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NEW QUESTION: 1

Which of the following technologies can be used to harden guest virtual machines?

- A. Containerization
- B. Network isolation
- C. Resource reservation
- D. vTPM

Answer: D (LEAVE A REPLY)

A virtual Trusted Platform Module (vTPM) is a technology that can be used to harden guest virtual machines by providing them with a secure cryptographic device. A vTPM can store encryption keys, certificates, and passwords, and can perform integrity checks on the guest operating system and applications. A vTPM can also enable features such as BitLocker and Credential Guard in Windows 10 virtual machines.

A: Containerization is a technology that can be used to isolate applications from the underlying operating system and hardware resources. Containerization does not directly harden guest virtual machines, but rather provides a lightweight alternative to virtualization.

B: Network isolation is a technology that can be used to separate network traffic between different virtual machines or groups of virtual machines. Network isolation can help prevent unauthorized access or attacks on guest virtual machines, but it does not harden them internally.

C: Resource reservation is a technology that can be used to guarantee a minimum amount of CPU, memory, disk, or network resources for a virtual machine or a group of virtual machines. Resource reservation can help improve the performance and availability of guest virtual machines, but it does not harden them against security threats.

D: vTPM is a technology that can be used to harden guest virtual machines by providing them with a secure cryptographic device. A vTPM can store encryption keys, certificates, and passwords, and can perform integrity checks on the guest operating system and applications.

Reference: CompTIA A+ Core 1 (220-1101) Certification Study Guide, page 3161.

NEW QUESTION: 2

Which of the following DNS records is used to look up the IP address assigned to a domain name?

- A. A
- B. MX
- C. NS
- D. SPF

Answer: A (LEAVE A REPLY)

A DNS record is a data entry in a DNS server that maps a domain name to a specific value, such as an IP address, a mail server, a name server, or a text string. There are different types of DNS records for different purposes, and each type has a specific format and syntax¹².

The A record, also known as the address record, is the most common type of DNS record, and it is used to look up the IP address assigned to a domain name. The A record maps a domain name to an IPv4 address, which is a 32-bit numerical value that identifies a device on the internet. For example, the A record for `www.google.com` is `172.217.14.206`¹².

The other options are not correct because they are not used to look up the IP address assigned to a domain name. The MX record, also known as the mail exchange record, is used to specify the mail servers that handle the email for a domain name. The MX record maps a domain name to a priority value and a host name of a mail server. For example, the MX record for `gmail.com` is `10 alt1.gmail-smtp-in.l.google.com`¹².

The NS record, also known as the name server record, is used to delegate a domain name to a set of authoritative name servers. The NS record maps a domain name to a host name of a name server that can provide authoritative answers for the domain name and its subdomains. For example, the NS record for `example.com` is `ns1.example.com`¹².

The SPF record, also known as the sender policy framework record, is used to prevent email spoofing and spamming by validating the sender's identity. The SPF record maps a domain name to a text string that specifies the authorized mail servers and IP addresses that can send email on behalf of the domain name. For example, the SPF record for `microsoft.com` is `v=spf1 include:spf.protection.outlook.com -all`¹².

References:

* DNS Configuration - CompTIA A+ 220-1101 - 2.6

* CompTIA A+ Certification Core 1 (220-1101) [Video] - Packt Subscription, Section 2: Networking, Video 2.6: DNS Configuration

* CompTIA A+ Certification Core 1 (220-1101) - GitHub, Slide Handout PDFs 1101, Chapter 2: Networking, Slide 2.6: DNS Configuration

NEW QUESTION: 3

A user calls the help desk about a 4K monitor that will not output an image from a desktop. The monitor was working previously but now shows a black screen with a message stating a signal is not detected. The desktop is connected via HDMI, and the monitor has an empty DVI port. Which of the following steps should the technician perform first?

(Select two).

- A. Check the version of the HDMI cable.
- B. Check the input source.
- C. Set up the desktop for DVI.
- D. Replace the HDMI cable.
- E. Install OS updates.
- F. Initiate a system restore.

Answer: A,B (LEAVE A REPLY)

The first steps that the technician should perform are A. Check the version of the HDMI cable and B. Check the input source.

A possible cause of the problem is that the HDMI cable is not compatible with the 4K resolution of the monitor. HDMI cables have different versions that support different features and bandwidths. For example, HDMI 1.4 supports up to 4K at 30 Hz, while HDMI 2.0 supports up to 4K at 60 Hz¹. The technician should check the version of the HDMI cable and make sure it matches the specifications of the monitor and the desktop.

Another possible cause of the problem is that the monitor is not set to the correct input source. The input source is the option that allows the monitor to switch between different video signals from different ports, such as HDMI, DVI, VGA, or DisplayPort². The technician should check the input source and make sure it is set to HDMI, since that is how the desktop is connected to the monitor. The input source can usually be changed using the buttons or menu on the monitor itself².

NEW QUESTION: 4

A technician is selecting RAM for a new high-end workstation. The motherboard has eight slots that support DDR5 memory. Which of the following should the technician do to optimize performance?

- A. Use the minimum number of modules.
- B. Increase the virtual RAM.
- C. Increase memory timings.
- D. Utilize all channels.

Answer: D (LEAVE A REPLY)

The best option that the technician should do to optimize performance is D. Utilize all channels. This option means that the technician should install the RAM modules in a way that maximizes the number of memory channels that are used by the motherboard. Memory channels are pathways that connect the memory controller to the RAM modules, and they allow data to be transferred between them. The more memory channels that are used, the higher the memory bandwidth and performance¹.

DDR5 memory supports up to eight memory channels per module, which is twice as many as DDR4².

However, not all motherboards can support eight channels per module, and some may only support four or two channels per module. Therefore, the technician should check the motherboard

specifications and manual to determine how many memory channels it supports and how to install the RAM modules accordingly.

For example, if the motherboard supports four channels per module, then the technician should install four RAM modules in slots 1, 3, 5, and 7 to use all 16 available channels. If the motherboard supports two channels per module, then the technician should install eight RAM modules in all slots to use all 16 available channels. If the technician installs fewer modules than the number of slots, then some channels will be left unused and the performance will be lower¹.

NEW QUESTION: 5

A technician is troubleshooting a wireless network issue. The users are all connected to the network, but the throughput is slow, and connections often drop. Which of the following should the technician check first?

- A. Encryption cipher
- B. Channel interference
- C. Number of connected devices
- D. Antenna type

Answer: (SHOW ANSWER)

The first thing that the technician should check when troubleshooting a wireless network issue with slow throughput and frequent connection drops is the channel interference. Channel interference is a common cause of poor Wi-Fi performance, as it occurs when multiple wireless networks or devices use the same or overlapping frequency bands, resulting in signal degradation, congestion, or collision. Channel interference can affect both 2.4 GHz and 5 GHz networks, but it is more likely to happen on the 2.4 GHz band, as it has fewer and narrower channels than the 5 GHz band.

To check for channel interference, the technician can use a Wi-Fi analyzer tool, such as the ones found in the web search results¹²³, to scan the wireless environment and identify the best channel to use for the network. A Wi-Fi analyzer tool can display various information, such as the network name (SSID), signal strength (RSSI), channel number, frequency, bandwidth, and security type. The technician can look for the following indicators of channel interference:

* High network density: If there are many wireless networks or devices in the vicinity, they may compete for the same or adjacent channels, causing interference and congestion. The technician can look for the number of networks or devices on each channel and avoid the crowded ones.

* Channel overlap: If there are wireless networks or devices that use the same or partially overlapping channels, they may interfere with each other and degrade the signal quality. The technician can look for the channel width and frequency of each network and avoid the overlapping ones. For example, on the

2.4 GHz band, the technician should use only the non-overlapping channels 1, 6, and 11, and avoid the channels in between.

* Signal interference: If there are other sources of electromagnetic radiation or noise that operate on the same or similar frequency bands as the wireless network, they may interfere with the wireless signals and cause distortion or loss. The technician can look for the signal strength and

quality of each network and avoid the ones that are weak or noisy. For example, some common sources of signal interference are microwave ovens, cordless phones, Bluetooth devices, or baby monitors.

To fix the channel interference issue, the technician can try the following solutions:

- * Change the channel of the wireless network: The technician can use the Wi-Fi analyzer tool to find the least congested and most optimal channel for the network, and then change the channel settings on the router or the access point. The technician should also consider using the 5 GHz band instead of the 2.4 GHz band, as it offers more and wider channels and less interference.
- * Relocate the router or the access point: The technician can move the router or the access point to a different location, away from potential sources of interference or obstacles that may block or weaken the wireless signals, such as walls, furniture, or metal objects. The technician should also place the router or the access point in a central and elevated position, to provide better coverage and signal quality for the network.
- * Upgrade the router or the access point: The technician can replace the router or the access point with a newer and more advanced model, that supports the latest Wi-Fi standards, such as Wi-Fi 6 (802.11ax) or Wi-Fi 5 (802.11ac). These standards offer higher data rates, lower latency, and better performance in dense and noisy environments, compared to the older standards, such as Wi-Fi 4 (802.11n) or Wi-Fi 3 (802.11g).

References:

- * How to Fix Wi-Fi Connection Drops - Lifewire4
- * How to Fix When Wi-Fi Keeps Disconnecting on Windows 115
- * How to Fix Wi-Fi Connection Drops - Lifewire6
- * How to Fix Wi-Fi Connection Drops - Lifewire7
- * How to Fix Wi-Fi Connection Drops - Lifewire8

NEW QUESTION: 6

Which of the following wireless technologies would a company most likely implement for inventory management?

- A. NFC
- B. 5G
- C. Bluetooth
- D. RFID

Answer: D ([LEAVE A REPLY](#))

RFD stands for Radio Frequency Identification, which is a technology that uses radio waves to identify and track objects that have RFID tags attached to them. RFID tags are small devices that store information and can be read by RFID readers without direct contact or line of sight. RFID can be used for inventory management, as it can provide real-time visibility and accuracy of the location, quantity, and status of the items in a warehouse, store, or supply chain .

NEW QUESTION: 7

Which of the following is the best environment for an engineer to use for research purposes?

- A. Host
- B. Sandbox
- C. Simulated production
- D. Cross-platform

Answer: B (LEAVE A REPLY)

A sandbox is a virtual environment that isolates the engineer's research activities from the rest of the system.

This allows the engineer to test, experiment, and modify the system without affecting the real data, applications, or settings. A sandbox is the best environment for research purposes because it provides a safe and controlled way to explore new ideas, simulate scenarios, and troubleshoot problems. A sandbox can also be easily reset or deleted after the research is done.

References

What is a Sandbox Environment?

Chapter 4: Virtualization and Cloud Computing

NEW QUESTION: 8

Which of the following network devices is needed to direct packets to networks outside of the LAN?

- A. Hub
- B. Switch
- C. Router
- D. Bridge

Answer: C (LEAVE A REPLY)

A router is a network device that connects multiple networks together and directs data packets to their intended destinations. This includes directing packets to networks outside of the local area network (LAN). Routers use routing tables to determine the best path for data packets to travel. Hubs and switches operate within a single LAN and are not capable of routing packets to external networks.

Bridges can connect two LANs together, but they do not have the intelligence to route packets to external networks.

Therefore, only routers are capable of directing packets to networks outside of the LAN.

References:

CompTIA A+ Certification Core 1 220-1101 Study Guide, Chapter 4: Networking, Section 4.1
Networking Fundamentals

NEW QUESTION: 9

A systems administrator hears a clicking noise coming from a storage array that has a RAID configuration. No LEDs are illuminated on the array but the logs show several hard drive errors. Which of the following should the systems administrator do to quickly eliminate the clicking?

- A. Reinstall the drive.
- B. Replace the bad drive.

- C. Reset the RAID software
- D. Run a chkdek on the drive.

Answer: (SHOW ANSWER)

The correct answer is B. Replace the bad drive.

A clicking noise coming from a hard drive is a sign of a mechanical failure, which can cause data loss or corruption. Replacing the bad drive as soon as possible is the best way to prevent further damage and restore the RAID array to a healthy state. Reinstalling the drive, resetting the RAID software, or running a chkdek on the drive will not fix the underlying hardware problem and may even worsen the situation. Therefore, option B is the correct answer.

References:

- * CompTIA A+ Core 1 (220-1101) Certification Study Guide, page 131: "Clicking noises indicate that the hard drive is failing mechanically."
- * RAID configuration on Linux - Amazon Elastic Compute Cloud, section "Replace a failed volume in a RAID 0 array": "If one of the volumes in your RAID 0 array fails, you must replace it as soon as possible to avoid data loss."

NEW QUESTION: 10

A classroom projector, which is turned on, displays a flashing LED code but does not have any video output.

Which of the following should a technician do to resolve the issue?

- A. Replace the bulb.
- B. Adjust the input resolution_
- C. Clean the air filter.
- D. Change the input source.

Answer: C (LEAVE A REPLY)

The answer is C. Clean the air filter.

A flashing LED code on a projector usually indicates a problem with the projector's hardware, such as the lamp, the fan, the temperature sensor, or the air filter. According to the web search results, some possible causes and solutions for this problem are:

- * Projector is too hot: Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects. Clean or replace the air filter. Make sure the environmental temperature is not too hot¹².
- * Projector has overheated and turned off: Leave it turned off to cool down for five minutes. Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects. Clean or replace the air filter. If operating the projector at high altitude, turn on High Altitude Mode¹².
- * Low air flow through the projector or air filter: Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects. Clean or replace the air filter¹².

References:

- * Projector Light Status
- * Projector Light Status

NEW QUESTION: 11

An administrator is responding to a network server outage. The administrator has logged in to the server to troubleshoot the outage. Which of the following is the first step the administrator should take when attempting to troubleshoot the issue?

- A. Document the results.
- B. Analyze the error logs.
- C. Check the physical connections.
- D. Upgrade the server firmware.

Answer: B (LEAVE A REPLY)

The correct answer is B. Analyze the error logs.

Error logs are files that record the events and errors that occur on a server or a network device. They can provide valuable information about the cause and the time of the outage, as well as any warnings or alerts that preceded it. Analyzing the error logs can help the administrator narrow down the possible sources of the problem and identify the best course of action to resolve it. The first step in troubleshooting a network is to identify the problem¹. As a part of this step, the administrator should gather information about the current state of the network using the network troubleshooting tools that are available¹. One of these tools is the error log viewer, which can be accessed through the server's operating system or a network monitoring software. The administrator should look for any entries that indicate a failure, a crash, a timeout, or an exception in the error logs. The administrator should also note the date and time of the entries, as well as the severity and the frequency of the errors.

The other options are less likely to be the first step in troubleshooting, because:

*Documenting the results is an important step in troubleshooting, but it should be done after identifying and resolving the problem, not before. Documenting the results can help the administrator keep track of the actions taken, the changes made, and the outcomes achieved. It can also help prevent future problems by providing a reference for best practices and lessons learned¹.

*Checking the physical connections is another important step in troubleshooting, but it should be done after analyzing the error logs, not before. Physical connections are the cables and ports that link the server to other devices on the network. They can affect the quality and stability of the network signal. If the error logs do not indicate any software or configuration issues, then checking the physical connections can help determine if there is any damage or interference in the hardware².

*Upgrading the server firmware is a possible solution for some network problems, but it should not be done as a first step in troubleshooting, unless there is a clear indication that the firmware is outdated or corrupted.

Firmware is a type of software that controls the basic functions of a hardware device. Upgrading the firmware can improve performance, security, and compatibility, but it can also introduce new bugs or conflicts with other software or hardware components. Therefore, upgrading the firmware should be done with caution and only after backing up data and settings³.

For more information and tips on how to troubleshoot network issues, you can visit these links:

*A Guide to Network Troubleshooting - CompTIA

*What is Network Troubleshooting? How to Fix Network Issues - SolarWinds

*Network Troubleshooting - Methodology, Steps & Techniques - DNSstuff

NEW QUESTION: 12

A user reports a monitor, keyboard, mouse, and headset are no longer functioning. The user has restarted the laptop and tested an alternative headset and monitor, but the issue persists. The technician notices the user has a printer, USB-C hub, and AC adapter plugged into the laptop. Which of the following should the technician do to MOST likely resolve the issue?

- A. Verify the AC adaptor voltage.
- B. Repair the operating system.
- C. Replace the user's USB-C hub.
- D. Reinstall the drivers for affected devices.
- E. Make sure the printer is not drawing too much power.

Answer: C (LEAVE A REPLY)

The most likely cause of the issue is that the user's USB-C hub is faulty or incompatible with the laptop. The USB-C hub is a device that allows the user to connect multiple peripherals to the laptop using a single USB-C port. If the hub is not working properly, it may prevent the monitor, keyboard, mouse, and headset from functioning. The technician should replace the user's USB-C hub with a new one that is compatible with the laptop and test the peripherals again. Verifying the AC adapter voltage will not help with the issue, as the AC adapter is used to power the laptop, not the peripherals. Repairing the operating system will not help either, as the issue is not related to software. Reinstalling the drivers for affected devices may not help, as the issue may be caused by the hub, not the devices. Making sure the printer is not drawing too much power is irrelevant, as the printer is not connected to the hub or affecting the other peripherals. References: <https://www.comptia.org/blog/what-is-usb-c>

NEW QUESTION: 13

A user working in the field reported the GPS stopped working on a phone. The user's older, in-car GPS continued to function. Later, the user reported that the phone's GPS started working again. Which of the following MOST likely caused the phone's GPS to fail?

- A. The cell phone was in conservation mode
- B. The cell phone had lost service to the carrier
- C. The cell phone received a firmware update
- D. The cell phone had overheated

Answer: B (LEAVE A REPLY)

The phone's GPS may fail due to a loss of service from the carrier, which provides the phone with GPS location data. The fact that the in-car GPS continued to function suggests that the issue was related to the phone, not the GPS satellites. References: CompTIA A+ Certification Study Guide, Tenth Edition, pg. 372

NEW QUESTION: 14

Which of the following best describes metered utilization for cloud computing?

- A. Cloud resources are billed to clients based on usage.
- B. Cloud resources are shared with other companies conducting similar business.
- C. Cloud resources are available at a fixed amount for a fixed price.
- D. Cloud resources are located in the on-site data center.

Answer: A (LEAVE A REPLY)

Metered utilization for cloud computing is a pricing model where cloud service providers charge clients based on the amount of resources they consume, such as network bandwidth, storage space, CPU cycles, or memory.

This allows clients to pay only for what they use, rather than a fixed amount or a subscription fee. Metered utilization can also enable clients to scale their cloud resources up or down according to their needs and demand.

References: The following web search results provide more information about metered utilization for cloud computing:

- * Understanding Metered Billing For Cloud Infrastructure - Togai: This article explains the concept of metered billing, its advantages, and how it works for cloud infrastructure services.
- * Usage Metering and Throttling in Cloud Computing: This article discusses the importance of metering and throttling in cloud computing, and how they are implemented in WSO2 Stratos, a cloud platform as a service (PaaS) solution.
- * Cloud Volumes Service Metered Billing: Control Your Cloud ... - NetApp: This article describes how NetApp's Cloud Volumes Service offers metered billing for cloud storage, and how it can help clients reduce their cloud costs and optimize their performance.

NEW QUESTION: 15

A user visits the desk to report that a smartphone takes more than a day to fully charge. The user has already tested multiple wall outlets and swapped the charging cable, but the results are the same. Which of the following should the technician do FIRST?

- A. Verify the power rating of the charger.
- B. Ensure all unnecessary connectivity features are disabled.
- C. Check that all missing smartphone OS updates are applied.
- D. Complete a factory reset of the phone

Answer: (SHOW ANSWER)

A smartphone that takes more than a day to fully charge may be due to a charger that is not powerful enough. The technician should verify that the charger is rated for the smartphone's battery capacity and that it is providing the correct voltage and amperage¹²³.

NEW QUESTION: 16

An administrator needs to configure RAID for a video-rendering workstation at minimal cost. The solution should have high read/write performance and maximum drive storage utilization.

Redundancy is not a concern. Which of the following RAID configurations should the administrator use?

- A. 0
- B. 1
- C. 5
- D. 10

Answer: (SHOW ANSWER)

The administrator should use RAID 0 for a video-rendering workstation at minimal cost. RAID 0, also known as striping, is a RAID configuration that splits data evenly across two or more disks, without parity information, redundancy, or fault tolerance. RAID 0 has the following advantages and disadvantages:

* High read/write performance: RAID 0 can increase the data transfer rate by using multiple disks in parallel. This can improve the speed and efficiency of video rendering, which involves processing large amounts of data. RAID 0 can also reduce the latency and seek time of the disks, as the data is distributed across multiple spindles.

* Maximum drive storage utilization: RAID 0 can use the full capacity of the disks, without wasting any space for parity or mirroring. This can lower the cost and increase the storage space for the workstation.

For example, if two 500 GB disks are used in RAID 0, the total capacity of the array will be 1000 GB.

* No redundancy or fault tolerance: RAID 0 does not provide any protection against data loss or disk failure. If one disk fails, the entire array will fail and the data will be unrecoverable. Therefore, RAID 0 should only be used for non-critical data that is backed up elsewhere, or for temporary files that can be recreated.

References:

- * Standard RAID levels - Wikipedia¹
- * RAID Levels and Types Explained: Differences and Benefits of Each²
- * RAID Level Comparison Table | RAID Data Recovery Services³

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NEW QUESTION: 17

A technician needs to configure a printer for network communications Which of the following must the technician configure? (Select THREE).

- A. PCL
- B. Dots per Inch
- C. Gateway
- D. Subnet mask
- E. MAC address
- F. IMEI
- G. IP address
- H. Drivers

Answer: C,D,G (LEAVE A REPLY)

To configure a printer for network communications, the technician must configure its network settings, such as gateway, subnet mask, and IP address. The gateway is the IP address of the router or device that connects the printer to other networks or the internet. The subnet mask is a value that defines which part of the IP address identifies the network and which part identifies the host or device on that network. The IP address is a unique identifier that allows the printer to communicate with other devices.

NEW QUESTION: 18

A technician is setting up a new desktop computer and will be installing the hard drive directly on the motherboard without using cables to connect it. Which of the following will the technician be installing?

- A. Thunderbolt
- B. eSATA
- C. M.2
- D. SCSI

Answer: C (LEAVE A REPLY)

M.2 is a form factor for solid-state drives (SSDs) that enables direct attachment to the motherboard without the need for cables. Thunderbolt is a high-speed interface that supports data transfer, video output, and charging.

eSATA is an external interface for connecting SATA devices. SCSI is an older interface standard for connecting hard drives, printers, and other peripherals.

Installing a hard drive directly on the motherboard without using cables is usually done with an M.2 slot.

References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 5

NEW QUESTION: 19

An integrated webcam on a user's laptop broke, so a technician installed a temporary, external webcam. Since the external webcam installation, other users can only see part of the user's face during videoconferences.

Which of the following BEST describes the reason for this issue?

- A. The webcam is not on a level surface.
- B. The webcam driver should be updated.

- C. The webcam is plugged into the wrong USB port.
- D. The webcam is not compatible with the OS.

Answer: ([SHOW ANSWER](#))

The most likely reason for the issue is that the webcam is not on a level surface, which causes the camera angle to be distorted. The user should adjust the position of the webcam so that it is aligned with the laptop screen and captures the user's face fully. The other options are not relevant to this issue, as they would not affect the camera angle or visibility of the user's face.

Verified References: [How to Position Your Webcam Correctly](#).

NEW QUESTION: 20

A technician needs to upgrade the power supply of a workstation that contains a high-end graphics card, 16 hyperthreaded cores, and multiple hard drives. Which of the following should the technician use to determine the appropriate power supply for the workstation?

- A. The manufacturer's specifications for the components
- B. The wattage of the current power supply
- C. The wattage of the motherboard
- D. The capacity of the hard drives
- E. The number of hyperthreaded cores

Answer: A ([LEAVE A REPLY](#))

The manufacturer's specifications for the components are the best source of information to determine the appropriate power supply for the workstation. The manufacturer's specifications will list the power requirements and recommendations for each component, such as the graphics card, the CPU, the hard drives, and the motherboard. By adding up the power consumption of each component, the technician can estimate the total wattage needed for the workstation. The technician should also consider some extra headroom for future upgrades or peak loads. The technician can then choose a power supply that meets or exceeds the total wattage and has the right connectors and form factor for the workstation.

NEW QUESTION: 21

A user reports that all print jobs sent to a laser printer have random and incorrect characters throughout the pages. Which of the following actions should the technician do to resolve this issue?

- A. Replace the fuser.
- B. Adjust the rollers.
- C. Update the driver.
- D. Shake the toner

Answer: C ([LEAVE A REPLY](#))

One of the possible causes of random and incorrect characters appearing on print jobs sent to a laser printer is an outdated or corrupted driver. The driver is a software component that communicates between the operating system and the printer, and converts data into a format that the printer can understand. If the driver is outdated or corrupted, it may send incorrect or garbled

data to the printer, resulting in poor print quality or errors. The technician should update the driver to the latest version from the manufacturer's website, or uninstall and reinstall it if necessary.

Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 47)

NEW QUESTION: 22

A team is having Issues With paper jams on a printer that the team shares With other teams. The team that IS having Issues prints legal-sized documents, and the other teams print letter-sized documents. Which of the following is most likely the issue?

- A. Worn rollers
- B. Page orientation
- C. Tray settings
- D. Multipage misfeed

Answer: C (LEAVE A REPLY)

The most likely issue is C. Tray settings.

Tray settings are the configuration options that tell the printer what type and size of paper is loaded in each tray. If the tray settings do not match the actual paper loaded, it can cause paper jams, misalignment, or incorrect printing. For example, if the printer expects letter-sized paper (8.5 x 11 inches) but the tray contains legal-sized paper (8.5 x 14 inches), the printer may try to pull more paper than it needs, resulting in a jam.

To fix this issue, the team should check and adjust the tray settings according to the paper they are using. They should also make sure that the paper is loaded correctly and not overfilled or mixed with different sizes or types of paper. Some printers have a manual feed option that allows users to select the paper size and type before printing, which can prevent paper jams from occurring.

References:

*Fix Paper Jam Errors | HP Support, section "Paper jams".

*Common Causes of Paper Jams and How to Fix Them - 1ink.com, section "Make Sure You're Loading the Paper Correctly".

*How to Fix a Paper Jam in a Printer - Computer Hope, section "Paper tray is overloaded or not loaded correctly".

NEW QUESTION: 23

A technician recently received a written warning for causing a system-wide outage. The outage was a result of an unscheduled patch being manually pushed during production hours. Which of the following could have MOST likely prevented the technician from receiving the warning?

- A. Following corporate procedures
- B. Testing before deployment
- C. Documenting the findings
- D. Establishing a plan of action

Answer: A (LEAVE A REPLY)

Following corporate procedures would have been the most likely factor that could have prevented the technician from receiving the written warning. Following established procedures, such as change management, helps ensure that changes made to the production environment are thoroughly tested, approved, and implemented in a controlled and safe manner, reducing the risk of system-wide outages and other unintended consequences.

NEW QUESTION: 24

A user reports intermittent connectivity. The technician checks the network logs and sees the following output:

```
Interface 0/1 Status Up
Interface 0/1 Status Down
Interface 0/1 Status Up 13:03:20
Interface 0/1 Status Down 13:04:10
Switch elected as Root bridge
Interface 0/1 Status Up 13:05:40
```

Which of the following is the most likely reason for this issue?

- A. External interference
- B. High latency
- C. Jitter
- D. Port flapping

Answer: D (LEAVE A REPLY)

Port flapping, also known as link flapping, is a situation in which a physical interface on the switch continually goes up and down, causing intermittent connectivity for the devices connected to that port¹². Port flapping can be caused by various factors, such as faulty or incompatible cables, hardware issues, configuration errors, or other network problems¹²³.

The network logs show that interface 0/1 on the switch changes its status from up to down and vice versa several times within a short period of time. This indicates that the port is flapping and affecting the network connectivity. The log also shows that the switch was elected as the root bridge, which means that it is the central point of a spanning tree protocol (STP) network. STP is a protocol that prevents loops in a network by blocking some ports and creating a tree-like topology. Port flapping can cause STP to recalculate the topology and change the status of the ports, which can further disrupt the network performance².

To troubleshoot port flapping, the technician should check the physical and hardware aspects of the device, such as cables, SFPs, gigabit interface converters, and power supplies. The technician should also check the configuration settings of the port, such as auto-negotiation, duplex mode, speed, power-saving features, and smartport. The technician should also check for other network issues that may cause port flapping, such as link synchronization and spanning tree issues¹²³.

NEW QUESTION: 25

A technician is relocating a router access point farther away from the modem to optimize signal coverage for a SOHO client. Which of the following will the technician most likely use to complete the relocation? (Select two).

- A. Punchdown tool
- B. Crimper
- C. Clamp-style wire stripper
- D. Network tap
- E. Wi-Fi analyzer
- F. Loopback plug

Answer: B,E (LEAVE A REPLY)

A crimper is a tool that is used to attach connectors to network cables, such as RJ-45 or RJ-11. A technician might need a crimper to create a longer cable for the router access point or to replace a damaged connector.

A Wi-Fi analyzer is a software or hardware tool that can scan and measure the wireless signal strength, interference, channel usage, and security of a Wi-Fi network. A technician might need a Wi-Fi analyzer to find the optimal location and configuration for the router access point to improve the signal coverage for the SOHO client.

References

*[CompTIA A+ Core 1 (220-1001) Certification Study Guide], page 77

*[CompTIA A+ Core 1 (220-1001) Certification Study Guide], page 82

*[What is a Crimper?]

*[What is a Wi-Fi Analyzer?]

NEW QUESTION: 26

A SOHO customer would like to purchase network hardware to enhance security. The hardware should perform stateful packet inspection. Which of the following would BEST address the customer's need?

- A. Switch
- B. Firewall
- C. Router
- D. Proxy

Answer: (SHOW ANSWER)

A firewall is a network device that performs stateful packet inspection, which means it analyzes incoming and outgoing network traffic based on predefined rules and filters, and allows or blocks packets based on their source, destination, protocol, port, or content. A firewall can enhance security by preventing unauthorized access, blocking malicious traffic, enforcing policies, and logging events. A firewall can be hardware-based or software-based, or a combination of both.

Reference:

<https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 78)

NEW QUESTION: 27

A user's touch-screen tablet is having an issue with the screen orientation. Which of the following is MOST likely causing this issue?

- A. The screen rotation is locked
- B. The screen protector on the tablet is damaged
- C. The touch-screen digitizer is malfunctioning
- D. The inverter is misconfigured

Answer: A (LEAVE A REPLY)

The screen rotation is locked. If a user's touch-screen tablet is having an issue with screen orientation, it could be due to screen rotation being locked in device settings.

If the screen rotation is locked, the touch-screen tablet will not rotate the screen when the device is turned.

This can usually be unlocked in the settings or by pressing a specific key combination.

References:

<https://www.howtogeek.com/254132/how-to-enable-screen-rotation-on-windows-10/>

NEW QUESTION: 28

A small office has a wireless network with several access points for roaming laptop use. Users occasionally report that the wireless connection drops or becomes very slow. Users have confirmed that this issue only happens when connected to the office wireless network. Which of the following would MOST likely be the cause?

- A. Hidden SSID
- B. Device interference
- C. Ethernet port flapping
- D. High ISP latency

Answer: (SHOW ANSWER)

Device interference is the most likely cause of the wireless connection dropping or becoming slow.

Interference can come from other wireless devices, microwave ovens, or physical barriers like walls and metal objects. Hidden SSID, Ethernet port flapping, and high ISP latency are not likely to cause this issue.

Wireless interference from other devices can cause a drop in wireless connection speed and stability. In a small office environment, there may be several wireless devices competing for the same bandwidth, causing the issues described. References: CompTIA A+ Certification Exam Core 1 Exam Objectives - 3.7 Given a scenario, troubleshoot wired and wireless networks with appropriate tools

NEW QUESTION: 29

A user is requesting a headset that can be physically connected to a laptop for online conference calls. Which of the following connections should the headset use?

- A. Bluetooth
- B. DVI

C. Thunderbolt

D. USB

Answer: (SHOW ANSWER)

A USB (universal serial bus) connection is the most suitable option for a headset that can be physically connected to a laptop for online conference calls. A USB connection is a digital interface that can transfer both power and data between devices using a standard cable. A USB headset can plug into any available USB port on the laptop and communicate with the audio and microphone drivers without requiring additional software or hardware. A USB headset can also offer enhanced features, such as inline controls, noise cancellation, surround sound, or LED lighting, depending on the model and manufacturer.

Other connections, such as Bluetooth, DVI, or Thunderbolt, are not appropriate for a headset that can be physically connected to a laptop. Bluetooth is a wireless technology that uses radio waves to pair devices over a short distance, and it requires a battery or a charger for the headset. DVI (digital visual interface) is a video interface that can transmit digital or analog signals between a display device and a video source, and it is not compatible with audio or microphone devices. Thunderbolt is a high-speed interface that can support multiple protocols, such as DisplayPort, USB, or PCI Express, and it requires a special cable and port that may not be available on all laptops.

References:

- * How to set up and use a headset on Windows 10 | Windows Central1
- * How to Connect a Headset to a Computer2
- * USB - Wikipedia

NEW QUESTION: 30

A user reports that a printer is leaving streaks on printed pages. The paper type and the toner have been replaced. Which of the following should the technician check NEXT to resolve the issue?

- A. System board
- B. Paper tray
- C. Memory
- D. Fuser

Answer: D (LEAVE A REPLY)

This is because the fuser is the part of the printer that heats and melts the toner onto the paper. If the fuser is defective or dirty, it can cause streaks or smudges on printed pages. The system board and the memory are not related to the quality of the print output. The paper tray may cause paper jams or misfeeds, but not streaks on the paper.

NEW QUESTION: 31

Which of the following handles touch-screen operation on a mobile device?

- A. Stylus
- B. Liquid crystal display

C. Processor

D. Digitizer

Answer: (SHOW ANSWER)

A digitizer is a component that handles touch-screen operation on a mobile device. It is a layer of material that detects and converts the touch of a finger or a stylus into an electrical signal that can be processed by the device¹². A digitizer works with a display screen to create a touch-screen interface that allows a user to interact with the device by touching pictures or words on the screen.

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NEW QUESTION: 32

An administrator is using an RJ45 connector to terminate a network cable. Which of the following cables is the administrator terminating?

A. Optical

B. Serial

C. Cat 6

D. USB

Answer: C (LEAVE A REPLY)

The correct answer is C. Cat 6.

An RJ45 connector is a standard type of physical connector for network cables. RJ45 connectors are used almost exclusively with Ethernet cables and networking¹. Ethernet cables are twisted pair cables that carry data signals between devices on a network, such as computers, routers, switches, and servers².

There are different categories of Ethernet cables, such as Cat 5, Cat 5e, Cat 6, and Cat 7, that have different specifications and performance levels. Cat 6 is one of the most common types of Ethernet cables, which supports data transfer speeds up to 10 Gbps and bandwidth up to 250 MHz³. Cat 6 cables have four pairs of copper wires, each with a plastic insulation and a foil or braided shield. The wires are twisted together to reduce crosstalk and interference⁴.

To terminate a Cat 6 cable, an administrator needs to use an RJ45 connector that matches the wiring scheme of the cable. There are two common wiring schemes for Ethernet cables: T568A and T568B. The administrator needs to strip the cable jacket, untwist the wires, arrange them in the correct order according to the chosen scheme, trim the excess wire, and insert them into the

RJ45 connector. Then, the administrator needs to use a crimping tool to secure the wires and the connector⁴.

Optical cables are not terminated with RJ45 connectors, but with different types of connectors that can transmit light signals, such as SC, ST, LC, or MTRJ connectors. Optical cables are used for fiber-optic networks that can carry data over long distances at high speeds.

Serial cables are not terminated with RJ45 connectors, but with different types of connectors that can transmit serial data signals, such as DB9, DB25, or DE9 connectors. Serial cables are used for connecting devices that use serial communication protocols, such as modems, printers, scanners, or keyboards.

USB cables are not terminated with RJ45 connectors, but with different types of connectors that can transmit universal serial bus data signals, such as USB-A, USB-B, USB-C, or Micro-USB connectors. USB cables are used for connecting devices that use USB communication protocols, such as flash drives, cameras, mice, or chargers.

NEW QUESTION: 33

A user's laptop keyboard is not working properly. A technician notices that when the keys for special characters are pressed, other characters appear instead. Which of the following should the technician do first to diagnose the issue?

- A. Check the keyboard layout.
- B. Replace the keyboard.
- C. Update the keyboard drivers.
- D. Change the keyboard language.

Answer: A (LEAVE A REPLY)

The first thing that the technician should do to diagnose the issue is A. Check the keyboard layout.

The keyboard layout is the arrangement of the keys and symbols on the keyboard, which can vary depending on the language, region, or standard. If the keyboard layout is not set correctly, it can cause the keys to produce different characters than expected. For example, if the keyboard layout is set to French, pressing the key for @ will produce a instead.

To check and change the keyboard layout, the technician can follow these steps:

*On Windows 10, click on the Start menu and select Settings.

*Click on Time & Language and then on Language.

*Under Preferred languages, click on the current language and then on Options.

*Under Keyboards, check if the keyboard layout matches the physical keyboard. If not, click on Add a keyboard and select the correct layout. Alternatively, click on Remove to delete any unwanted layouts.

*To switch between keyboard layouts, use the shortcut Windows key + Space bar.

Checking the keyboard layout can help identify and fix the issue quickly and easily, without requiring any hardware or software changes. Therefore, it is the best first step to diagnose the issue.

References:

NEW QUESTION: 34

A user is having an issue with the touch screen on a mobile device. When the user touches the screen, the intended target is not selected. Which of the following would be the BEST action for a technician to take to resolve the issue?

- A. Calibrate the touch screen.
- B. Reset the mobile device.
- C. Replace the LED screen.
- D. Update the mobile device.

Answer: A (LEAVE A REPLY)

Calibrating the touch screen is the best action to resolve the issue of inaccurate touch input. Calibration adjusts the touch screen's sensitivity and alignment to match the user's touch. Resetting the mobile device could erase user data and settings and may not fix the touch screen issue. Replacing the LED screen or updating the mobile device are unnecessary and costly actions that may not solve the problem.

NEW QUESTION: 35

A technician is receiving reports that the entire office sporadically loses network connectivity throughout the day. The technician determines the root cause to be EMI. Which of the cable mediums would be the MOST cost effective without sacrificing system performance?

- A. Coaxial
- B. Shielded Cat 6
- C. Plenum Cat 5e
- D. Multimode fiber

Answer: (SHOW ANSWER)

Electromagnetic interference (EMI) is unwanted noise or interference in an electrical path or circuit caused by an outside source. Hence shielded Cat 6 is better. If a technician determines that the root cause of sporadic network connectivity issues is EMI, the most cost-effective cable medium that can be used without sacrificing system performance is shielded Cat 6 cable. Shielded cables protect against electromagnetic interference (EMI) and radio frequency interference (RFI).

References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition by Mike Meyers (Page 548)

NEW QUESTION: 36

A user takes a tablet to a technician because the cursor on it keeps drifting. The technician notices the screen does not appear to be damaged. Which of the following is the MOST likely cause of the cursor issue?

- A. The screen is physically damaged.

- B. The screen rotation is incorrect.
- C. The touch-pen battery is depleted.
- D. The screen needs to be recalibrated.

Answer: D (LEAVE A REPLY)

The most likely cause of the cursor issue is that the screen needs to be recalibrated. This can happen when the tablet is used for a long time or when the tablet is dropped or bumped. Recalibrating the screen will help the tablet recognize the touch input more accurately¹².

NEW QUESTION: 37

A user brings an older laptop to the help desk and reports issues with the keyboard. Upon inspection, the technician does not see any external damage but notices that many keystrokes do not register in a word processor. The laptop works fine when the technician tests it with an external keyboard. Which of the following actions would MOST likely resolve the issue?

- A. Disable the sticky keys feature.
- B. Clean the keyboard.
- C. Reset the BIOS settings to default.
- D. Charge the laptop.

Answer: B (LEAVE A REPLY)

The most likely action that would resolve the issue is to clean the keyboard. Sometimes dust, hair, and other debris can affect keyboard functionality. The technician can try to clean the keyboard as much as possible, which may be enough to get the keyboard back in working order.

NEW QUESTION: 38

A technician is implementing a SOHO wireless solution with three access points. Which of the following actions would avoid high latency?

- A. Enabling and configuring a 5GHz antenna
- B. Configuring separate IP ranges
- C. Enabling multiple SSIDs
- D. Configuring all devices with different channels

Answer: D (LEAVE A REPLY)

If a technician is implementing a SOHO wireless solution with three access points and wants to avoid high latency, the technician should configure all devices with different channels. By configuring all devices with different channels, the technician can ensure that the wireless signals from each access point do not interfere with each other, which can cause high latency.

NEW QUESTION: 39

A user's laptop is running out of disk space and requires a new hard drive. The user wants to replace the existing hard drive with the fastest possible 1 TB HDD. A technician assesses the user's hardware and determines the connections that are available. Which of the following drive types should the technician recommend as the BEST choice?

- A. 1TB NVMe SSD

- B. 1TB flash drive
- C. 1TB SATA SSD
- D. 1TB SAS

Answer: A (LEAVE A REPLY)

The best choice for the user's laptop is a 1TB NVMe SSD. NVMe (Non-Volatile Memory Express) is a high-performance storage protocol designed specifically for solid-state drives (SSDs). It is significantly faster than SATA SSDs and SAS hard drives, making it ideal for users who need fast storage for their laptop. NVMe SSDs also have lower latency and higher bandwidth than traditional hard drives, making them well-suited for data-intensive tasks such as video editing, gaming, and running multiple applications simultaneously.

Additionally, NVMe offers more reliable data reliability than traditional hard drives, and is less susceptible to performance degradation over time.

NEW QUESTION: 40

A technician is troubleshooting intermittent fuzzy video on a computer using a VGA to DisplayPort adapter to connect to a monitor. The monitor with a VGA connector was previously working fine for another user. The technician replaces the adapter; however, the issue persists. Which of the following should the technician do NEXT?

- A. Use another brand of VGA to DisplayPort adapter.
- B. Research the issue further and formulate a new hypothesis to test.
- C. Ask the user additional clarifying questions regarding the issue.
- D. Document the action taken and the outcome.

Answer: C (LEAVE A REPLY)

<https://spryzensecurity.medium.com/what-is-troubleshooting-methodology-40cec6b6494> The technician should ask the user additional clarifying questions regarding the issue. This will help to identify any other potential causes of the issue, such as software configuration or compatibility issues, before attempting any further troubleshooting steps.

NEW QUESTION: 41

A technician is preparing to set up a gaming computer with the following components:

- * Discrete, high-end graphics card
- * Video capture card
- * High-end processor
- * Multiple hard drives
- * USB 3.0 hub
- * Sound card

Which of the following options is the MOST important for the technician to consider before building the gaming computer?

- A. Redundant power supply
- B. Modular power supply
- C. 20-pin vs. 24-pin power adapter

D. Power supply wattage rating

Answer: (SHOW ANSWER)

This is because high-end graphics cards, processors, and multiple hard drives require a significant amount of power to operate. A power supply with insufficient wattage could cause stability issues or even damage the components.

The CompTIA A+ Core1 certification guide emphasizes the importance of selecting an appropriate power supply for a computer build. In addition to wattage, other factors to consider when selecting a power supply include efficiency, modularity, and the number and type of connectors required to power the components.

However, of the options listed, the wattage rating is the most critical consideration.

Therefore, the technician should ensure that the power supply they select has a wattage rating that is sufficient to power all the components in the gaming computer. It is always a good practice to select a power supply with a wattage rating that exceeds the estimated power usage of t

NEW QUESTION: 42

A customer reports a network connectivity issue. A technician discovers that LAN ports have been damaged during remodeling. Which of the following tools should the technician use to fix the issue?

- A. Cable stripper
- B. Punchdown tool
- C. Crimper
- D. Network tap

Answer: B (LEAVE A REPLY)

The correct answer is B. Punchdown tool.

A punchdown tool is a device that can connect wires to a patch panel or a network jack by inserting them into the appropriate slots and cutting off the excess. A punchdown tool can be used to fix the damaged LAN ports by replacing the wires or reconnecting them to the correct terminals.

A cable stripper is a device that can remove the insulation from a cable to expose the wires inside. A cable stripper is not useful for fixing the damaged LAN ports, unless the technician needs to strip new wires before punching them down.

A crimper is a device that can attach connectors to the ends of cables, such as RJ-45 or RJ-11. A crimper is not useful for fixing the damaged LAN ports, unless the technician needs to replace the connectors on the cables.

A network tap is a device that can monitor and capture network traffic by creating a copy of the data passing through a network link. A network tap is not useful for fixing the damaged LAN ports, as it does not affect the connectivity of the network devices.

Reference: CompTIA A+ Certification Exam Core 1 Objectives

NEW QUESTION: 43

A technician is configuring a desktop computer, and the hard drive must be encrypted. Which of the following will the technician need to verify is enabled to complete this configuration?

- A. ATX
- B. NIC
- C. TPM
- D. ARM

Answer: C (LEAVE A REPLY)

TPM stands for Trusted Platform Module, which is a hardware component that securely stores encryption keys and other sensitive data¹². TPM can be used to enable hard drive encryption, which is a technology that encrypts the data stored on a hard drive using sophisticated mathematical functions³⁴. Hard drive encryption protects the data from unauthorized access in case the hard drive is lost, stolen, or tampered with.

NEW QUESTION: 44

A user needs to connect a laptop to the internet while traveling on a train. Which of the following features should be enabled on the user's phone?

- A. Bluetooth
- B. Near-field communication
- C. Hotspot
- D. Roaming

Answer: C (LEAVE A REPLY)

A hotspot is a feature that allows a phone to share its cellular data connection with other devices via Wi-Fi, Bluetooth, or USB. This can be useful when traveling on a train, where Wi-Fi networks may not be available or reliable. A hotspot can provide internet access to a laptop or other devices that need to connect to the web.

Bluetooth is a wireless technology that allows devices to communicate over short distances, usually within 10 meters. It can be used to pair devices such as headphones, speakers, keyboards, mice, etc. However, it cannot be used to share internet access from a phone to a laptop.

Near-field communication (NFC) is a wireless technology that allows devices to exchange data by touching or bringing them close together, usually within 4 cm. It can be used for applications such as contactless payments, smart cards, digital tickets, etc. However, it cannot be used to share internet access from a phone to a laptop.

Roaming is a feature that allows a phone to use another carrier's network when the home network is not available. This can be useful when traveling abroad, where the home network may not have coverage or agreements with local operators. However, roaming can incur additional charges and may not provide the same speed or quality of service as the home network.

Roaming does not affect the ability of the phone to share internet access with other devices via hotspot.

NEW QUESTION: 45

A technician is replacing a ribbon on a printer that produces faded text and Images when priming. Which of the following types of primers is the technician working on?

- A. Impact
- B. Inkjet
- C. Laser
- D. Thermal

Answer: A (LEAVE A REPLY)

An impact printer is a type of printer that uses a ribbon to produce text and images on paper. If an impact printer is producing faded text and images when printing, it could be due to a worn-out ribbon that needs to be replaced. The technician would need to replace the ribbon on the impact printer to resolve the issue.

A ribbon is a consumable component used in impact printers that uses a cloth or plastic strip coated with ink to produce text and images on paper. Examples of impact printers include dot matrix printers and line printers.

References: Study Guide Section 4.6 - Printer technologies

NEW QUESTION: 46

Which of the following are benefits of application virtualization? (Select two).

- A. The network works more quickly.
- B. Applications are easier to learn.
- C. RAM works more efficiently.
- D. The overall IT cost goes down.
- E. OS performance is superior.
- F. Upgrading applications is easier.

Answer: D,F (LEAVE A REPLY)

The correct answers are D. The overall IT cost goes down and F. Upgrading applications is easier.

Application virtualization is a technology that allows users to run applications without installing them on their devices. The applications are stored and executed on a remote server, and the users can access them through a network connection. Application virtualization has several benefits, such as¹²:

*The overall IT cost goes down: Application virtualization reduces the need for hardware, software, and maintenance costs, as the applications are centralized and managed on the server side. This also saves energy and space, as fewer physical machines are required to run the applications. Additionally, application virtualization can reduce licensing costs, as the applications can be delivered on-demand and based on usage.

*Upgrading applications is easier: Application virtualization simplifies the process of updating and patching applications, as the changes can be made on the server side and pushed to the users instantly. This eliminates the need for manual installation and configuration on each device, and ensures that all users have the latest version of the applications.

Other benefits of application virtualization include¹²³:

*Allows the running of legacy apps: Application virtualization can enable users to run applications that are developed for older or incompatible operating systems, such as Windows 7 or XP. This can extend the lifespan of legacy applications and avoid compatibility issues.

*Enables cross-platform operations: Application virtualization can allow users to run applications that are designed for different platforms, such as Windows apps on iOS, Android, macOS, or Chrome OS. This can increase the accessibility and mobility of the applications and enhance the user experience.

*Improves security and compliance: Application virtualization can isolate the applications from the underlying operating system and hardware, preventing malware or unauthorized access from affecting them. This can also protect the data and settings of the applications from being tampered with or lost. Furthermore, application virtualization can help enforce compliance policies and regulations, as the applications can be controlled and monitored by the server.

References:

1: 5 Benefits of Virtualization - IBM Blog

2: Benefits of Application Virtualization - AppsAnywhere

3: What is Application Virtualization? | VMware Glossary

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NEW QUESTION: 47

Which of the following utilizes TCP ports 20/21 and transfers data in cleartext?

A. SNMP

B. SSH

C. FTP

D. Telnet

Answer: (SHOW ANSWER)

FTP (File Transfer Protocol) uses TCP ports 20/21 and transfers data in cleartext, which means the data is not encrypted and can be read by anyone who intercepts it. This makes FTP insecure for transferring sensitive information. SSH (Secure Shell), on the other hand, uses port 22 and encrypts data, making it more secure.

SNMP (Simple Network Management Protocol) uses ports 161/162 and is used to monitor network devices.

Telnet uses port 23 and transfers data in cleartext, making it insecure. References: CompTIA A+ Certification Exam: Core 1 - Page 199

NEW QUESTION: 48

A user that works in sales is reporting that the output on each page printed from a laser has duplicate images.

Which of the following should be performed FIRST to eliminate the ghost images?

- A. Change the paper weight setting.
- B. Replace the printer's fuser.
- C. Upgrade the printer firmware.
- D. Clean the toner drums and rollers

Answer: D (LEAVE A REPLY)

If a laser printer is producing output with duplicate images (also known as ghost images), it could be due to an issue with the toner drums and rollers. The first step to eliminate the ghost images would be to clean the toner drums and rollers to remove any excess toner that may be causing the issue.

Ghost images are a common issue in laser printers where an image or text from a previous page appears faintly on subsequent pages. The cause of this issue is usually due to toner residue on the drum or rollers, which can be removed by cleaning the toner drums and rollers. References: Study Guide Section 4.6 - Printer technologies

NEW QUESTION: 49

A user needs to upgrade a PC in order to run the latest 3-D design software. Which of the following components should the user upgrade to best meet this requirement?

- A. Motherboard
- B. CPU
- C. Power supply
- D. Graphics card
- E. Memory

Answer: D (LEAVE A REPLY)

The correct answer is D. Graphics card.

A graphics card is a component that handles the processing and rendering of 3D graphics on a PC. A graphics card can significantly improve the performance and quality of 3D design software, as it can handle complex calculations and display high-resolution images faster than the CPU. A graphics card can also support features such as ray tracing, anti-aliasing, and texture mapping, which can enhance the realism and detail of 3D models.

A: Motherboard. This is not a correct answer. A motherboard is a component that connects and communicates with all the other components in a PC. A motherboard does not directly affect the performance or quality of

3D design software, unless it is incompatible or outdated with the other components.

B: CPU. This is not a correct answer. A CPU is a component that executes instructions and calculations for various programs on a PC. A CPU can affect the performance and quality of 3D

design software, but not as much as a graphics card. A CPU is more important for tasks such as compiling, encoding, or multitasking, which are not specific to 3D design.

C: Power supply. This is not a correct answer. A power supply is a component that converts AC power from the wall outlet to DC power for the PC components. A power supply does not directly affect the performance or quality of 3D design software, unless it is insufficient or faulty to provide enough power for the other components.

E: Memory. This is not a correct answer. Memory is a component that stores data temporarily for fast access by the CPU and other components. Memory can affect the performance and quality of 3D design software, but not as much as a graphics card. Memory is more important for tasks such as loading, saving, or switching between programs, which are not specific to 3D design.

Reference: System requirements | Substance 3D Designer¹, 12 Best Free 3D Modeling Software (For Beginners) 2023², System requirements for Autodesk 3ds Max 2021³.

NEW QUESTION: 50

A technical lead wants to migrate all common business applications, including email and fileshares, to the cloud. Which of the following cloud concepts should be used?

- A. MaaS
- B. PaaS
- C. SaaS
- D. IaaS

Answer: C (LEAVE A REPLY)

The cloud concept that should be used for migrating all common business applications, including email and fileshares, to the cloud is Software as a Service (SaaS).

NEW QUESTION: 51

A user's wireless laptop stopped working. A technician replaced the wireless card, but the wireless range is now limited. Which of the following should the technician perform next?

- A. Verify the antenna's connection.
- B. Switch from a 2.4GHz band to a 5GHz band
- C. Change the channels of the Wi-Fi card settings.
- D. Upgrade the wireless driver.

Answer: (SHOW ANSWER)

A limited wireless range after replacing the wireless card could indicate that the antenna is not properly connected to the card, or that the antenna is damaged or obstructed. According to the web search results, some possible steps to troubleshoot and verify the antenna's connection are: Open the laptop case and locate the wireless card and the antenna wires. Make sure that the wires are securely attached to the card's connectors, and that they are not loose or broken¹². Check the position and orientation of the antenna. Make sure that it is not blocked by any metal objects, walls, or other sources of interference. Adjust the angle or location of the antenna if possible to improve the signal strength³.

Replace the antenna with a new one or a compatible one from another device. Test the wireless range and performance with the new antenna2.

NEW QUESTION: 52

Which of the following frequency bands do 802.11b and 802.11g operate in?

- A. 1GHz
- B. 2.4GHz
- C. 5GHz
- D. 6GHz

Answer: B (LEAVE A REPLY)

The frequency bands that 802.11b and 802.11g operate in are 2.4GHz bands, which allow for longer range but lower speed than higher frequency bands such as 5GHz or 6GHz bands used by newer standards such as 802.11a/n/ac/ax.

NEW QUESTION: 53

A technician needs to fix a Cat 5 cable issue. The cable, which is connected to a network jack, fails when it is moved around. Which of the following items must the technician use to fix the issue? (Select TWO).

- A. Scissors
- B. Network tap
- C. Magnetized screwdriver
- D. Tone generator
- E. RJ45 connector
- F. Crimper

Answer: E,F (LEAVE A REPLY)

To fix a Cat 5 cable issue where the cable fails when it is moved around, the technician would need to use an RJ45 connector (option E) and a crimper (option F). The technician can use the crimper to attach a new RJ45 connector to the end of the cable, which should resolve the issue. An RJ45 connector (option E) is a type of connector commonly used for Ethernet networking. It is an

8-position, 8-contact (8P8C) modular plug and jack that is used to terminate Cat 5 and other types of twisted pair cables. A crimper (option F) is a tool used to attach connectors to the ends of cables. In this case, the technician would use the crimper to attach a new RJ45 connector to the end of the Cat 5 cable.

When a cable fails when it is moved around, it often indicates that there is a problem with the connector at the end of the cable. By attaching a new RJ45 connector using a crimper, the technician can ensure that the cable has a secure and reliable connection.

NEW QUESTION: 54

A user built a new PC with parts sourced from a popular online vendor. The system boots to the OS and basic browsing works, but whenever the user opens a 4K video or starts to play a game, the system immediately shuts down. Which of the following is the MOST likely cause of this issue?

- A. The video card was installed in the wrong PCIe slot.
- B. The CPU heat sink was attached without adequate thermal paste.
- C. The SSD drives do not have enough Pagefile.
- D. The system does not have enough RAM for 4K video.

Answer: B (LEAVE A REPLY)

Thermal paste is a substance that fills in any gaps between a CPU and its heat sink, which is a device that dissipates heat from the CPU. Without adequate thermal paste, the CPU may overheat and cause the system to shut down automatically to prevent damage. This is especially likely when running 4K video or games, which are more demanding and generate more heat. The technician should check if the CPU heat sink was attached properly and apply enough thermal paste to ensure good contact and heat transfer. Reference:

<https://partners.comptia.org/docs/default-source/resources/a-core-series-combined-content-guide> (page 28)

NEW QUESTION: 55

A user has noticed high CPU temperatures when gaming. The user would like to lower the CPU temperature, and cost is not an issue. Which of the following should the user do to BEST cool the CPU while keeping noise to a minimum?

- A. Upgrade the thermal paste.
- B. Use a copper heat sink.
- C. Upgrade the CPU fan.
- D. Install liquid cooling.

Answer: (SHOW ANSWER)

Liquid cooling is a method of cooling the CPU by circulating a liquid through a closed loop that absorbs heat from the CPU and transfers it to a radiator. Liquid cooling is more effective and quieter than air cooling, which uses a fan and a heat sink. However, liquid cooling is also more expensive and complex to install. Upgrading the thermal paste, using a copper heat sink, or upgrading the CPU fan are ways to improve air cooling, but they will not lower the CPU temperature as much as liquid cooling. References:

<https://www.comptia.org/certifications/a#examdetails> <https://www.comptia.org/blog/what-is-liquid-cooling>

NEW QUESTION: 56

Which of the following does a DHCP reservation MOST likely apply to?

- A. Smart TV
- B. Mobile device
- C. Workstation

D. Printer

Answer: D (LEAVE A REPLY)

A DHCP reservation is a feature that allows a DHCP server to assign a specific IP address to a specific device on a network, based on its MAC address. This ensures that the device always receives the same IP address, even if it is disconnected or rebooted. A DHCP reservation is most likely applied to a printer, as it can make it easier for users to find and connect to the printer on the network, without having to change the printer settings or deal with IP address conflicts.

Reference:

<https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 84)

NEW QUESTION: 57

A desktop support technician is tasked with upgrading a laptop so that it has the fastest data access possible.

Which of the following BEST satisfies this requirement?

- A. mSATASSD
- B. M.2NVMeSSD
- C. 2.5SATASSD
- D. 2.5SASHHD

Answer: (SHOW ANSWER)

M.2 NVMe SSD provides the fastest data access possible for a laptop. It is a high-performance solid-state drive that connects directly to the motherboard through an M.2 slot.

NEW QUESTION: 58

A technician is preparing a redesigned conference room for a presentation. The presenter connects a laptop to the LCD projector, but a "No input source" error message is displayed on the LCD projector's screen.

However, the presentation is working on the laptop's LCD screen when in mirroring mode on the docking station. Which of the following troubleshooting steps should the technician take first?

- A. Replace the LCD projector.
- B. Reboot the laptop.
- C. Update the display drivers.
- D. Check the physical cabling.

Answer: (SHOW ANSWER)

One of the possible causes of the error message "No input source" is that the LCD projector is not receiving any signal from the connected device, such as a laptop1. This could be due to a loose or faulty cable or connector, or an incorrect input source selected on the projector2.

Therefore, the first troubleshooting step that the technician should take is to check the physical cabling and make sure it is properly connected and secured12.

NEW QUESTION: 59

After a heavily used color laser printer was serviced to remove excessive dust, the image quality decreased.

Which of the following should a technician most likely check on the printer?

- A. Toner
- B. Calibration
- C. Fuser
- D. Drum

Answer: (SHOW ANSWER)

If a color laser printer's image quality decreases after being serviced for dust removal, it's likely that the servicing process affected the printer's calibration. Calibration ensures that color reproduction is accurate, and if disturbed, can lead to a decrease in image quality. It's important to check and recalibrate the printer to restore its ability to accurately reproduce colors and maintain high image quality.

References:

* CompTIA A+ Core 1 (220-1101) Exam Objectives, particularly the sections dealing with printer maintenance, troubleshooting, and the importance of calibration in maintaining image quality in laser printers.

* Knowledge of printer maintenance procedures and their impact on printer performance, with a focus on how calibration affects color accuracy and overall image quality.

NEW QUESTION: 60

A user's mobile phone gets really hot to the touch and does not retain a charge. The user also reports that the phone is very slow, especially while charging. Which of the following is MOST likely causing these symptoms?

- A. Broken charging port
- B. Digitizer failure
- C. CPU overheating
- D. Defective battery

Answer: (SHOW ANSWER)

A defective battery is the most likely cause of a mobile phone that gets really hot to the touch, does not retain a charge, and is slow while charging. A defective battery can cause the phone to overheat and may also cause performance issues. References: CompTIA A+ Certification Exam Objectives 1001, 2.14

NEW QUESTION: 61

An IT manager is requesting that the company buy new cables to be used with F-type connectors that are already in house. Which of the following cables should the company buy?

- A. Coaxial out
- B. Plenum
- C. Cat 5e
- D. Fiber

Answer: (SHOW ANSWER)

The company should buy Coaxial cables to be used with F-type connectors.

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NEW QUESTION: 62

Which of the following would MOST likely be used to connect one or more devices to the internet in a SOHO?

- A. Hub
- B. Ethernet gateway
- C. Wireless access point
- D. Router

Answer: D (LEAVE A REPLY)

A router is a device that connects one or more networks, such as a home or small office network, to the internet. It allows multiple devices to share a single internet connection and provides network address translation (NAT) to enable communication between the devices on the local network and the internet. A hub, Ethernet gateway, or wireless access point does not provide this functionality.

A router is the most likely device to be used to connect one or more devices to the internet in a SOHO. A router can provide network address translation (NAT), firewall protection, and other features that are important for securing and managing a network. References: CompTIA A+ Certification Exam Guide, pg. 355

NEW QUESTION: 63

A technician is working on a help desk ticket for a user who wants the filament replaced in a 3-D printer.

Which of the following should the technician do to remove the old filament and load the new one?

- A. Preheat the nozzle to melting temperature.
- B. Cut a sharp angle on the end of the strand.
- C. Push the filament along until resistance is felt.
- D. Withdraw the filament and remove the spool.

Answer: D (LEAVE A REPLY)

A technician is working on a help desk ticket for a user who wants the filament replaced in a 3-D printer. To remove the old filament and load the new one, the technician should preheat the nozzle to melting temperature.

After the nozzle is heated, the technician should withdraw the filament and remove the spool. Then, cut a sharp angle on the end of the new strand, and push it along until resistance is felt.

NEW QUESTION: 64

A technician is on site troubleshooting a customer's laptop. The technician needs to download a software update but the company's proxy is blocking updates. Which of the following would be the MOST appropriate action for the technician to take to get the update?

- A. Connect to a hotspot
- B. Request a traffic exemption.
- C. Change the DNS address to 1.1.1.1
- D. Update the Group Policy settings

Answer: B (LEAVE A REPLY)

If a technician is on site troubleshooting a customer's laptop and needs to download a software update but the company's proxy is blocking updates, the most appropriate action for the technician to take would be to request a traffic exemption from the company's IT department.

NEW QUESTION: 65

Which of the following network devices is used to separate broadcast domains?

- A. Switch
- B. Wireless access point
- C. Router
- D. Hub

Answer: C (LEAVE A REPLY)

A router (option C) is a network device that is used to separate broadcast domains. A broadcast domain is a logical division of a computer network in which all nodes can reach each other by broadcast at the data link layer. Routers operate at the network layer of the OSI model and use routing tables to determine the best path for forwarding packets between different networks. By separating broadcast domains, routers can help to reduce network congestion and improve performance.

When a router receives a broadcast packet on one of its interfaces, it does not forward the packet to any other interfaces. This means that only devices within the same broadcast domain as the sender will receive the broadcast packet.

NEW QUESTION: 66

Which of the following is a scenario in which an F-type connector would be used?

- A. A technician is making a serial connection to a hardware device.
- B. An internet service provider is installing service for a client.
- C. A user is purchasing a charging cable for a laptop.

D. An electrician is upgrading the service on an electrical panel.

Answer: (SHOW ANSWER)

An F-type connector is a coaxial RF connector that is commonly used for cable television, satellite television, and cable modems. An internet service provider (ISP) may use an F-type connector to connect the coaxial cable from the wall outlet to the cable modem or the set-top box. The F-type connector has a threaded interface that provides a secure and reliable connection. The F-type connector can also support high-frequency signals up to several GHz, which can deliver high-speed internet and high-definition television.

Other scenarios, such as making a serial connection to a hardware device, purchasing a charging cable for a laptop, or upgrading the service on an electrical panel, are not likely to use an F-type connector. A serial connection to a hardware device may use a DB-9 or a DB-25 connector, which are D-shaped connectors with pins. A charging cable for a laptop may use a USB or a barrel connector, which are flat or cylindrical connectors with contacts. An electrical panel may use a twist-lock or a pin-and-sleeve connector, which are round connectors with locking mechanisms.

References:

* F connector - Wikipedia¹

* F-Type Connectors - RF Connectors | Amphenol RF²

* How to Install F Connectors on Coaxial Cable - The Spruce³

NEW QUESTION: 67

Which of the following models is an example of metered utilization?

A. Reserved instance

B. Pay-as-you-go

C. Subscription-based

D. Multitenant

Answer: B (LEAVE A REPLY)

Metered utilization is a pricing model for cloud computing services, where the customer pays only for the amount of resources that are consumed, such as CPU time, memory, storage, bandwidth, etc. The customer is billed based on the actual usage of the resources, rather than a fixed or upfront fee. Metered utilization is also known as usage-based pricing or pay-per-use¹².

Pay-as-you-go is an example of metered utilization, where the customer pays for the cloud resources on demand, without any long-term commitment or contract. The customer can scale up or down the resources as needed, and only pay for what is used. Pay-as-you-go is a flexible and cost-effective option for customers who have unpredictable or variable workloads, or who want to try out new services or features¹².

The other options are not examples of metered utilization. Reserved instance is a pricing model where the customer pays a discounted rate for a fixed amount of cloud resources for a specified period of time, such as one or three years. The customer can reserve the resources in advance, and benefit from lower costs and guaranteed availability. Reserved instance is suitable for customers who have predictable or steady workloads, or who want to optimize their budget¹².

Subscription-based is a pricing model where the customer pays a fixed fee for a set of cloud services or features for a certain period of time, such as monthly or annually. The customer can access the services or features as much as needed, without worrying about the usage or consumption of the resources. Subscription-based is suitable for customers who want to have a consistent and predictable cost, or who want to access premium or exclusive services or features¹².

Multitenant is not a pricing model, but a cloud architecture where multiple customers share the same physical or virtual resources, such as servers, databases, applications, etc. The resources are isolated and secured for each customer, and the customers can benefit from lower costs, higher scalability, and faster updates. Multitenant is a common characteristic of public cloud services, where the cloud provider manages and maintains the resources for the customers¹².

References:

* CompTIA A+ Core 1 (220-1101) Certification Study Guide, Chapter 4: Cloud Computing and Virtualization, Section 4.2: Cloud Computing Concepts, Page 261

* CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Cram, Chapter 6: Cloud Computing and Virtualization, Section 6.2: Cloud Computing Concepts, Page 241

NEW QUESTION: 68

A user reports limited or no connectivity on a laptop. A technician runs `ipconfig /all` with the following result:

```
IPv4 connectivity...limited or none
IPv4 address...169.254.254.1
subnet mask...255.255.0.0
default gateway...
```

Which of the following is the MOST likely cause of this issue?

- A. Duplicate IP address
- B. ARP cache
- C. DNS resolution
- D. DHCP failure

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 69

Which of the following describes the BEST use case for a client-side hypervisor?

- A. By For a software developer who is required to test an application in many environments
- B. When the data center environment is out of resources for a new server
- C. As a cost-saving measure to allow multiple users on one computer
- D. To provide a backup to cloud-based solutions during internet failures

Answer: ([SHOW ANSWER](#))

A client-side hypervisor is a virtual machine monitor (VMM) that resides in and virtualizes a user's computer, allowing it to run multiple operating systems (or virtual machines) on shared hardware¹². A client-side hypervisor can be useful for a software developer who needs to test an

application in many environments, such as different versions of Windows, Linux, or Mac OS. By using a client-side hypervisor, the developer can switch between different virtual machines without rebooting the computer or using multiple physical devices³.

NEW QUESTION: 70

Recently, an organization received a number of spam emails that passed through the spam gateway. The emails contained generally the same information, but the sending domains were different. Which of the following solutions would BEST help mitigate the issue?

- A. Updating the keyword filtering
- B. Editing the sender policy framework
- C. Contacting the gateway vendor
- D. Verifying DMARC is enabled

Answer: (SHOW ANSWER)

DMARC (Domain-based Message Authentication, Reporting and Conformance) is an email authentication protocol. It is designed to give email domain owners the ability to protect their domain from unauthorized use, commonly known as email spoofing.

NEW QUESTION: 71

An application developer formats and reconfigures a development PC after every application test is complete.

Which of the following is the best way to improve the efficiency of this process?

- A. Installing an SSD
- B. Implementing a sandbox
- C. Disabling hyperthreading
- D. Enabling hardware acceleration

Answer: B (LEAVE A REPLY)

The best way to improve the efficiency of the process of formatting and reconfiguring a development PC after every application test is complete is to implement a sandbox. A sandbox is a virtual environment that isolates the application from the rest of the system, allowing the developer to test the application without affecting the main operating system, files, or settings. A sandbox can also be easily reset, deleted, or duplicated, saving the time and effort of formatting and reconfiguring the PC. A sandbox can also provide security benefits, such as preventing malware or bugs from spreading to the system or the network.

Other options, such as installing an SSD, disabling hyperthreading, or enabling hardware acceleration, may improve the performance of the PC, but they do not address the issue of formatting and reconfiguring the PC after each test. An SSD (solid state drive) is a storage device that uses flash memory instead of spinning disks, and it can offer faster data access, lower power consumption, and less noise and heat. Hyperthreading is a feature of some CPUs (central processing units) that allows each core to run two threads simultaneously, increasing the multitasking and parallel processing capabilities of the PC. Hardware acceleration is a technique

that uses the GPU (graphics processing unit) or other specialized hardware to perform some tasks faster than the CPU, such as rendering graphics, video, or audio.

References:

- * What is a Sandbox? | How Does a Sandbox Work? | Avast1
- * What is a Sandbox Environment? | Definition and FAQs2
- * How to Use a Sandbox to Test Software - Lifewire3
- * What is a Sandbox and How to Use One - Norton4
- * What is a Sandbox? - Definition from Techopedia5

NEW QUESTION: 72

A company wants to use client-side visualization for application testing. Which of the following configurations would BEST support this goal?

- A. CPU 3.2GHz - 1 core
16GB DDR4 RAM
4TB SSD
- B. CPU 3.2GHz - 4 cores
8GB DDR4 RAM
500GB HDD
- C. CPU 2.5GHz - 2 cores
16GB DDR4 RAM
4x 1TB HDD RAID 5
- D. CPU 2.5GHz - 4 cores
16GB DDR4 RAM
1TB SSD

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 73

A user is connecting to a network via a Bluetooth hot-spot. Which of the following best describes this type of network?

- A. SAN
- B. WAN
- C. LAN
- D. PAN

Answer: D ([LEAVE A REPLY](#))

The correct answer is D. PAN.

A PAN, or Personal Area Network, is a type of network that connects devices within a short range, usually less than 10 meters, and is used by an individual. A PAN can be wireless or wired, and it can enable data transmission between devices without requiring an internet connection. A PAN can also be connected to a LAN or a higher level network, where one device acts as a gateway.

A Bluetooth hotspot is an example of a wireless PAN, where a device such as a smartphone or a laptop can create a network with other Bluetooth-enabled devices nearby. A Bluetooth hotspot can allow devices to share files, access the internet, or use peripherals such as printers or speakers.

A SAN, or Storage Area Network, is a type of network that connects storage devices such as hard disks, tape drives, or optical drives to servers. A SAN provides high-speed data transfer and access to large amounts of data. A SAN is usually used in data centers or enterprises that need to store and manage huge volumes of data.

A WAN, or Wide Area Network, is a type of network that connects devices over a large geographical area, such as across cities, countries, or continents. A WAN can use different technologies and media to transmit data, such as fiber-optic cables, satellite links, or radio waves. A WAN can also consist of multiple LANs or other types of networks. The internet is the largest example of a WAN.

A LAN, or Local Area Network, is a type of network that connects devices within a limited area, such as within a building or a campus. A LAN can use wired or wireless technologies to transmit data, such as Ethernet cables, Wi-Fi routers, or switches. A LAN can enable devices to share resources, such as printers, scanners, or files.

For more information about the types of networks and their differences, you can refer to the following web search results: 11 Types of Networks: Understanding the Differences, Types of Computer Networks, Types of network - Introduction to networks.

NEW QUESTION: 74

A system administrator has been tasked with allowing SMTP traffic through the system's host-based firewall.

Which of the following ports should the administrator enable?

- A. 23
- B. 25
- C. 80
- D. 161

Answer: B (LEAVE A REPLY)

SMTP (Simple Mail Transfer Protocol) uses port 25 to send email messages between servers¹². SMTP uses port 25 to send email messages between mail servers. Therefore, the system administrator should enable port 25 to allow SMTP traffic through the host-based firewall.

References: CompTIA A+ Certification Study Guide, Tenth Edition, pg. 282

NEW QUESTION: 75

Which of the following best describes the primary function of a spam gateway?

- A. Serves as a repository for email routing logs
- B. Blocks unrequested ICMP packets from external networks
- C. Categorizes incoming network messages
- D. Mitigates DDoS attacks

Answer: C (LEAVE A REPLY)

A spam gateway is a software solution that filters email messages based on various criteria, such as sender, recipient, subject, content, attachments, and URLs. A spam gateway categorizes incoming network messages as spam or non-spam, and either blocks, quarantines, or delivers them accordingly. A spam gateway can help protect email servers and users from malicious or unwanted emails, such as phishing, malware, or advertising.

A: Serves as a repository for email routing logs. This is not the primary function of a spam gateway. Email routing logs are records of the path and status of email messages as they travel through the network. Email routing logs can help troubleshoot email delivery issues, but they do not filter or categorize email messages.

B: Blocks unrequested ICMP packets from external networks. This is not the primary function of a spam gateway. ICMP (Internet Control Message Protocol) packets are used to communicate network information, such as errors, requests, or replies. Blocking unrequested ICMP packets from external networks can help prevent network scanning or denial-of-service attacks, but it does not filter or categorize email messages.

D: Mitigates DDoS attacks. This is not the primary function of a spam gateway. DDoS (Distributed Denial-of-Service) attacks are attempts to overwhelm a network or server with a large amount of traffic from multiple sources. Mitigating DDoS attacks can help maintain network availability and performance, but it does not filter or categorize email messages.

Reference: Gateway Spam Filter - SpamTitan Email Security1.

NEW QUESTION: 76

A user recently connected multiple monitors to a dock and would like to use the monitors as an extended laptop display. Which of the following connection methods would be best to use to connect the dock to the laptop?

- A. NFC
- B. Lightning
- C. Bluetooth
- D. USB-C

Answer: D (LEAVE A REPLY)

USB-C is the best connection method to use to connect the dock to the laptop because it supports multiple display outputs, data transfer, audio, and power delivery with a single cable. USB-C can also be compatible with Thunderbolt 3 or DisplayPort over USB-C docking stations, which offer even higher performance and versatility. USB-C is also a reversible connector, which makes it easy and convenient to use.

References:

The Official CompTIA A+ Core 1 Student Guide (Exam 220-1101), Chapter 2: Configure and Support PC Components, Section 2.5: Compare and contrast various connection interfaces and explain their purpose, Page

941

How to Connect and Set Up a Docking Station With a Dell Laptop2

How to Dock a Laptop (with Pictures) - wikiHow3

How To Connect Two Laptops To One Docking Station4

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NEW QUESTION: 77

When a page that was printed on a laser printer is touched. the image on the paper smears. Which of the following is most likely the cause of this issue?

- A. Duplexing assembly
- B. Fuser
- C. Toner
- D. Transfer belt

Answer: B (LEAVE A REPLY)

The fuser is the part of a laser printer that uses heat and pressure to fuse the toner to the paper. If the fuser is defective or not hot enough, the toner may not adhere properly and smear when touched. The duplexing assembly, toner, and transfer belt are not related to this issue.

Reference: Official CompTIA learning resources CompTIA A+ Core 1 and Core 2, page 11.

NEW QUESTION: 78

A user reports a repetitive clicking noise is coming from a personal laptop. A technician notes the laptop's inputs are severely delayed. Which of the following should the technician replace to resolve the issue?

- A. The memory
- B. The storage device
- C. The integrated keyboard
- D. The battery

Answer: (SHOW ANSWER)

A repetitive clicking noise coming from a laptop is usually a sign of a failing hard disk drive (HDD), which is a type of storage device that uses spinning platters and moving heads to read and write data. A failing HDD can also cause severe delays in input and output operations, as well as data loss or corruption. The technician should replace the HDD with a new one or upgrade it to a solid state drive (SSD), which is another type of storage device that uses flash memory and has no moving parts. Reference:

NEW QUESTION: 79

A network technician needs to provide better wireless connectivity throughout a SOHO location. Which of the following should the technician deploy to best improve connectivity?

- A. Access point
- B. Managed switch
- C. POE hub
- D. Wi-Fi router

Answer: A (LEAVE A REPLY)

The correct answer is A. Access point.

An access point is a device that extends the wireless coverage of a network by creating a hotspot that allows wireless devices to connect to the network¹. An access point can be connected to a router or a switch via an Ethernet cable or a wireless bridge¹. By deploying one or more access points throughout a SOHO location, the technician can provide better wireless connectivity and eliminate dead zones or weak signals².

A managed switch is a device that allows multiple devices to communicate on a network by forwarding data packets based on their destination addresses³. A managed switch can also provide advanced features such as VLANs, QoS, security, and remote management³. However, a managed switch does not improve wireless connectivity, as it only works with wired devices.

A POE hub is a device that provides power and data over a single Ethernet cable to devices that support Power over Ethernet (PoE) technology, such as IP cameras, VoIP phones, and wireless access points⁴. A POE hub can simplify the installation and placement of these devices by eliminating the need for separate power adapters or outlets⁴. However, a POE hub does not improve wireless connectivity by itself, as it still requires an access point or a router to create a wireless network.

A Wi-Fi router is a device that combines the functions of a router and an access point, providing both wired and wireless connectivity to a network and the internet. A Wi-Fi router can be used to create a SOHO network, but it may not be sufficient to cover the entire location with a strong and reliable wireless signal. To improve wireless connectivity, the technician may need to add additional access points or use a mesh Wi-Fi system that consists of multiple routers that work together to create a seamless wireless network.

Therefore, an access point is the best option among the choices to improve wireless connectivity throughout a SOHO location.

NEW QUESTION: 80

Which of the following cables replaced the Apple 30-pin connector and is also reversible?

- A. USB-C
- B. Lightning
- C. miniUSB

D. DisplayPort

Answer: B ([LEAVE A REPLY](#))

Lightning Connector: Apple introduced this brand-new connector back in 2012. It is over 80% smaller than the 30-pin connector and is reversible.

https://www.cablewholesale.com/support/technical_articles/whats_your_port.php#:~:text=Lightning%20Connec

NEW QUESTION: 81

A technician is setting up a laptop with an encrypted hard drive. The laptop will securely store a PIN that the user will input at log-on. Which of the following must be installed to set up this configuration?

- A. TPM
- B. HSM
- C. UEFI
- D. ARM

Answer: (SHOW ANSWER)

TPM stands for Trusted Platform Module, and it is a special chip installed on a computer's motherboard that stores encryption keys, passwords, and digital certificates. It can also securely store a user's PIN, allowing them to access the laptop without having to enter the PIN every time they log on. TPM is a secure way to store and protect sensitive data, making it ideal for use in laptops that need to securely store a PIN.

NEW QUESTION: 82

A technician responds to a help desk ticket that indicates a user's workstation is not booting. The technician initially suspects a failed hard drive. The technician performs diagnostics and confirms the hard drive is fully operational.

Which of the following steps should the technician complete NEXT?

- A. Reinstall the operating system.
- B. Configure a new RAID array.
- C. Report the status of the drive and close the ticket.
- D. Consider another possible cause of the issue.
- E. Restore the latest backup of the system.

Answer: D ([LEAVE A REPLY](#))

Since the hard drive appears to be functioning normally, the technician should investigate other potential causes of the issue. This could include checking the BIOS settings, verifying the connections to the hard drive, and testing the RAM. Once these steps have been completed, the technician can then take the necessary steps to resolve the issue.

NEW QUESTION: 83

A technician is troubleshooting a thermal receipt printer that will not print. Which of the following should the technician do first to restore functionality?

- A. Update the printer driver on the computer.
- B. Replace the thermal printhead.
- C. Make sure the thermal head is heating up.
- D. Flip the paper roll orientation.

Answer: ([SHOW ANSWER](#))

A thermal receipt printer uses heat to print on thermal paper, which has a special coating that reacts to heat and produces black marks. If the paper roll is inserted in the wrong orientation, the printer will not be able to print anything on the paper. Therefore, the first thing the technician should do is to check if the paper roll is loaded correctly, with the paper feeding under, not over. This is a common and easy mistake to fix, and it does not require any software or hardware changes.

References

*Troubleshooting Your Thermal Printer Problems - Thermal POS Receipt Printer Tips & Tricks, paragraph 2

*POS Thermal Receipt Printer Troubleshoot - Not Printing Evenly, video at 0:15

*Receipt Printer Troubleshooting - Shopfront, bullet point 2

NEW QUESTION: 84

A user is having trouble accessing files on the network. A technician suspects the issue is a result of a failed NIC. Which of the following steps should the technician take to troubleshoot this issue?

- A. Document key findings, actions, and outcomes
- B. Establish a theory of probable cause.
- C. Test the theory to determine the cause.
- D. Identify the problem and act
- E. Verify system functionality

Answer: ([SHOW ANSWER](#))

The answer is C. Test the theory to determine the cause.

According to the CompTIA A+ troubleshooting methodology, the steps to troubleshoot any problem are:

- * Identify the problem and act
- * Establish a theory of probable cause
- * Test the theory to determine the cause
- * Establish a plan of action to resolve the problem and implement the solution
- * Verify system functionality and implement preventive measures
- * Document key findings, actions, and outcomes

In this scenario, the technician has already identified the problem (trouble accessing files on the network) and established a theory of probable cause (a failed NIC). The next step is to test the theory to determine the cause, which involves verifying whether the NIC is working properly or not.

Some possible ways to test the theory are:

- * Check the physical connection and status of the NIC port and cable¹²
- * Check the link state and speed of the NIC using ethtool or ip commands²
- * Check the configuration and state of the NIC using nmcli, teamdctl, or teamnl commands²
- * Check the driver and firmware of the NIC using lspci, modinfo, or dmesg commands²
- * Check the logs for any errors or warnings related to the NIC using journalctl or grep commands²
- * Uninstall and reinstall the NIC driver using Device Manager or modprobe commands¹³
- * Replace the NIC or cable with a known good one and test again¹³

If any of these tests confirm that the NIC is faulty, then the technician can proceed with the next step of establishing a plan of action to resolve the problem and implement the solution. If none of these tests reveal any issues with the NIC, then the technician can eliminate it as a probable cause and look for other possible causes. Therefore, option C is the correct answer.

NEW QUESTION: 85

A user's desktop computer slows down after a few minutes of use, and the fans alternate between silent and very loud. Which of the following is MOST likely failing, therefore causing these symptoms?

- A. CPU fan
- B. Memory
- C. Power supply
- D. Hard drive

Answer: (SHOW ANSWER)

A CPU fan is a component that cools down the CPU, which is the main processor of the computer. If the CPU fan is failing, it can cause the computer to slow down and the fans to alternate between silent and very loud¹².

This is because the CPU fan cannot maintain a consistent speed and airflow to keep the CPU at a safe temperature. When the CPU gets too hot, it throttles its performance to avoid overheating, which results in a slower computer. The other fans in the computer also try to compensate for the lack of cooling from the CPU fan by spinning faster and louder².

NEW QUESTION: 86

A user returns to work after a two-week vacation and cannot connect to an internal server. The remote drives were working the last time the user accessed them. Which of the following steps should the technician take next?

- A. Conduct external research on the server software vendor's website.
- B. Reference the server vendor's documentation for guidance.
- C. Confirm a theory and determine the next steps to resolve the issue.
- D. Determine if any infrastructure changes have been made.

Answer: D (LEAVE A REPLY)

The first step in troubleshooting any network connectivity issue is to identify the scope and source of the problem. The technician should check if any infrastructure changes have been made during the user's absence, such as updates, patches, configuration changes, or hardware replacements.

These changes could affect the network settings, firewall rules, permissions, or compatibility of the user's device or the server. The technician should also verify if other users or devices can access the server or if the problem is isolated to the user's device. By determining if any infrastructure changes have been made, the technician can narrow down the possible causes and formulate a theory to test.

References

Chapter 5: Hardware and Network Troubleshooting

How to fix HTTP 500 internal server error?

Remote desktop connection: An internal error has occurred

NEW QUESTION: 87

A technician verifies the slow boot time and slow OS performance of a tower server with a RAID 5 on a PCIe RAID card that does not support hot swapping. Which of the following steps should the technician take NEXT to verify RAID health?

- A. Verify S.M.A.R.T. operation on the RAID card.
- B. Replace the failed drive while users are connected
- C. Physically clean the HDDs and connectors.
- D. Shut down the server and check the RAID controller's status.

Answer: D (LEAVE A REPLY)

Since the RAID card does not support hot swapping, the technician needs to shut down the server and check the RAID controller's status to verify RAID health. S.M.A.R.T. is a feature of hard drives, not RAID cards.

Replacing the failed drive while users are connected could cause data loss or corruption.

Physically cleaning the HDDs and connectors is unlikely to solve the slow boot time and performance issues.

NEW QUESTION: 88

The output from print jobs a user submitted to a laser printer is missing the color yellow. The user has already attempted a cleaning cycle. Which of the following parts most likely needs to be replaced?

- A. Fuser
- B. Ink cartridge
- C. Imaging drum
- D. Toner tank
- E. Resin

Answer: (SHOW ANSWER)

An imaging drum is a component of a laser printer that transfers the toner to the paper. It is sensitive to light and can wear out over time, resulting in poor print quality or missing colors. If the cleaning cycle does not resolve the issue, the imaging drum may need to be replaced¹.

A fuser is a component of a laser printer that heats and melts the toner onto the paper. It does not affect the color output of the printer, but it can cause paper jams, smudges, or wrinkles if it is defective².

An ink cartridge is a component of an inkjet printer, not a laser printer. A laser printer uses toner, which is a dry powder, instead of ink, which is a liquid. An ink cartridge would not be compatible with a laser printer³.

A toner tank is a container that holds the toner for a laser printer. It can be either integrated with the imaging drum or separate from it. If the toner tank is empty or low, the printer will display a warning message and the print quality will deteriorate. However, if only one color is missing, the problem is more likely with the imaging drum than the toner tank⁴.

Resin is a material that is used in some types of 3D printers, not laser printers. Resin printers use a liquid resin that is cured by a light source to create solid objects. Resin has nothing to do with laser printing⁵.

NEW QUESTION: 89

A user in a home office is unable to connect to the internet. A technician asks the user to run the ipconfig command. Which of the following first octets immediately suggests an issue with the IP address?

- A. 10
- B. 169
- C. 172
- D. 192

Answer: B (LEAVE A REPLY)

An IP address starting with the first octet "169" immediately suggests an issue, indicating that the device has been assigned an Automatic Private IP Address (APIPA). APIPA addresses are self-assigned by a computer or device when it's unable to obtain an IP address from a DHCP server, which is common in situations where the device is unable to connect to the network or the DHCP server is not functioning properly. The range for APIPA addresses is 169.254.0.1 to 169.254.255.254, and seeing an IP address within this range is a clear indicator of connectivity issues related to DHCP.

References:

* CompTIA A+ Core 1 (220-1101) Exam Objectives, specifically the networking domain that covers understanding and troubleshooting network connectivity issues, including the significance of IP address ranges such as APIPA.

* Knowledge of TCP/IP networking concepts, specifically the role of DHCP in network connectivity and the implications of an APIPA address on a device's ability to connect to the internet.

NEW QUESTION: 90

Which of the following components houses the MX record?

- A. DNS
- B. VLAN

C. DHCP

D. SMTP

Answer: A (LEAVE A REPLY)

The domain name system (DNS) is the component that houses the MX record. The MX record is a type of DNS record that specifies which mail server is responsible for receiving email messages for a domain name.

VLAN is an acronym for virtual local area network, which is a logical subdivision of a network that allows devices to communicate as if they were on the same physical segment. DHCP is an acronym for dynamic host configuration protocol, which is a network protocol that assigns IP addresses and other configuration parameters to devices on a network automatically. SMTP is an acronym for simple mail transfer protocol, which is a network protocol that allows sending and receiving email messages over TCP/IP networks

NEW QUESTION: 91

A network technician is working to locate an end user's Cat 6 cable within a network rack. The server rack is poorly documented, and a cable management system has not been implemented. Which of the following would be the best tool to best identify the correct cable?

A. Cable tester

B. Network tap

C. Toner probe

D. Loopback plug

Answer: C (LEAVE A REPLY)

The best tool to identify the correct cable is C. Toner probe.

A toner probe is a device that can be used to locate and trace a specific cable within a network rack or a wall outlet. A toner probe consists of two parts: a tone generator and a tone detector. The tone generator is connected to one end of the cable and sends an audible signal through the cable. The tone detector is used to scan the other end of the cable and pick up the signal. The tone detector emits a sound or a light when it detects the signal, indicating the correct cable. A toner probe can be useful for network technicians who need to locate an end user's Cat 6 cable within a network rack that is poorly documented and has no cable management system. A Cat 6 cable is a type of twisted pair cable that can support high-speed data transmission over Ethernet networks. A network rack is a frame that holds network equipment, such as servers, switches, routers, or patch panels. A cable management system is a set of devices or methods that organize and secure the cables within a network rack .

The other options are not the best tools to identify the correct cable, because they have different purposes or limitations. A cable tester (option A) is a device that can be used to test the functionality and quality of a cable, such as its continuity, resistance, or interference. A cable tester can help diagnose and troubleshoot faulty cables, but it cannot locate or trace specific cables within a network rack. A network tap (option B) is a device that can be used to monitor and analyze the traffic and data that pass through a network. A network tap can help capture and inspect network packets, but it cannot locate or trace specific cables within a network rack. A

loopback plug (option D) is a device that can be used to test the functionality and connectivity of a port or an interface. A loopback plug can help verify if a port or an interface is working properly, but it cannot locate or trace specific cables within a network rack.

For more information about toner probes and other network tools, you can refer to the following web search results: [What Is a Toner Probe?], [What Is Cat 6 Cable?], [What Is a Network Rack?], [What Is a Cable Tester?], [What Is a Network Tap?], [What Is a Loopback Plug?].

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NEW QUESTION: 92

A technician is troubleshooting an old desktop system that randomly shows a Windows BSOD or powers off unexpectedly. All system temperatures are within normal limits. Which of the following should the technician do NEXT?

- A. Visually inspect the motherboard capacitors.
- B. Verify all case fans are operational.
- C. Check that the BIOS version supports the installed CPU.
- D. Compare the software requirements with the installed RAM.

Answer: A (LEAVE A REPLY)

BSODs can be caused by poorly written device drivers or malfunctioning hardware, such as faulty memory, power supply issues, overheating of components, or hardware running beyond its specification limits. In the Windows 9x era, incompatible DLLs or bugs in the operating system kernel could also cause BSODs.

NEW QUESTION: 93

A user reports that printed receipts have black smudges over the entire image. The text is still present but is very dark and sometimes illegible. Which of the following are the MOST likely cause and solution for the printer issue?

- A. The ribbon is jammed and is rubbing on the paper. Clear the bad ribbon and feed it through properly.
- B. The printhead is too hot. Adjust the temperature down and retry printing.
- C. The printer is loaded with the wrong type of paper. Replace the receipt paper with carbon paper.
- D. The blue ink cartridge was loaded with black ink. Put in the correct ink and clean the printhead.

Answer: (SHOW ANSWER)

The black smudges over the entire image on a printed receipt are most likely caused by a jammed ribbon that is rubbing on the paper. The solution is to clear the bad ribbon and feed it through the printer properly. Ribbon jams can be caused by various issues, such as incorrect installation or a damaged ribbon. References:

CompTIA A+ Certification Exam Objectives - 220-1001: 4.5 Given a scenario, troubleshoot common printer problems.

NEW QUESTION: 94

A laptop's external webcam software is running, but neither images nor videos can be viewed. Which of the following should a technician do first?

- A. Reseat the webcam.
- B. Restart the computer and run system diagnostics.
- C. Reinstall the webcam software and drivers.
- D. Research new webcam firmware.

Answer: A (LEAVE A REPLY)

The first step that a technician should do is A. Reseat the webcam.

Reseating the webcam means unplugging and plugging back the webcam into the laptop's USB port. This can help to ensure that the webcam is properly connected and recognized by the laptop. Reseating the webcam is a simple and quick troubleshooting technique that can solve many common issues, such as loose or faulty connections, power or bandwidth problems, or driver or software conflicts.

Reseating the webcam is the first step that a technician should do, because it follows the principle of starting with the easiest and most obvious solution before moving on to more complex and time-consuming ones.

Reseating the webcam can also help to isolate the problem and eliminate other possible causes. The other options are not the first steps that a technician should do, because they are more disruptive or less effective. Restarting the computer and running system diagnostics (option B) may be helpful if the problem is caused by a software or hardware error, but it may also cause data loss or interruption of other tasks.

Reinstalling the webcam software and drivers (option C) may be necessary if the problem is caused by a corrupted or outdated software or driver, but it may also introduce compatibility or configuration issues.

Researching new webcam firmware (option D) may be useful if the problem is caused by a firmware bug or vulnerability, but it may also pose security or stability risks.

For more information about troubleshooting external webcams, you can refer to the following web search results: [How to Fix Webcam Problems on Your Laptop], [How to Troubleshoot Webcam Issues on Windows 10], [How to Fix Common Webcam Problems].

NEW QUESTION: 95

A technician is building a budget PC with a dual-core CPU, onboard sound and graphics, and a single SSD.

Which of the following power supply wattage levels is the most appropriate?

- A. 1,000W
- B. 2,000W
- C. 850W
- D. 400W

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 96

A technician set up a new access point and has noticed significant latency on the selected channel. Which of the following tools can assist with locating the BEST channel to use?

- A. Wi-Fi analyzer
- B. Netstat
- C. Net use
- D. Traceroute
- E. Network tap

Answer: A ([LEAVE A REPLY](#))

A Wi-Fi analyzer is a tool that can be used to scan the local area for available wireless networks and can provide information such as signal strength, interference, and available channels. It can also be used to locate the best channel to use for a given access point, which can help to reduce latency and improve performance.

NEW QUESTION: 97

A technician is upgrading a legacy wireless router for a home user. After installing the new router and configuring the SSID to be the same, none of the devices will connect to the network. Which of the following should the technician check NEXT?

- A. DHCP pool configuration
- B. MAC filtering list
- C. Wireless protocol settings
- D. DNS servers

Answer: B ([LEAVE A REPLY](#))

The technician should check the MAC filtering list next as the new router may have a different MAC address than the old router. References: CompTIA A+ Certification Exam Guide, Exam 220-1101, Page 332

NEW QUESTION: 98

A technician is configuring the BIOS of a new workstation. The machine will be used for data analytics, and the technician would like to maximize the performance of the CPU. Which of the following BIOS settings should the technician verify?

- A. Virtualization technology

- B. GPU settings
- C. BIOS update
- D. Hyperthreading

Answer: ([SHOW ANSWER](#))

Hyperthreading is a feature of some CPUs that allows them to execute two threads (sequences of instructions) simultaneously on each core. Hyperthreading can improve the performance of CPU-intensive tasks, such as data analytics, by increasing the utilization of CPU resources and reducing idle time. The technician should verify that hyperthreading is enabled in the BIOS settings of the workstation.

NEW QUESTION: 99

A technician is setting up a new laptop for a user who wants to be able to quickly pack up the laptop and leave if needed. The user has the following accessories:

- * USB badge reader
- * USB badge printer
- * USB signature pad
- * 3.5mm headset
- * HDMI external monitor
- * Mouse

Which of the following is the best way to meet the user's requirement?

- A. Directly connect all accessories to the laptop.
- B. Provide the user with a second laptop.
- C. Connect everything to a compatible docking station.
- D. Provide the user with a USB hub.

Answer: ([SHOW ANSWER](#))

The best way to meet the user's requirement is C. Connect everything to a compatible docking station.

A docking station is a device that allows a laptop to connect to multiple peripherals and accessories with a single connection. A docking station usually has ports for USB, HDMI, audio, Ethernet, and power, as well as slots for expansion cards. A docking station can enhance the functionality and convenience of a laptop by providing a desktop-like experience¹. A compatible docking station is one that matches the laptop's model, brand, and connector type².

A port replicator is a simpler device that only replicates the ports of the laptop, such as USB and HDMI, without providing additional features or power. A port replicator can also allow a laptop to connect to multiple peripherals and accessories with a single connection, but it does not offer the same benefits as a docking station¹.

Directly connecting all accessories to the laptop would not meet the user's requirement, as it would be cumbersome and time-consuming to pack up and leave if needed. The user would have to disconnect and reconnect multiple cables every time they want to use or move the laptop. This option would also limit the number of accessories that can be connected, as the laptop may not have enough ports for all of them.

Providing the user with a second laptop would not meet the user's requirement, as it would be expensive and impractical. The user would have to transfer data and settings between the two laptops, and keep them both updated and secure. This option would also create confusion and redundancy, as the user would have two identical devices.

Providing the user with a USB hub would not meet the user's requirement, as it would only allow the user to connect more USB devices to the laptop. A USB hub is a device that splits one USB port into multiple ports, but it does not support other types of connections, such as HDMI or audio. A USB hub would also require an external power source or drain the laptop's battery faster. This option would not help the user connect the HDMI external monitor or the 3.5mm headset.

NEW QUESTION: 100

A technician is using a PAN to connect a group of users on a field project. Which of the following services should the technician activate on the mobile device to share the internet data connection?

- A.** Tethering
- B.** Pairing
- C.** Bluetooth
- D.** Hotspot

Answer: A (LEAVE A REPLY)

The correct answer is A. Tethering.

Tethering is the process of sharing a mobile device's internet data connection with other devices, such as laptops, tablets, or other phones. Tethering can be done by using a Wi-Fi hotspot, a Bluetooth connection, or a USB cable. A Wi-Fi hotspot creates a wireless network that other devices can join, a Bluetooth connection pairs the devices and allows data transfer, and a USB cable connects the devices physically and enables data sharing.

A PAN, or personal area network, is a type of network that connects devices within a short range, usually up to

10 meters. A PAN can be used for various purposes, such as transferring files, printing documents, or accessing the internet. A PAN can be created by using Bluetooth, Wi-Fi, or infrared technologies.

A technician can use a PAN to connect a group of users on a field project by using tethering on a mobile device. The technician can activate the tethering service on the mobile device and choose the preferred method of sharing the internet data connection. The other devices can then connect to the mobile device and access the internet through it.

The other options are incorrect because they are not services that can share the internet data connection on a mobile device. Pairing is the process of establishing a connection between two Bluetooth devices, but it does not necessarily share the internet data connection. Bluetooth is a technology that can create a PAN and enable tethering, but it is not a service that can be activated on a mobile device. Hotspot is a term that can refer to a Wi-Fi hotspot created by tethering on a mobile device, but it is not a service that can be activated on its own.

References:

Share a mobile connection by hotspot or tethering on Android
How to share a mobile connection by tethering or hotspot on Android
How to Share Mobile Internet to PC or Other devices

NEW QUESTION: 101

A small ISP has hired a new technician Joe, the new technician, is being trained to configure customers* home networks The trailing instructor gives me technician a starter kit with cables, cable ends, and other network equipment and asks mm to build a working network. The computer should be connected to have internet connectivity and the phone should be connected to have a dial tone.

INSTRUCTIONS

Use the appropriate cables. cable ends, tools and equipment to configure the network ana connect an components accordingly There are 3 steps and the simulation starts on step 1.

5000 Starter Kit

Step 1 Step 2 Show Question Reset All Answers

Connectors

- RJ11
- RJ45
- F Connector

Tools

- Crimper
- Utility Knife

Watermark: CompTIA freepdfmups.com



Answer:

See the answer below in explanation part.

Explanation:

Answer of both steps below.

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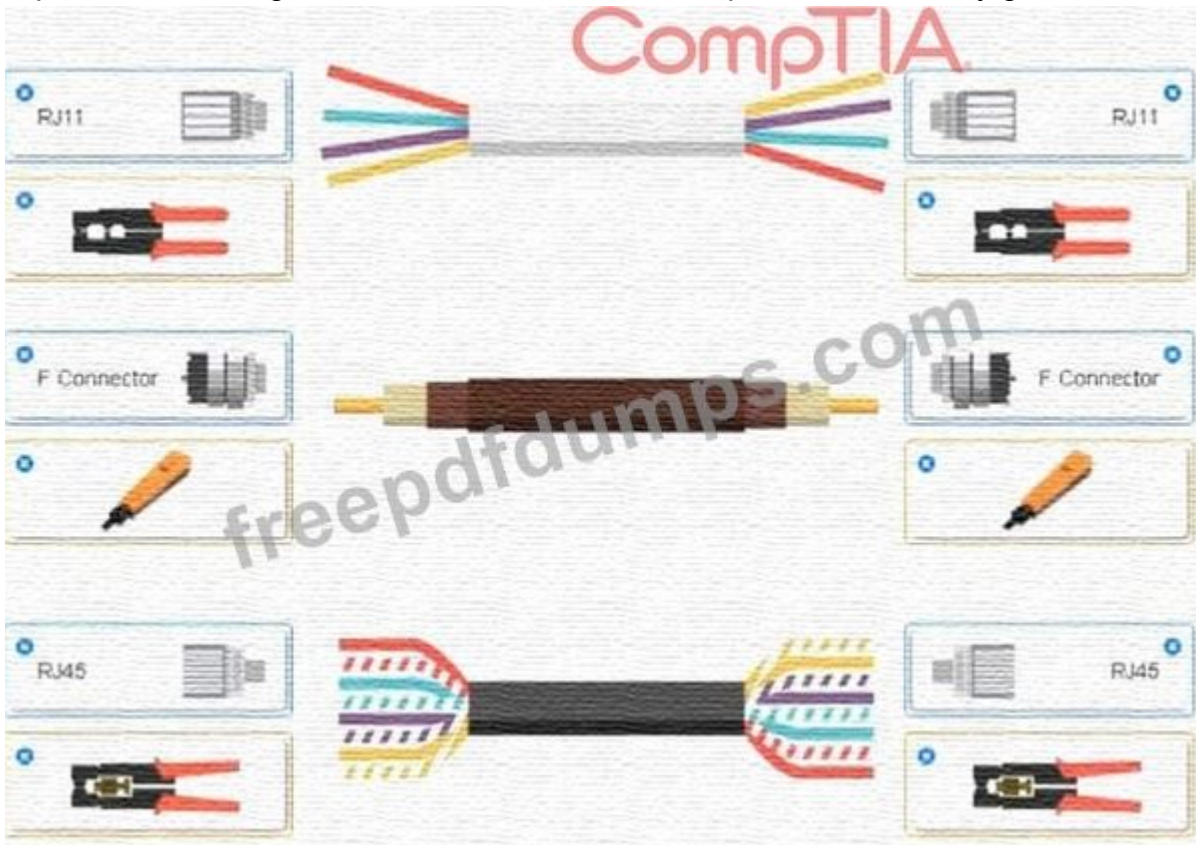
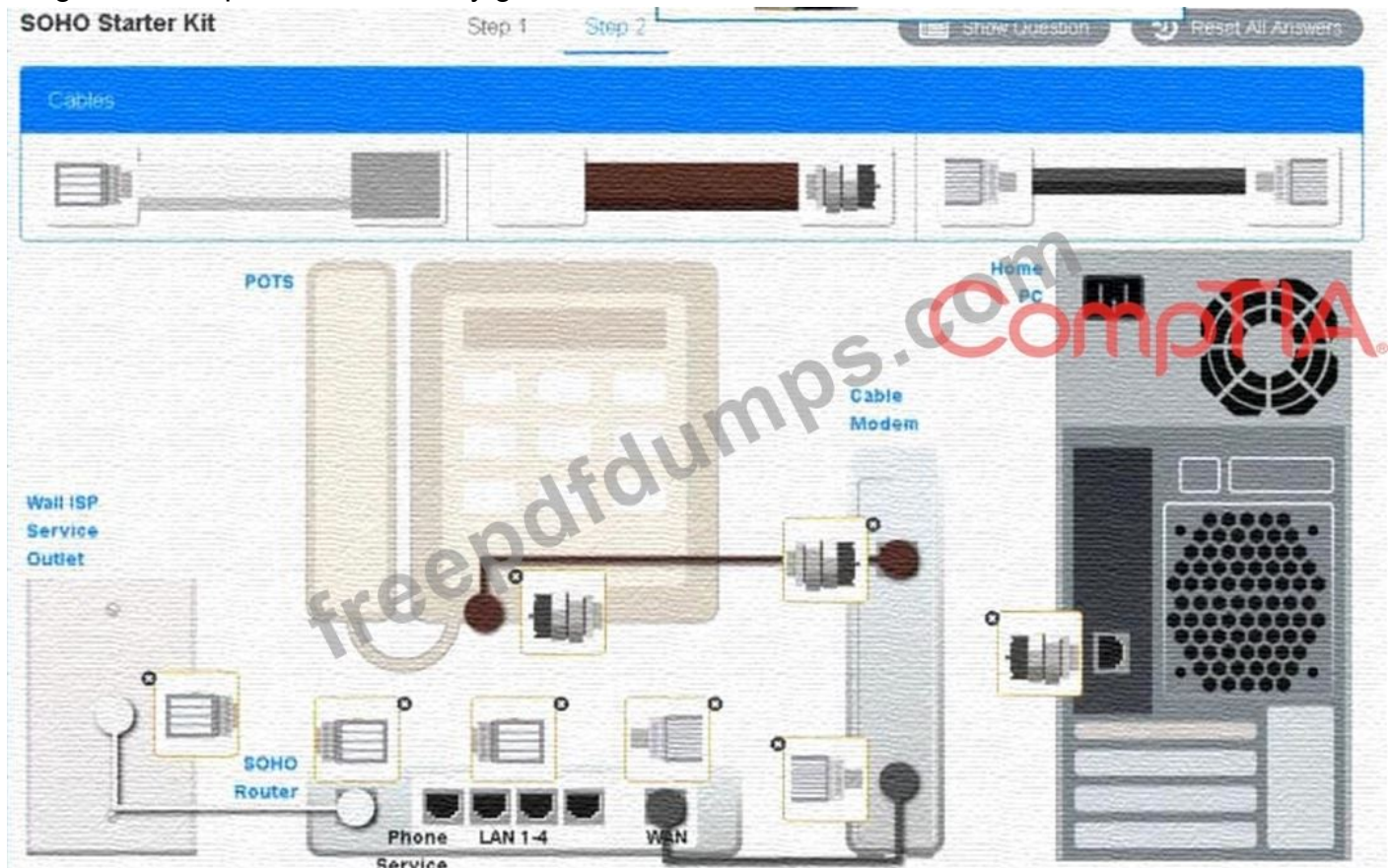


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NEW QUESTION: 102

A technician is asked to purchase and install a line-of-sight wireless system that provides a stable network connection between two buildings. Which of the following needs to be considered prior to purchasing the system?

- A. IP address range
- B. SSID broadcast
- C. Firewall rules
- D. Regulatory power limits

Answer: D (LEAVE A REPLY)

A line-of-sight wireless system is a type of wireless communication that requires a clear and unobstructed path between the transmitter and the receiver. This can be achieved by using directional antennas that focus the radio signals in a narrow beam. A line-of-sight wireless system can provide a stable network connection between two buildings that are within the range and visibility of each other.

However, before purchasing and installing a line-of-sight wireless system, one of the factors that needs to be considered is the regulatory power limits. The power limit is the maximum amount of radio frequency (RF) energy that a transmitter can emit. Different countries and regions have different regulations and standards for the allowable power levels of wireless devices. Exceeding the power limit can cause interference with other wireless services, such as aviation, radio, television, etc. It can also pose health and safety risks to humans and animals.

Therefore, a technician should check the local laws and regulations for the power limits of the wireless system before buying and installing it. The technician should also use a proper tool to measure the actual power output of the transmitter and adjust it accordingly. The technician should also ensure that the transmitter and receiver are aligned properly and have a clear line of sight without any obstacles.

The other options are not relevant to the line-of-sight wireless system. The IP address range is a set of numerical identifiers that are assigned to devices on a network. It does not affect the physical transmission of wireless signals. The SSID broadcast is a feature that allows a wireless network to announce its name and availability to nearby devices. It does not affect the stability of the network connection between two buildings.

The firewall rules are a set of policies that control the incoming and outgoing traffic on a network. They do not affect the line-of-sight wireless system.

References:

- * Wireless line-of-sight, non-line-of-sight, beyond-line-of-sight propagation
- * Point-to-point Wi-Fi bridging between buildings-the cheap and easy way
- * How Does Wireless Internet, or Line of Sight Internet Work?
- * Line-of-Sight Transmission - Engineering LibreTexts
- * What is Line of Sight (LoS)? - Definition from Techopedia

NEW QUESTION: 103

An engineer is building a workstation that requires the following components:

An ATX motherboard

A multi-core processor

A dedicated graphics solution

A SATA hard drive

DDR4 memory

Which of the following power supply specifications would meet the workstation criteria?

- A.** 12V, 500W output
- B.** SFX, 18-pin connector
- C.** DC input
- D.** Type A socket

Answer: A (LEAVE A REPLY)

A power supply unit (PSU) is a component that converts AC power from the wall outlet to DC power that can be used by the computer components. A PSU has various specifications, such as input voltage, output voltage, wattage, connector type, form factor, and efficiency rating³. In this scenario, the engineer is building a workstation that requires the following components: an ATX motherboard, a multi-core processor, a dedicated graphics solution, a SATA hard drive, and DDR4 memory. The most suitable power supply specification for this workstation is 12V, 500W output. This means that the PSU can provide 12 volts of DC power and 500 watts of total power to the components. 12V is the standard output voltage for most modern PSUs, and it is compatible with the ATX motherboard and the SATA hard drive⁴. 500W is a sufficient wattage for

a workstation that has a multi-core processor and a dedicated graphics solution, which are power-hungry components⁵. The other power supply specifications are not suitable for this workstation because:

*SFX, 18-pin connector is a form factor and a connector type that are not compatible with the ATX motherboard, which requires an ATX form factor and a 24-pin connector⁶.

*DC input is a type of input voltage that is not common for desktop PSUs, which usually use AC input from the wall outlet.

*Type A socket is a type of AC power plug that is used in North America and Japan, but it is not a power supply specification.

References

3: What Power Supply Do I Have: Quick Ways to Find Your PSU Specs

4: Power Supply 101: A Reference Of Specifications

5: How to Choose the Right Power Supply for Your PC

6: SFX vs ATX PSU: What's the Difference?

AC vs DC Power Supply: What's the Difference?

AC power plugs and sockets - Wikipedia

NEW QUESTION: 104

A user attempts to connect a laptop to a projector but receives the following message from the projector: Out of Range. Which of the following needs to be addressed first?

- A. Change the resolution settings.
- B. Check the video cable and replace it if necessary.
- C. Set the computer's display settings to extend/duplicate.
- D. Verify that the laptop video card driver is the most up-to-date version.

Answer: A (LEAVE A REPLY)

The most likely answer is A. Change the resolution settings.

The error "Out of Range" normally means that the resolution being output by the computer is not compatible with the projector. The resolution is the number of pixels that are displayed on the screen. If the resolution is too high for the projector, it may not be able to display the image correctly or at all¹².

To resolve this issue, you should try lowering the resolution settings on your laptop to match the native resolution of the projector or a lower one. You can do this by following these steps¹:

*Right-click on an empty area of your desktop and select Display settings.

*Under Scale and layout, click on Display resolution and choose a lower option from the drop-down menu.

*Click Apply and then Keep changes.

*Reconnect your laptop to the projector and check if the image is displayed properly.

If changing the resolution settings does not help, you may need to check other factors, such as the video cable, the display settings, or the video card driver. However, these are less likely to cause the "Out of Range" error than the resolution settings.

NEW QUESTION: 105

A company needs to support a 10Gbps throughput. Which of the following is the MINIMUM cable category that could be used?

- A. Cat 5
- B. Cat 5e
- C. Cat 6
- D. Cat 6a

Answer: (SHOW ANSWER)

The minimum cable category that could be used to support a 10Gbps throughput is Cat 6a. Cat 6a cable is required with 10 Gigabit Ethernet for reliable performance with cable lengths up to 100 metres. However, lower-specification cables can often be successfully used, particularly with the shorter cable lengths required in a typical home123.

NEW QUESTION: 106

A technician is replacing all RJ45 cables in a customer environment. Which of the following are the BEST tools to execute the task? (Select TWO).

- A. Optical fiber tester
- B. Scissors
- C. Cable tester
- D. Crimper
- E. Coaxial cable
- F. Screwdriver

Answer: (SHOW ANSWER)

A cable tester and a crimper are the best tools to execute the task of replacing all RJ45 cables in a customer environment. A cable tester can be used to check the continuity and quality of a cable, and a crimper can be used to attach RJ45 connectors to the ends of a cable. An optical fiber tester is a tool that can be used to test fiber optic cables, which are not RJ45 cables.

Scissors are not a tool for replacing cables, but for cutting them.

A coaxial cable is a type of cable that has a single copper conductor at its center, which is not an RJ45 cable either. A screwdriver is not a tool for replacing cables, but for fastening or loosening screws.

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NEW QUESTION: 107

A user reports a tablet restarts on its own every five to ten minutes. In addition, the tablet has intermittent issues with charging. The technician gives the user a new power adapter and charging cable, and the technician also tries resetting the OS. but the issue persists. Which of the following is the MOST likely cause of the issue?

- A. Water damage
- B. Incorrect OS version
- C. Faulty battery
- D. Damaged charging port

Answer: ([SHOW ANSWER](#))

A faulty battery could cause a tablet to restart on its own and have intermittent issues with charging. Water damage could also cause these symptoms, but it is not the most likely cause unless there is evidence of liquid exposure. Incorrect OS version could cause compatibility or performance issues, but not charging problems. Damaged charging port could prevent the tablet from charging, but not cause it to restart randomly.

NEW QUESTION: 108

A user's mobile device can back up classified files to an external hard drive at work but cannot save pictures to an external drive at home. Which of the following is most likely the issue?

- A. The pictures do not have a classification flag set.
- B. The drive permissions are insufficient.
- C. Peripherals are managed via MDM.
- D. Drivers are incorrectly installed.

Answer: ([SHOW ANSWER](#))

The most likely issue that prevents the user's mobile device from saving pictures to an external drive at home is that the peripherals are managed via MDM (mobile device management). MDM is a software solution that allows an organization to remotely control, secure, and enforce policies on mobile devices, such as smartphones, tablets, or laptops. MDM can also restrict the access and functionality of the peripherals, such as external drives, cameras, microphones, or printers, that are connected to the mobile devices.

One of the possible reasons why the user's mobile device can back up classified files to an external hard drive at work but not save pictures to an external drive at home is that the MDM policy allows only authorized peripherals to be used with the mobile device. For example, the MDM policy may require the external drive to have a certain encryption level, a specific serial number, or a valid certificate to be recognized by the mobile device. The external drive at work may meet these criteria, while the external drive at home may not.

Therefore, the mobile device can back up the classified files to the external drive at work, but it cannot save the pictures to the external drive at home.

To resolve this issue, the user may need to contact the IT administrator or the MDM provider and request permission to use the external drive at home. Alternatively, the user may need to use a

different method to transfer the pictures from the mobile device to the external drive, such as using a cloud service, a wireless network, or a USB cable.

References:

- * What is Mobile Device Management (MDM)?¹
- * How to Manage Mobile Devices With MDM²
- * How to Connect an External Hard Drive to Your Phone³

NEW QUESTION: 109

A printer is leaving vertical black lines on every print job. A technician runs a test job and sees the same patterned lines. Which of the following should the technician do first to resolve the issue?

- A.** Replace the paper.
- B.** Contact the vendor.
- C.** Replace the toner.
- D.** Clean the rollers.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 110

Which of the following display types is available for laptops?

- A.** OLED
- B.** CRT
- C.** DLP
- D.** Plasma

Answer: **A** ([LEAVE A REPLY](#))

The correct answer is A. OLED.

OLED stands for Organic Light-emitting Diode, and it is one of the three display types available for laptops, along with TN (Twisted Nematic) and IPS (In-Plane Switching) panels¹. OLED displays use organic compounds that emit light when an electric current is applied, unlike LCD displays that use a backlight to illuminate the pixels. OLED displays have several advantages over LCD displays, such as higher contrast, wider viewing angles, faster response times, and lower power consumption². However, OLED displays are also more expensive, less common, and more prone to burn-in than LCD displays².

CRT (Cathode Ray Tube), DLP (Digital Light Processing), and Plasma are not display types for laptops. CRT is an old technology that uses a vacuum tube to project an image on a phosphor screen. CRT monitors are bulky, heavy, and consume a lot of power³. DLP is a technology that uses a digital micromirror device and a light source to project an image on a screen or a wall. DLP is mainly used for projectors, not laptops⁴. Plasma is a technology that uses gas-filled cells that emit light when an electric current is applied. Plasma displays are mainly used for large-screen TVs, not laptops.

References:

1: Laptop Display 101: Display Types (TN, IPS, or OLED)

2: OLED vs LCD: which screen tech should you choose for your next laptop? | TechRadar

3: What is a CRT Monitor? - Definition from Techopedia

4: What is DLP (Digital Light Processing)? - Definition from WhatIs.com What is plasma display? - Definition from WhatIs.com

NEW QUESTION: 111

A technician is adding one more line at the demarcation point. Which of the following tools would be MOST useful to accomplish this task?

- A. Toner
- B. Punchdown
- C. Network tap
- D. Crimper

Answer: ([SHOW ANSWER](#))

Punchdown tools are used to connect wires to keystone jacks, patch panels and other communication hardware. When adding a new line at the demarcation point, a technician would use a punchdown tool to punch the wire into the keystone jack or patch panel, completing the connection.

NEW QUESTION: 112

In which of the following places is a laptop's wireless antenna MOST likely located?

- A. Near the network interface card
- B. Underneath the battery
- C. Integrated into the motherboard
- D. In the bezel of the lid

Answer: ([SHOW ANSWER](#))

According to Dell Community, the Wi-Fi antenna is located in the top of the LCD display housing. It consists of two elements, fed by two cables, a white main designated on the Wi-Fi card by a white triangle, and a black auxiliary designated on the Wi-Fi card by a black triangle1.

NEW QUESTION: 113

Given the following output from a cable tester:

= Open

=12345678=

=12 45 78=

Which of the following tools should the technician use to resolve this issue? (Select two).

- A. Loopback plug
- B. Network tap
- C. Toner probe
- D. Crimper
- E. Punchdown tool
- F. Wi-Fi analyzer

Answer: ([SHOW ANSWER](#))

The output from the cable tester indicates that there is an open fault in the cable, which means that one or more of the wires in the cable are not connected properly or are broken. The open fault affects the wires 3, 4, and 6, which are used for transmitting and receiving data in Ethernet networks. The open fault can cause network connectivity issues, such as no link, slow speed, or packet loss¹².

To resolve this issue, the technician should use a crimper and a punchdown tool, which are tools that are used to attach connectors to cables or wires to patch panels. A crimper is a tool that squeezes or crimps a connector, such as an RJ-45, to the end of a cable, ensuring that the wires are securely inserted into the pins of the connector. A punchdown tool is a tool that pushes or punches a wire into a slot on a patch panel, creating a connection between the wire and the panel. Both tools can be used to fix or replace the faulty wires or connectors that cause the open fault¹².

The other options are not as effective or relevant as a crimper and a punchdown tool. A loopback plug is a tool that is used to test the functionality of a network port or device, by sending and receiving signals from the same port or device. A loopback plug can help diagnose network problems, such as faulty ports or devices, but it cannot fix the open fault in the cable¹². A network tap is a tool that is used to monitor or capture network traffic, by creating a copy of the data that passes through a network link. A network tap can help analyze network performance, security, or troubleshooting, but it cannot fix the open fault in the cable¹². A toner probe is a tool that is used to trace or identify a cable or wire, by sending and detecting an audible tone along the cable or wire. A toner probe can help locate or label network cables or wires, but it cannot fix the open fault in the cable¹². A Wi-Fi analyzer is a tool that is used to scan or measure wireless networks, by displaying information such as signal strength, channel, encryption, etc. A Wi-Fi analyzer can help optimize or troubleshoot wireless networks, but it cannot fix the open fault in the cable¹².

References:

* Network Tools - CompTIA A+ 220-1101 - Professor Messer IT ...

* CompTIA A+ Core 1 (220-1101) Certification Study Guide, Chapter 5: Networking, Section 5.5: Network Tools, Page 249

* CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Cram, Chapter 5: Networking, Section

5.5: Network Tools, Page 213

* CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Pearson uCertify Course and Labs and Textbook Bundle, Chapter 5: Networking, Section 5.5: Network Tools, Page 250

NEW QUESTION: 114

While implementing a non-carrier-grade wireless backhaul, a technician notices the current channel selection is extremely polluted with various RF signals. Upon performing a spectral analysis, the technician discovers a channel containing almost no RF pollution. Unfortunately, the technician is unable to select that channel.

Which of the following is the MOST likely reason for this issue?

A. The channel is reserved for licensed band use.

- B. The channel selection is defective; contact the manufacturer.
- C. The channel must be unlocked by the vendor.
- D. The device requires a firmware update to unlock the channel.

Answer: A (LEAVE A REPLY)

The most likely reason that the technician is unable to select the channel with almost no RF pollution is that it is reserved for licensed band use. Some channels are reserved for specific purposes and require a license to use. These licensed bands are typically used for critical infrastructure, public safety, or military operations, and unlicensed devices are not allowed to use them. References: CompTIA A+ Certification Exam Objectives - 220-1001: 3.3 Compare and contrast common networking hardware devices.

NEW QUESTION: 115

A help desk technician thinks a desktop PC has failed due to a defective power supply. Which of the following steps should the technician take next?

- A. Inquire about environmental or infrastructure changes.
- B. Conduct external or internal research based on symptoms.
- C. Establish a plan of action to resolve the problem and implement the solution.
- D. Document the findings, actions, and outcomes.

Answer: B (LEAVE A REPLY)

According to the CompTIA troubleshooting methodology, the next step after establishing a theory of probable cause is to test the theory to determine the cause. However, before testing the theory, the technician may need to conduct some research based on the symptoms and the possible cause. This may involve consulting online resources, manuals, documentation, or colleagues to find out more information about the power supply and how to test it. Research can help the technician confirm or eliminate the theory and avoid unnecessary actions or damage.

Answer A is incorrect because inquiring about environmental or infrastructure changes is part of identifying the problem, which is the first step of the troubleshooting methodology. The technician should have already done this before establishing a theory of probable cause.

Answer C is incorrect because establishing a plan of action to resolve the problem and implement the solution is the fourth step of the troubleshooting methodology. The technician should not jump to this step without testing the theory and verifying the cause.

Answer D is incorrect because documenting the findings, actions, and outcomes is the last step of the troubleshooting methodology. The technician should not do this until the problem is resolved and verified.

Reference: Troubleshooting Methodology | IT Support and Help Desk | CompTIA

NEW QUESTION: 116

A user is unable to connect a mobile phone while in a car. However, a second mobile device is able to connect in the same car, WHICH of the following settings should the user check on the first phone?

- A. Wi-Fi

- B. Hotspot
- C. Bluetooth
- D. Location

Answer: C (LEAVE A REPLY)

To connect a mobile phone to a car, you need to pair them using Bluetooth, which is a wireless technology that allows secure local networks between devices¹. If one phone can connect to the car but another cannot, it means that the first phone has Bluetooth enabled and paired with the car, while the second phone does not. Therefore, the user should check the Bluetooth settings on the second phone and make sure it is turned on and discoverable²¹.

NEW QUESTION: 117

A team is having issues with paper jams on a printer that the team shares with other teams. The team that is having issues prints legal-sized documents, and the other teams print letter-sized documents. Which of the following is most likely the issue?

- A. Worn rollers
- B. Page orientation
- C. Tray settings
- D. Multipage misfeed

Answer: (SHOW ANSWER)

The most likely issue is C. Tray settings.

Tray settings are the configuration options that tell the printer what size and type of paper is loaded in each tray. If the tray settings do not match the actual paper size and type, the printer may not be able to feed the paper correctly and cause paper jams.

In this scenario, the team that is having issues prints legal-sized documents, which are 8.5 x 14 inches, while the other teams print letter-sized documents, which are 8.5 x 11 inches. If the printer's tray settings are set to letter size by default, the printer may not recognize the legal-sized paper and try to pull it as if it were letter-sized paper. This can result in paper jams or misaligned printing.

To fix this issue, the team should check and adjust the tray settings on the printer to match the paper size and type they are using. They can also use a separate tray for legal-sized paper and another tray for letter-sized paper, and make sure to select the correct tray when printing.

The other options are less likely to cause the issue, because:

*Worn rollers are the rubber parts that grip and move the paper through the printer. They can wear out over time and lose their traction, causing paper jams or misfeeds. However, worn rollers would affect all teams and all paper sizes, not just one team and one paper size.

*Page orientation is the direction of the paper, either portrait or landscape. It can affect how the document is printed on the paper, but not how the paper is fed into the printer. Page orientation can be changed in the print settings or in the document itself, but it would not cause paper jams unless the paper size is also incorrect.

*Multipage misfeed is when more than one sheet of paper is pulled into the printer at once, causing a jam. This can happen if the paper is too thin, too thick, or too slippery, or if there is too

much or too little paper in the tray. However, multipage misfeed would also affect all teams and all paper sizes, not just one team and one paper size.

For more information and tips on how to prevent and fix paper jams, you can visit these links:

*Fix Paper Jam Errors | HP Support

*Common Causes of Paper Jams and How to Fix Them - 1ink.com

NEW QUESTION: 118

A technician replaces a laptop hard drive with an M.2 SSD. When the technician reboots the laptop, the laptop does not detect the SSD. Which of the following should the technician configure for the system?

- A. HSM
- B. Boot options
- C. UEFI settings
- D. TPM

Answer: C (LEAVE A REPLY)

UEFI stands for Unified Extensible Firmware Interface, and it is a type of firmware that controls the boot process of a computer. UEFI settings allow the technician to configure various aspects of the boot process, such as the boot order, the boot mode, and the security options. If the technician replaces a laptop hard drive with an M.2 SSD, they may need to adjust the UEFI settings to enable the system to detect and boot from the new drive.

NEW QUESTION: 119

A user connects a smartphone to a laptop. Which of the following types of networks has the user created?

- A. PAN
- B. MAN
- C. WLAN
- D. LAN

Answer: (SHOW ANSWER)

When a user connects a smartphone to a laptop, they create a Personal Area Network (PAN). A PAN is a type of network used for communication between devices in close proximity to each other, typically within a range of a few meters or less. This type of network is commonly used for wireless communication between personal devices, such as connecting a smartphone to a laptop for file sharing or internet access. References: CompTIA A+ Certification Exam Objectives - 220-1001: 1.1 Explain common connectors and their uses.

NEW QUESTION: 120

A user failed to gain access to a building's entrance after security measures at the entrance were upgraded last week. The company implemented the 13.56MHz frequency short band, and users can now utilize their mobile devices to authenticate. Which of the following has to be enabled for the mobile device to authenticate?

- A. Bluetooth
- B. Biometrics
- C. NFC
- D. PIN

Answer: C (LEAVE A REPLY)

NFC (Near Field Communication) is a technology used for short-range wireless communication between devices, typically used for contactless payments and authentication. In this scenario, the 13.56MHz frequency short band was implemented, and users can authenticate using their mobile devices, which requires NFC to be enabled on the device. References: CompTIA A+ Certification Exam Objectives 220-1001 - Mobile device network and device synchronization - 4.4

NEW QUESTION: 121

A technician is trying to fix a computer that fails to boot even when all the RAM is removed. Which of the following should the technician do next to troubleshoot the issue?

- A. Inspect the motherboard for swollen capacitors.
- B. Replace the CMOS battery_
- C. Swap the power supply if it is inoperable.
- D. Check to see if the HDD power connectors are well seated

Answer: (SHOW ANSWER)

The next step that the technician should do to troubleshoot the issue is C. Swap the power supply if it is inoperable.

A power supply is a device that converts the alternating current (AC) from the wall outlet into direct current (DC) that the computer components can use. A power supply is essential for the computer to boot and function properly. A faulty or inadequate power supply can cause various issues, such as no power, no display, random shutdowns, or beeping sounds.

In this scenario, the technician is trying to fix a computer that fails to boot even when all the RAM is removed.

RAM stands for Random Access Memory, and it is a type of memory that stores data and instructions for the processor to access and process. RAM is also essential for the computer to boot and function properly. A faulty or incompatible RAM can cause various issues, such as no boot, no display, blue screen, or beeping sounds.

One of the basic troubleshooting techniques for a computer that fails to boot is to remove all the RAM modules and try to boot with one module at a time in different slots. This can help to identify if the problem is caused by a bad RAM module or a bad RAM slot. If the computer still fails to boot even when all the RAM is removed, it means that the problem is not related to the RAM, but to another component.

The next step that the technician should do is to swap the power supply if it is inoperable. This means that the technician should test the power supply with a multimeter or a power supply tester, and replace it with a known good one if it is faulty or insufficient. This can help to determine if the problem is caused by a bad power supply or a bad motherboard.

The other options are not the next steps that the technician should do, because they are less likely or less effective. Inspecting the motherboard for swollen capacitors (option A) may be helpful if the problem is caused by a damaged or defective motherboard, but it requires opening the computer case and visually examining the motherboard components. Replacing the CMOS battery (option B) may be necessary if the problem is caused by a low or dead CMOS battery, but it usually affects only the BIOS settings and not the boot process. Checking to see if the HDD power connectors are well seated (option D) may be useful if the problem is caused by a loose or faulty HDD connection, but it usually affects only the data access and not the boot process. For more information about troubleshooting power supply and boot issues, you can refer to the following web search results: [How to Troubleshoot a Computer That Won't Turn On], [How to Test a Power Supply Using a Multimeter], [How to Fix a Computer That Shows No Sign of Power], [How to Troubleshoot Beep Codes].

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NEW QUESTION: 122

A technician is setting up storage in a server that only has SAS connectors for storage. The technician wants the server to utilize RAID 10 for increased performance. Which of the following storage types should the technician install?

- A. NVMe M.2
- B. Mechanical
- C. mSATA
- D. Optical

Answer: B (LEAVE A REPLY)

SAS stands for Serial Attached SCSI, which is a type of interface that connects storage devices to servers or workstations. SAS supports both mechanical hard disk drives (HDDs) and solid state drives (SSDs), but not other types of storage devices, such as NVMe M.2, mSATA, or optical drives¹².

RAID stands for Redundant Array of Independent Disks, which is a method of combining multiple storage devices into a logical unit that provides improved performance, reliability, or both. RAID 10 is a combination of RAID 1 (mirroring) and RAID 0 (striping), which means that data is written across two or more striped sets of mirrored drives³⁴.

Therefore, the only type of storage device that the technician can install in a server that only has SAS connectors and wants to use RAID 10 is mechanical HDDs. Mechanical HDDs use spinning

platters and moving heads to store and access data, and they are usually cheaper and have larger capacities than SSDs, but they are also slower and more prone to failure .

References:

* CompTIA A+ Core 1 (220-1101) Certification Study Guide, Chapter 3: Hardware, Section 3.3: Storage Devices, Page 131

* CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Cram, Chapter 3: Storage, Section 3.2: Storage Interfaces, Page 97

* CompTIA A+ Core 1 (220-1101) Certification Study Guide, Chapter 3: Hardware, Section 3.4: RAID,

* Page 143

* CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Cram, Chapter 3: Storage, Section 3.4: RAID, Page 104

* CompTIA A+ Core 1 (220-1101) Certification Study Guide, Chapter 3: Hardware, Section 3.3: Storage Devices, Page 129

* CompTIA A+ Core 1 (220-1101) and Core 2 (220-1102) Exam Cram, Chapter 3: Storage, Section 3.3: Hard Disk Drives, Page 99

NEW QUESTION: 123

Which of the following would an administrator use to migrate virtual machines from on premises to the cloud?

- A. IaaS
- B. SaaS
- C. DBaaS
- D. DRaaS

Answer: A (LEAVE A REPLY)

An administrator would use Infrastructure as a Service (IaaS) to migrate virtual machines from on-premises to the cloud. IaaS is a cloud computing service that provides virtualized computing resources, such as servers, storage, and networking, that can be used to deploy and run applications in the cloud. By using IaaS, an administrator can create a virtual machine in the cloud and migrate the existing virtual machine from on-premises to the cloud. References: CompTIA A+ Certification Exam: Core 1 - Objective 3.3

NEW QUESTION: 124

An administrator is replacing 15,000rpm hard drives in a server. Which of the following is the interface type the drives most likely use?

- A. IDE
- B. SAS
- C. eSATA

D. SATA

Answer: ([SHOW ANSWER](#))

SAS stands for Serial Attached SCSI, which is a bit serial interface successor to SCSI sponsored by ANSI and introduced in 2004. SAS is the most common interface for enterprise HDDs, especially those with high performance and high reliability requirements, such as 15,000rpm drives²³. SAS offers faster data transfer speeds, lower power consumption, and better scalability than other interfaces¹.

NEW QUESTION: 125

The owner of a restaurant reports that wireless network connections are lost intermittently throughout the day.

Which of the following steps should a technician take to troubleshoot the issue? (Select TWO).

- A. Identify the location of devices that utilize 2.4GHz.
- B. Check to see if the phones are IJTP or STP lines.
- C. Test to see if the copper electrical Wires are causing interference.
- D. Map all of the wireless signals in the restaurant.
- E. Verify T568B is being used in the wiring closet patch panel.
- F. Schedule timed router reboots throughout the day.

Answer: A,D ([LEAVE A REPLY](#))

The correct answers are A. Identify the location of devices that utilize 2.4GHz and D. Map all of the wireless signals in the restaurant. In order to troubleshoot the issue, the technician should first identify the location of devices that utilize the 2.4GHz frequency, as this can cause interference with the wireless signal. Additionally, the technician should map all of the wireless signals in the restaurant in order to identify any potential sources of interference. Checking to see if the phones are IJTP or STP lines, testing to see if the copper electrical wires are causing interference, verifying T568B is being used in the wiring closet patch panel, and scheduling timed router reboots throughout the day are not necessary steps for troubleshooting this issue.

NEW QUESTION: 126

Which of the following protocols provides the fastest bandwidth?

- A. 802.11a
- B. 802.11ac
- C. 802.11ax
- D. 802.11n

Answer: C ([LEAVE A REPLY](#))

The 802.11ax protocol, also known as Wi-Fi 6, provides the fastest bandwidth among the options listed. It can achieve up to 10 Gbps of data transfer rate, using technologies such as OFDMA, MU-MIMO, and 1024-QAM.

The 802.11ac protocol, or Wi-Fi 5, is the second fastest, with a maximum of 3.46 Gbps, followed by the

802.11n protocol, or Wi-Fi 4, with a maximum of 600 Mbps. The 802.11a protocol is the slowest, with a maximum of 54 Mbps

<https://www.lifewire.com/wireless-standards-802-11a-802-11b-g-n-and-802-11ac-816553>

NEW QUESTION: 127

A technician replaced a motherboard on a server, and now the 64-bit hypervisor is not loading correctly.

Which of the following needs to be enabled for the hypervisor to run?

- A. Hardware prefetcher
- B. Hyperthreading
- C. vPro
- D. VT-d

Answer: D (LEAVE A REPLY)

https://techlibrary.hpe.com/docs/iss/proliant-gen10-uefi/s_enabling_VT-d.html Enabling VT-d (Virtualization Technology for Directed I/O) in the server's BIOS settings is required for the hypervisor to run properly. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 11

NEW QUESTION: 128

A user's mobile phone is constantly running hot and has a short battery life. A technician replaces the battery in the phone, but the issue persists. Which of the following steps should the technician take next?

- A. Check the device for updates.
- B. Check the device for malware.
- C. Check the device for liquid damage.
- D. Check the device's charging adapter.

Answer: (SHOW ANSWER)

The next step that the technician should take after replacing the battery in the phone is to check the device for malware. Malware is a malicious software that can infect the phone and cause various problems, such as overheating, battery drain, data theft, pop-up ads, or performance slowdowns. Malware can enter the phone through various sources, such as downloading apps from untrusted sources, clicking on suspicious links or attachments, or connecting to insecure Wi-Fi networks.

To check the device for malware, the technician can use a reputable antivirus or anti-malware app, such as the ones found in the web search results¹²³. The technician can follow these steps:

- * Download and install the antivirus or anti-malware app from a trusted source, such as the Google Play Store or the Apple App Store.
- * Launch the app and grant it the necessary permissions to scan the device.
- * Run a full scan of the device and wait for the results.
- * If the app detects any malware, follow the app's instructions to remove or quarantine it.
- * Restart the device and check if the overheating and battery drain issues are resolved.

Other steps, such as checking the device for updates, checking the device for liquid damage, or checking the device's charging adapter, may not be relevant or effective for solving the overheating and battery drain issues caused by malware. Checking the device for updates may improve the security and performance of the device, but it may not remove the existing malware. Checking the device for liquid damage may reveal physical damage to the device, but it may not explain the constant overheating and battery drain. Checking the device's charging adapter may ensure the proper charging of the device, but it may not affect the device's temperature or battery life when it is not plugged in.

References:

- * Best Android antivirus apps of 2023 | Tom's Guide¹
- * Best iPhone antivirus apps in 2023 | TechRadar²
- * The best antivirus software for Android - AV-TEST³

NEW QUESTION: 129

A systems administrator is attempting to resolve a ticket regarding an issue with an email server. The administrator is covering for a coworker who was previously working on the ticket. The coworker already gathered facts about the issue and spoke with users concerning their missing emails. The coworker also discovered the email server's retention policy was updated shortly before users first noticed the issue. Which of the following should the systems administrator do NEXT to resolve the email issue?

- A. Escalate the ticket to a higher level to resolve the email server issue.
- B. Test a theory to determine the cause of the email server issue.
- C. Establish a theory of probable cause for the email server issue.
- D. Create a plan of action to resolve the email server issue.

Answer: (SHOW ANSWER)

Before attempting to resolve the issue, it is important to first determine the cause or probable cause of the issue, so that a plan of action can be developed. In this case, the fact that the retention policy was updated shortly before users first noticed the issue suggests that this could be the cause of the issue. The systems administrator should investigate this further to determine if this is indeed the cause of the email server issue.

NEW QUESTION: 130

Which of the following 802.11 Wi-Fi protocols utilizes the 5.0GHz frequency and has the BEST speed and reception?

- A. 802.11a
- B. 802.11 ax
- C. 802.11b/g/n
- D. 802.11n

Answer: (SHOW ANSWER)

802.11 ax is a wireless networking protocol that utilizes the 5.0GHz frequency and has the best speed and reception among the options given. 802.11 ax offers higher data rates, lower latency,

increased capacity, and improved power efficiency than previous protocols. It is also known as Wi-Fi 6 or High Efficiency Wireless (HEW). 802.11a also uses the 5.0GHz frequency, but it is an older protocol that has lower speed and reception than 802.11 ax. 802.11b/g/n use the 2.4GHz frequency, which is more crowded and prone to interference than the 5.0GHz frequency. 802.11n can use both frequencies, but it is also slower and less efficient than 802.11 ax.

Reference: <https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 82)

NEW QUESTION: 131

Which of the following network devices would an administrator use to distribute traffic evenly throughout multiple nodes?

- A. Load balancer
- B. Bridge
- C. Proxy server
- D. Switch
- E. Firewall

Answer: A (LEAVE A REPLY)

A load balancer is a network device that distributes network or application traffic across multiple servers to ensure that no single server bears too much of the load. Load balancing helps to improve application availability, increase scalability, and optimize resource utilization.

A bridge is used to connect two different networks, often to divide a larger network into smaller segments. A proxy server is used to forward client requests to other servers, and can also be used to cache frequently requested data. A switch is used to connect multiple devices within a network and to control the flow of network traffic. A firewall is used to secure a network by controlling incoming and outgoing traffic based on defined security rules.

Reference: CompTIA A+ Core 1 Exam Guide, page 244.

NEW QUESTION: 132

Upon booting a workstation, a technician hears a distinct clicking sound after power is applied to the motherboard. Which of the following would MOST likely be the cause?

- A. RAID
- B. SSD
- C. S.M.A.R.T
- D. HDD

Answer: (SHOW ANSWER)

The clicking sound is the sound of a damaged disk in the HDD

A clicking sound from a hard disk drive typically indicates a mechanical failure, such as the read/write head hitting a physical obstruction or a problem with the disk motor. This can cause the drive to fail to initialize or not be recognized by the system during booting.

NEW QUESTION: 133

A user is experiencing an issue when trying to use a wireless headset with a mobile phone. The device was previously paired with the phone but is unable to connect when switched on. Which of the following should the user enable on the phone to remediate the issue?

- A. Bluetooth
- B. Near-field communication
- C. Tether
- D. Wi-Fi

Answer: ([SHOW ANSWER](#))

The correct answer is A. Bluetooth.

Bluetooth is a wireless technology that allows devices to communicate with each other over short distances. It is commonly used for connecting wireless headsets, speakers, keyboards, mice, and other peripherals to mobile phones, laptops, and other devices.

To use a Bluetooth device with a mobile phone, the user needs to enable Bluetooth on both devices and pair them together. Pairing is a process of exchanging security codes and creating a trusted connection between the devices. Once paired, the devices can automatically connect when they are in range and turned on.

If the user is experiencing an issue when trying to use a wireless headset with a mobile phone, the first thing to check is whether Bluetooth is enabled on both devices. If Bluetooth is turned off, the devices will not be able to connect or communicate with each other.

To enable Bluetooth on a mobile phone, the user can follow these steps:

*Check in quick settings: Select the Network, Sound, or Battery icons () on the right side of the taskbar, look for the Bluetooth quick setting, then select Bluetooth to turn it on. You'll see "Not connected" if your Windows 11 device isn't connected to any Bluetooth accessories.

*Check in Settings: Select Start > Settings > Bluetooth & devices . Make sure Bluetooth is turned on.

These steps are based on Windows 11 operating system¹. The exact steps may vary depending on the type and model of the mobile phone and its operating system.

If Bluetooth is enabled on both devices but they still cannot connect, the user can try some other troubleshooting steps, such as:

*Turn off your Bluetooth device, wait a few seconds, then turn it back on.

*Make sure your Bluetooth device is in range of your mobile phone.

*Remove the Bluetooth device from your mobile phone's list of paired devices, then add it again.

*Update the Bluetooth driver on your mobile phone or the firmware on your Bluetooth device.

*Restart your mobile phone or reset your Bluetooth device.

For more details and tips on how to fix Bluetooth problems in Windows 11² or other operating systems¹, you can visit the links provided.

NEW QUESTION: 134

An engineer is experiencing unexpected reboots on a graphics workstation when rendering complex 3-D models. The workstation is configured with a 115V power supply that is rated at

200W and connected to a UPS. The central processing unit contains 16 hyperthreaded cores, and a discrete graphics solution utilizing an 8-pin power connector is installed in a PCI Express x16 slot. Which of the following indicates where the technician should begin troubleshooting?

- A. The UPS, as 115V is insufficient for the configuration and should be increased to 220V
- B. The power supply, as 200W is insufficient when the GPU is heavily tasked
- C. The graphics card, as it is the component that triggers the unexpected reboots
- D. The motherboard, as only standard PCI slots should be used for high-end graphics cards, not PCI Express slots

Answer: B (LEAVE A REPLY)

The unexpected reboots on a graphics workstation when rendering complex 3-D models may be caused by insufficient power supply. The workstation is configured with a 115V power supply that is rated at 200W, which may not be enough when the GPU is heavily tasked. The technician should begin troubleshooting by checking the power supply.

NEW QUESTION: 135

A technician received a help desk ticket from a user who is unable to browse the internet_ Which of the following troubleshooting steps should the technician perform first?

- A. Establish a plan of action.
- B. Document the findings.
- C. Test the theory.
- D. Identify the problem

Answer: D (LEAVE A REPLY)

The correct answer is D. Identify the problem.

The first troubleshooting step that the technician should perform is to identify the problem. This means that the technician should gather information from the user and the system, and analyze the symptoms and the error messages to determine the nature and the scope of the issue. Identifying the problem can help to define the expected outcome, establish a theory of probable cause, and plan a course of action.

The other options are not the first troubleshooting steps, but they are part of the troubleshooting process that should be performed after identifying the problem. Establishing a plan of action (option A) means that the technician should devise a strategy to resolve the issue, based on the theory of probable cause and the available resources. Testing the theory (option C) means that the technician should verify if the theory of probable cause is correct, by performing tests or experiments on the system or its components. Documenting the findings (option B) means that the technician should record and report the results of each troubleshooting step, as well as the final solution and outcome.

For more information about troubleshooting steps and best practices, you can refer to the following web search results: [Troubleshooting Steps for Beginners], [Troubleshooting Methodology], [How to Troubleshoot Like an Expert].

NEW QUESTION: 136

A user tries to turn on a computer but gets the following error message: Bootable device not found. The computer had no issues yesterday Which of the following is the most likely reason for this error?

- A. The HDD is malfunctioning.
- B. The mouse and keyboard are not connected.
- C. A misconfigured boot device is in the BIOS.
- D. The network cable is unplugged

Answer: A (LEAVE A REPLY)

The most likely reason for this error is A. The HDD is malfunctioning.

A bootable device not found error usually indicates that the system cannot access or detect the hard disk that contains the operating system files. This could be due to a physical or logical damage to the hard disk, such as bad sectors, corrupted partitions, or faulty cables. According to the web search results, some possible causes and solutions for this error are:

- * Hard drive connection issue: Check the cabling and power supply to the hard drive and make sure they are properly connected¹².
- * Corrupt hard drive partitions: Use a Windows installation media to scan and repair the corrupt system files using the System File Checker (SFC) tool¹.
- * Damaged hard drive: Replace the hard drive with a new one and reinstall the operating system².
- * Incorrect boot sequence in the BIOS: Enter the BIOS or UEFI settings menu and change the boot order to make sure that the system drive is in the first position¹³.
- * Damaged MBR (Master Boot Record): Use a Windows installation media to repair the Windows bootloader using the Diskpart tool¹.

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NEW QUESTION: 137

A network technician needs to connect into the console of a switch. Which of the following connection types should the technician most likely utilize?

- A. Serial interface
- B. Bluetooth
- C. Near-field communication

D. Port replicator

Answer: A (LEAVE A REPLY)

A serial interface is a common way to connect to the console port of a switch using a rollover cable and a terminal emulator program. This allows the network technician to configure and troubleshoot the switch.

Bluetooth, near-field communication, and port replicator are not used for console connections.

Reference: CompTIA A+ Core 1 (220-1101) Certification Study Guide, page 31.

NEW QUESTION: 138

A technician is preparing to set up a gaming computer with the following components:

- * Discrete, high-end graphics card
- * Video capture card
- * High-end processor
- * Multiple hard drives
- * USB 3.0 hub
- * Sound card

Which of the following options is the most important for the technician to consider before building the gaming computer?

- A. Redundant power supply
- B. Modular power supply
- C. 20-pin vs. 24-pin power adapter
- D. Power supply wattage rating

Answer: D (LEAVE A REPLY)

The correct answer is D. Power supply wattage rating.

The power supply wattage rating is the most important factor to consider before building a gaming computer, as it determines how much power the system can draw from the wall and how much power the components can consume. A power supply with a low wattage rating may not be able to support the high-end graphics card, processor, and other devices, resulting in poor performance, instability, or damage¹².

To find the optimal power supply wattage rating for a gaming computer, the technician should calculate the total power consumption of all the components and add some headroom for future upgrades or overclocking.

The technician can use online calculators such as Cooler Master Power Calculator or Seasonic Wattage Calculator to estimate the power requirements of the system³.

NEW QUESTION: 139

A computer with a recently replaced CPU will not pass POST. When inspecting the inside of the computer, the technician sees several shorts on the motherboard near the location of the CPU.

Which of the following is most likely the cause of this issue?

- A. The incorrect heat sink was used on the CPU.
- B. Too much thermal paste was applied to the CPU.

- C. The power supply was undersized for the CPU.
- D. The CPU is not receiving any power from the motherboard.

Answer: A (LEAVE A REPLY)

The issue described in the scenario is most likely caused by the incorrect heat sink being used on the CPU. The heat sink plays a critical role in dissipating heat from the CPU to prevent overheating. If the incorrect heat sink is used, it may not fit properly, leading to insufficient contact with the CPU. This can cause inadequate heat transfer, resulting in the CPU overheating. Overheating can lead to thermal stress on the motherboard, potentially causing shorts near the CPU location as the excessive heat can damage the motherboard's circuits and components.

References:

- * CompTIA A+ Core 1 (220-1101) Exam Objectives, Section 3.0 Hardware, specifically the subsection on cooling mechanisms and their importance in maintaining the optimal operating temperature for CPU and other components.
- * General knowledge on the importance of proper heat dissipation in preventing hardware damage, particularly in scenarios involving CPU replacements and upgrades.

NEW QUESTION: 140

Laura, a customer, has instructed you to configure her home office wireless access point. She plans to use the wireless network for finances and has requested that the network be setup with the highest encryption possible. Additionally, Laura knows that her neighbors have wireless networks and wants to ensure that her network is not being interfered with by the other networks. She requests that the default settings be changed to the following.

Wireless Name: HomeWiFi

Shared Key: CompTIA

Router Password: Secure\$1

Finally, Laura wants to ensure that only her laptop and Smartphone can connect to the network.

Laptop: IP Address 192.168.1.100

Hardware Address: 00:0A:BF:03:C4:54

Smartphone: IP Address 192.168.1.101

Hardware Address: 09:2C:D0:22:3F:11

INSTRUCTIONS

Configure Laura's wireless network using the network adapter window.

If at any time you would like to bring back the initial state of the situation, please click the Reset All button.

Laura's Wireless Configuration

WIRELESS SETUP

NETWORK FILTER

ADMINISTRATOR TOOLS

Wireless Network Settings

Enable Wireless:

Wireless Network Name: HomeWiFi (Also called the SSID)

Wireless Channel: 1

Disable SSID Broadcast:

802.11g Only Mode:

Wireless Security Mode

Security Mode: Enable WPA2 Wireless Security (enhanced)

WPA2

Passphrase: CompTIA

Confirmed Passphrase: CompTIA

Laura's House



Wireless Network Name: Default
Security Mode: Open
Wireless Channel: 11



Wireless Network Name: MyWi
Security Mode: WEP
Wireless Channel: 6



Wireless Network Name: HomeWiFi
Security Mode: WEP
Wireless Channel: 1

Laura's Wireless Configuration

WIRELESS SETUP

NETWORK FILTER

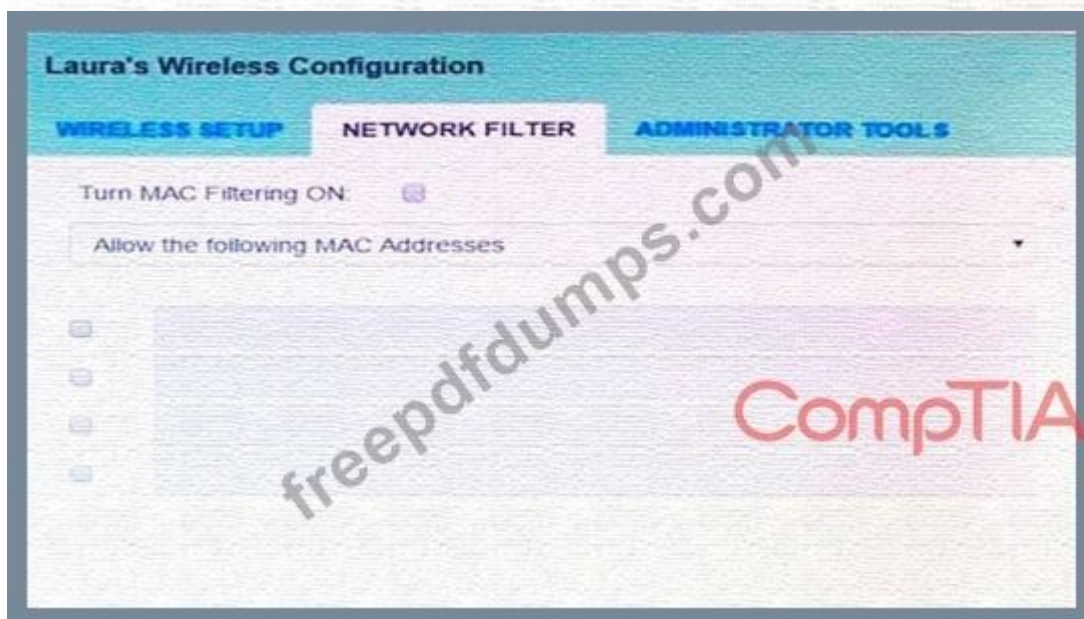
ADMINISTRATOR TOOLS

Please enter the same password into both boxes for confirmation.

Password

Verify Password

CompTIA



Answer:

See the explanation below

Explanation:

solution as

Wireless Configuration

Wireless Setup | Network Filter | Administrator Tools

WIRELESS NETWORK SETTINGS:

Enable Wireless:

Wireless Network Name: HomeWiFi (Also called the SSID)

Wireless Channel: 1

Disable SSID Broadcast:

802.11g Only Mode:

WIRELESS SECURITY MODE:

Security Mode: Enable WPA2 Wireless Security (enhanced)

WPA2

Passphrase: CompTIA

Confirmed Passphrase: CompTIA

Save Settings

Wireless Configuration

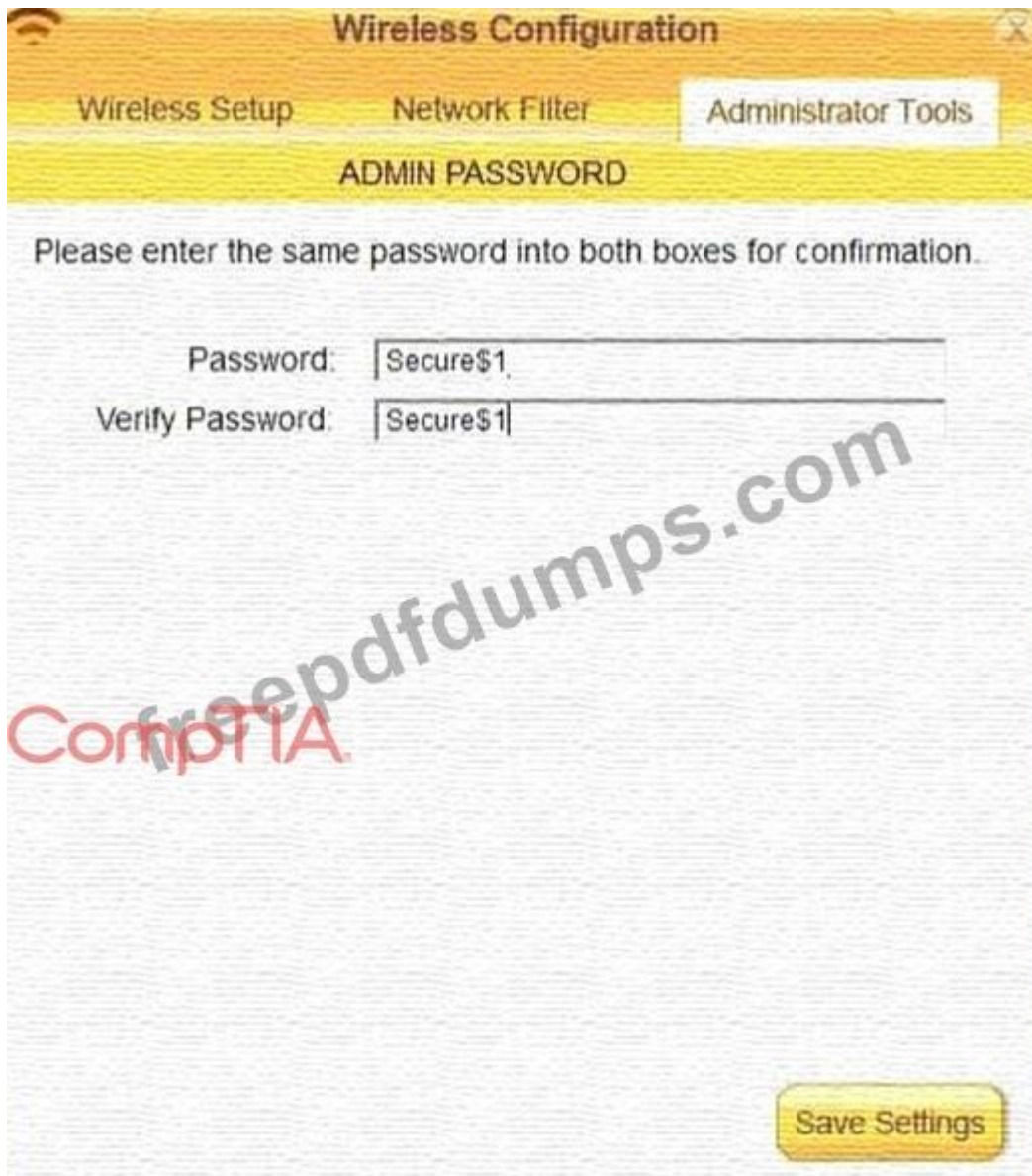
Wireless Setup | Network Filter | Administrator Tools

Turn MAC Filtering ON

Allow the following MAC Addresses

	MAC Address
<input checked="" type="checkbox"/>	00:0A:BF:03:C4:54
<input checked="" type="checkbox"/>	09:2C:D0:22:3F:11
<input type="checkbox"/>	

Save Settings



NEW QUESTION: 141

A customer reports that a computer is never able to reach more than a 100Mbps transfer data rate, even when using a Gigabit LAN card. While troubleshooting, the technician notices the network cable needs to be replaced. Which of the following cable categories is limiting the transfer speed?

- A. Cat 5
- B. Cat 5e
- C. Cat 6
- D. Cat 6a

Answer: A (LEAVE A REPLY)

Cat 5 cable is limited to a maximum data transfer rate of 100Mbps, while Cat 5e, Cat 6, and Cat 6a cables support Gigabit Ethernet (1000Mbps) and higher speeds. Even though the LAN card is capable of Gigabit speeds, it cannot achieve that speed when using a Cat 5 cable. Upgrading to a Cat 5e or higher cable would allow the computer to achieve Gigabit speeds. References:

CompTIA A+ Certification Exam: Core 1 - Page

NEW QUESTION: 142

A new VoIP solution is being implemented at a corporate office for more than 200 users. The new VoIP devices do not require AC adapters at the users' desks. Which of the following network devices should a technician purchase?

- A. Firewall
- B. Power injector
- C. PoE switch
- D. Router

Answer: C ([LEAVE A REPLY](#))

The correct answer is C. PoE switch.

A PoE switch is a network device that can provide both data and power to other devices over an Ethernet cable. PoE stands for Power over Ethernet, which is a technology that allows electrical power to be transmitted along with data on twisted pair Ethernet cabling. This eliminates the need for separate power supplies or AC adapters at the users' desks, as the VoIP devices can receive power from the PoE switch¹².

A firewall is a network device that monitors and controls incoming and outgoing network traffic based on predefined security rules. It does not provide power to other devices¹.

A power injector is a device that adds electrical power to an Ethernet cable for a single device. It is not suitable for a large number of devices, as it would require one power injector per device¹.

A router is a network device that connects multiple networks and forwards data packets between them. It does not provide power to other devices¹.

NEW QUESTION: 143

Which of the following is the maximum distance Cat 5, Cat 5e, Cat 6, and Cat 6a cables can be ran?

- A. 295ft (90m)
- B. 328ft (100m)
- C. 361ft (110m)
- D. 394ft (120m)

Answer: B ([LEAVE A REPLY](#))

The maximum distance that Cat 5, Cat 5e, Cat 6, and Cat 6a cables can be ran is 100 meters or 328 feet, according to the TIA/EIA standards. This is the maximum length for a cable segment, which is the distance between two devices, such as a switch and a computer, or a router and a printer. If the cable segment exceeds this length, the signal quality may degrade and cause errors or loss of data. Therefore, it is important to measure the cable length before installation and use repeaters or extenders if necessary.

References

1 Cable Distance | Comms InfoZone

2 Discussing Cat5 and Cat6 Max Length Limits - ShowMeCables

3 Cat5e vs Cat6 - Difference and Comparison | Diffen

NEW QUESTION: 144

Which of the following cables should be used when connecting a cable modem to a SOHO router?

- A. FireWire
- B. Fiber
- C. Ethernet
- D. Coaxial

Answer: C (LEAVE A REPLY)

The correct answer is C. Ethernet.

An Ethernet cable is a type of network cable that is used to connect devices on a local area network (LAN), such as computers, routers, switches, and modems. Ethernet cables have RJ-45 connectors at both ends, which are similar to telephone jacks but larger. Ethernet cables can carry data signals at speeds ranging from 10 Mbps to 10 Gbps, depending on the type and quality of the cable.

A cable modem is a device that connects to a coaxial cable from a cable service provider and provides high-speed internet access. A SOHO router is a small office/home office router that connects to a cable modem or DSL modem and provides network and internet access to multiple devices on a LAN. A SOHO router typically has one WAN port and four LAN ports. The WAN port is used to connect to the cable modem or DSL modem, while the LAN ports are used to connect to computers or other devices on the LAN.

To connect a cable modem to a SOHO router, an Ethernet cable is needed. The Ethernet cable is plugged into the WAN port of the SOHO router and the Ethernet port of the cable modem. This allows the SOHO router to receive an IP address from the cable service provider and share it with the devices on the LAN using network address translation (NAT). The SOHO router also provides firewall and wireless features for the LAN.

The other options are incorrect because they are not suitable for connecting a cable modem to a SOHO router.

FireWire is a type of serial bus that is used to connect devices such as digital cameras, external hard drives, and audio interfaces. FireWire cables have different connectors than Ethernet cables and cannot be used for network communication. Fiber is a type of optical cable that uses light signals to transmit data over long distances. Fiber cables have special connectors that are not compatible with Ethernet ports. Coaxial is a type of copper cable that has a central conductor surrounded by an insulating layer and a braided shield. Coaxial cables are used for cable TV and internet services, but they cannot be directly connected to Ethernet ports without an adapter.

References:

CompTIA A+ Certification Exam: Core 1 Objectives (220-1001)

Installing and Configuring a Cable Modem/DSL Router

Cisco 831 Router and SOHO 91 Router Cabling and Setup Quick Start Guide

NEW QUESTION: 145

A user is printing a part with a thermoplastic polyurethane (TPU) filament on a 3-D printer. The first layer on every print job is not adhering properly.

Which of the following should the user do to improve adherence on the first layer?

- A. Lower the print bed temperature.
- B. Adjust the RPM of the cooling fan.
- C. Increase the print speed.
- D. Raise the filament flow amount.

Answer: D (LEAVE A REPLY)

The correct answer is D. Raise the filament flow amount.

Filament flow amount, also known as extrusion multiplier or flow rate, is the setting that controls how much filament is extruded by the nozzle during 3D printing. It is usually expressed as a percentage of the default value, which is 100%. Increasing the filament flow amount means extruding more filament than usual, while decreasing it means extruding less¹.

The filament flow amount can affect the quality and adhesion of the first layer, which is crucial for a successful 3D print. If the filament flow amount is too low, the nozzle may not extrude enough filament to fill the gaps between the lines and create a smooth and solid first layer. This can result in poor adhesion, curling, warping, or detachment of the print from the bed¹².

To improve adherence on the first layer, the user should raise the filament flow amount slightly, such as 105% or 110%, to ensure that enough filament is extruded to create a strong bond with the bed. The user should also make sure that the nozzle height, bed leveling, and bed temperature are properly calibrated for optimal first layer adhesion¹².

The other options are less likely to improve adherence on the first layer, because:

*Lowering the print bed temperature may reduce the adhesion of the TPU filament to the bed, as TPU usually requires a bed temperature between 20-60°C for the best results³. Lowering the bed temperature may also increase the risk of warping or curling of the print⁴.

*Adjusting the RPM of the cooling fan may not have a significant effect on the first layer adhesion, as cooling fans are not required with TPU³. In fact, using a cooling fan with TPU may cause cracking or delamination of the print, as TPU needs to cool down slowly and evenly⁴.

*Increasing the print speed may worsen the first layer adhesion, as TPU is a flexible and elastic filament that needs to be printed slowly and consistently. A recommended print speed for TPU is 15-30mm/s³. Increasing the print speed may cause clogging, stringing, blobs, or under-extrusion of the filament⁴.

For more information and tips on how to 3D print TPU filament like a pro, you can visit these links:

*How to 3D Print TPU Filament Like a Pro - Ultimate Guide & FAQ

*The Complete TPU Filament 3D Printing Guide - 3DSourced

*TPU Filament 3D Printing Material - The Complete Guide

*TPU filament - learn everything about the TPU material for 3D printing

NEW QUESTION: 146

While using a popular videoconferencing program, the user selects a webcam, but the software is unable to open the webcam. The webcam was working the previous day. Which of the following should be done to address this issue?

- A. Close other video software and retry.
- B. Adjust the conference software to a compatible resolution.
- C. Switch the video from the webcam to "conference" mode.
- D. Reseat or replace the webcam.

Answer: ([SHOW ANSWER](#))

One possible solution to address the issue of a webcam not working with a videoconferencing program is to close other video software and retry (option A). It's possible that another video software program is currently using the webcam and preventing the videoconferencing program from accessing it. By closing any other video software that may be running on the computer, the user can ensure that the webcam is available for use by the videoconferencing program.

NEW QUESTION: 147

A natural disaster occurred, and the storage system for the development team is unrecoverable. The technician is preparing replacement storage arrays that include a hypervisor with the capacity to support several virtual machines. Two separate bays are available, and both should be utilized.

Requirements for the primary array include the following:

- * No need to be scalable
- * Very fast on reads
- * Fault tolerance of one drive
- * Ability to function with only one drive
- * Easily recoverable data
- * High redundancy
- * Minimum number of drives

Requirements for the secondary array include the following:

- * Fault tolerance of one drive
- * Total space of 600G3
- * Best write performance
- * Minimum number of drives

Instructions:

Drag and Drop the appropriate Hard Drives. Then Open each array to complete the configuration.



Answer:



Explanation:

Primary Array:

- * Drag and drop two 120 GB SSD hard drives to the primary array bay.
- * Open the primary array and select RAID 1 as the RAID level. RAID 1 provides fault tolerance of one drive, ability to function with only one drive, easily recoverable data, high redundancy, and very fast on reads. It also does not need to be scalable and uses the minimum number of drives (two) for RAID 1.
- * Confirm the configuration and close the primary array.

Secondary Array:

- * Drag and drop two 300 GB SSD hard drives to the secondary array bay.

* Open the secondary array and select RAID 0 as the RAID level. RAID 0 provides the best write performance and uses the minimum number of drives (two) for RAID 0. It also provides a total space of 600 GB (300 GB x 2), which meets the requirement.

* Confirm the configuration and close the secondary array.

You have completed the configuration of the storage arrays.

NEW QUESTION: 148

Which of the following allows a switch to be divided into separate logical networks?

- A. VLAN
- B. SSL VPN
- C. NAT
- D. RADIUS

Answer: (SHOW ANSWER)

A Virtual LAN (VLAN) is a network topology that allows a switch to be divided into separate logical networks. This allows for the creation of multiple broadcast domains within a single physical network, improving network segmentation and security. With VLANs, you can segment your network so that different departments, applications, or users are isolated from each other, improving network security and performance.

NEW QUESTION: 149

An IT manager is evaluating ticket resolution times. While reviewing the data, the manager notices repetitive issues are taking longer than expected to resolve. Which of the following changes should the manager implement to resolve repetitive issues more quickly?

- A. Require the technicians to spend more time testing theories to determine the root causes of issues.
- B. Require the technicians to verify full system functionality when resolving issues.
- C. Require the technicians to gather more information when speaking with users about issues.
- D. Require the technicians to document the findings, action, and outcomes of issues.

Answer: D (LEAVE A REPLY)

By documenting the findings, action, and outcomes of issues, the technicians can create a knowledge base that can be used to resolve similar issues in the future more quickly and efficiently. The documentation can also help identify patterns or trends that can lead to preventive measures or root cause analysis. Documenting the issues can also improve communication and collaboration among technicians and users, as well as provide evidence of service quality and performance. Reference:

<https://partners.comptia.org/docs/default-source/resources/a-core-1-content-guide> (page 4)

NEW QUESTION: 150

A user has been having issues charging a laptop after turning it on and has noticed the laptop screen is dim.

Which of the following components most likely needs to be replaced?

- A. LCD
- B. Video card
- C. Digitizer
- D. inverter

Answer: D (LEAVE A REPLY)

An inverter is a component that converts DC power to AC power for the backlight of an LCD (liquid crystal display) screen. If the inverter is faulty, the screen may appear dim or dark, even if the brightness settings are adjusted. Replacing the inverter may fix the issue. The LCD itself, the video card, and the digitizer are not related to the screen brightness problem.

Reference: [CompTIA A+ Core 1 (220-1101) Certification Study Guide], page 17.

NEW QUESTION: 151

An IT technician is working on a help desk ticket concerning a user's inability to create a virtual machine. The technician has already checked the RAM and HDD space in the user's machine. Which of the following settings should the technician check NEXT to help troubleshoot the issue?

- A. BitLocker
- B. MSConfig
- C. BIOS
- D. Secure Boot

Answer: C (LEAVE A REPLY)

One of the possible settings that could prevent a user from creating a virtual machine is BIOS (Basic Input/Output System). BIOS is a firmware that controls how hardware components interact with each other and with software applications. Some BIOS settings may need to be changed or enabled to allow virtualization, such as VT-x (Intel Virtualization Technology) or AMD-V (AMD Virtualization). The other options are not related to virtualization settings. Verified References: [How To Enable Virtualization In BIOS Settings].

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NEW QUESTION: 152

After an IT department implements SSL redirection, users report being unable to access a random number generator opened within a web browser. Which of the following should a technician do first to troubleshoot this issue?

- A. Ensure that the computer supports secure socket communication.
- B. Report the affected user accounts to the IT department.
- C. Reset the web browser cache.
- D. Check to see whether the website is HTTPS enabled.

Answer: D (LEAVE A REPLY)

After the implementation of SSL (Secure Sockets Layer) redirection, the inability of users to access certain web-based applications or content, like a random number generator, suggests a compatibility or compliance issue with HTTPS (HyperText Transfer Protocol Secure). The first troubleshooting step should be to verify if the website in question supports HTTPS, as SSL redirection forces connections to use HTTPS for security. If the website only operates over HTTP, it won't be accessible after SSL redirection is implemented, leading to the issues reported by users.

References:

- * CompTIA A+ Core 1 (220-1101) Exam Objectives, especially sections pertaining to network security protocols and the configuration of client-side network and security settings.
- * Understanding of web protocols and security measures, including the significance of HTTPS in ensuring secure communications over the internet and the impact of enforcing SSL redirection on accessing non-HTTPS compliant websites.

NEW QUESTION: 153

A technician is unable to connect to a network device via SSH_ Which of the following cables should the technician use as an alternative connection method with a laptop?

- A. Serial
- B. HDMI
- C. Parallel
- D. Lightning

Answer: A (LEAVE A REPLY)

The correct answer is A. Serial.

A serial cable is a type of cable that can be used to connect a laptop to a network device via a serial port. A serial port is a physical interface that allows data transmission between devices using serial communication, which is a method of sending data one bit at a time over a single wire. Serial ports are often used for console access to network devices, such as routers, switches, firewalls, or servers, when other methods of connection, such as SSH (Secure Shell), are not available or not working.

SSH is a protocol that allows secure and encrypted remote login and command execution over a network. SSH uses public key cryptography to authenticate the client and the server, and to encrypt the data exchanged between them. SSH can be accessed through different ports, depending on the configuration of the server and the client. The default port for SSH is 22, but it can be changed to any other port for security reasons.

HDMI (High-Definition Multimedia Interface) is a type of cable that can be used to transmit audio and video signals between devices, such as laptops, monitors, TVs, or projectors. HDMI cables

support high-definition video and audio formats, and can also carry Ethernet and power signals. HDMI cables are not suitable for connecting to network devices via SSH, as they are designed for multimedia purposes.

Parallel cables are a type of cable that can be used to connect devices that use parallel communication, which is a method of sending data multiple bits at a time over multiple wires. Parallel cables are often used for connecting printers or scanners to computers, but they are not commonly used for network devices or SSH connections.

Lightning cables are a type of cable that can be used to connect Apple devices, such as iPhones, iPads, or iPods, to computers or chargers. Lightning cables support data transfer and power delivery, and can also be used with adapters to connect to other types of ports, such as USB or HDMI. Lightning cables are not compatible with network devices or SSH connections, as they are specific to Apple products.

Therefore, the only cable that can be used as an alternative connection method with a laptop when SSH is not working is a serial cable. Serial cables can provide console access to network devices and allow configuration and troubleshooting commands to be executed. For more information about SSH and its alternatives, you can refer to the following web search results: Alternatives to SSH, How To Configure Custom Connection Options for your SSH Client, Understanding the SSH Encryption and Connection Process, How to Use Public Key Authentication with SSH.

NEW QUESTION: 154

A user submitted a help desk ticket to report that the Wi-Fi connection drops every time the microwave is used. A technician suspects the issue is related to interference. Which of the following should the technician do to provide the BEST long-term solution for the issue?

- A. Change the Wi-Fi operation channel.
- B. Configure the Wi-Fi AP to 5GHz.
- C. Increase the power output of the AP.
- D. Change the SSID to hidden.

Answer: B (LEAVE A REPLY)

The issue is related to interference from the microwave, which operates at 2.4GHz, the same frequency as some Wi-Fi channels. To avoid this interference, the technician should configure the Wi-Fi access point (AP) to use a 5GHz band, which has more channels and less interference from other devices. Changing the Wi-Fi operation channel may not solve the problem if the microwave interferes with multiple channels. Increasing the power output of the AP may not overcome the interference and may cause more interference to other devices. Changing the SSID to hidden does not affect the interference at all, and may make it harder for users to connect to the network. References: <https://www.comptia.org/blog/what-is-wifi-6-and-why-is-it-important>

NEW QUESTION: 155

Which of the following protocols is the most appropriate to use for inventory tracking in a small warehouse?

- A. Near-field communication
- B. Radio-frequency identification
- C. Bluetooth
- D. 802.11

Answer: B (LEAVE A REPLY)

Radio-frequency identification (RFID) is the most appropriate protocol to use for inventory tracking in a small warehouse. RFID is a technology that uses radio waves to identify and track objects that have RFID tags attached to them. RFID tags are small devices that store information about the object, such as its name, serial number, location, or status. RFID tags can be passive, which means they do not have a battery and rely on the radio signal from the reader to power them, or active, which means they have a battery and can transmit their own signal. RFID readers are devices that can scan the RFID tags and read the information stored on them.

RFID is suitable for inventory tracking in a small warehouse because it can provide several benefits, such as:

- * **Faster and more accurate scanning:** RFID tags can be scanned without direct line of sight, unlike barcodes, and can be scanned in bulk, unlike QR codes. This means that RFID readers can scan multiple items at once, even if they are inside boxes or containers, and reduce the time and errors involved in manual scanning.

- * **Real-time visibility and control:** RFID tags can be updated with the latest information about the inventory, such as its location, quantity, or condition. This means that RFID readers can provide real-time data and feedback on the inventory status, such as its availability, movement, or expiration.

This can help improve inventory management, optimize warehouse space, and prevent stockouts or overstocking.

- * **Enhanced security and quality:** RFID tags can be encrypted and authenticated, unlike barcodes or QR codes, which can be easily copied or tampered with. This means that RFID tags can prevent unauthorized access or theft of the inventory, and ensure its authenticity and quality. This can help protect the inventory from damage, loss, or fraud, and increase customer satisfaction and trust.

References:

- * Inventory Tracking Simplified: Steps, Methods and Efficiency Tips¹
- * 17 Essential Inventory Management Techniques - Forbes Advisor²
- * Inventory Tracking vs Inventory Traceability - Kardex³

NEW QUESTION: 156

A user's laptop has been slow to respond for the past few days. The user has run a virus scan, deleted temporary files, closed unnecessary programs, and rebooted the laptop, but the issue persists. Which of the following steps should the technician take next?

- A. Perform a RAM upgrade.
- B. Replace the laptop's hard drive.
- C. Bench test the laptop.

D. Run a firmware update.

Answer: D (LEAVE A REPLY)

Firmware is a type of software that controls the hardware components of a device, such as the motherboard, hard drive, or keyboard. Firmware updates can improve the performance, stability, and compatibility of the device, as well as fix bugs and security issues. Running a firmware update can help to resolve the issue of a slow laptop, especially if the firmware is outdated or corrupted.

NEW QUESTION: 157

A customer reports that, after a technician replaced a laptop screen, the laptop is only able to connect to a Wi-Fi network if it is positioned very close to a wireless access point. Which of the following should the technician verify first?

- A. The internal antennas are connected.
- B. The device has the latest OS updates.
- C. The wireless device drivers are the latest version
- D. Airplane mode is disabled.
- E. The battery is charging.

Answer: (SHOW ANSWER)

The internal antennas are the components that allow the laptop to receive and transmit wireless signals from and to the wireless access point. The internal antennas are usually located inside or around the laptop screen, and they are connected to the wireless network card or adapter by thin wires or cables. If the internal antennas are disconnected, damaged, or misaligned, the laptop may experience wireless connectivity issues, such as low signal strength, limited range, or intermittent connection.

In this scenario, a customer reports that, after a technician replaced a laptop screen, the laptop is only able to connect to a Wi-Fi network if it is positioned very close to a wireless access point. This could indicate that the technician accidentally disconnected or damaged the internal antennas during the screen replacement process, and that the laptop is not receiving enough wireless signals from the wireless access point. Therefore, the first thing that the technician should verify is that the internal antennas are properly connected and positioned inside or around the laptop screen.

To verify and reconnect the internal antennas, the technician should follow these steps :

- * Turn off the laptop and disconnect it from any power source or external device.
- * Remove the battery and any screws that secure the laptop screen bezel.
- * Carefully pry off the laptop screen bezel and expose the internal antennas.
- * Check if the internal antennas are intact and securely connected to the wireless network card or adapter.

The internal antennas may have different colors or labels, such as black, white, gray, main, aux, or 1, 2.

- * If the internal antennas are disconnected or loose, reconnect them to the corresponding connectors on the wireless network card or adapter. Make sure that they snap into place and that there is no gap or bend in the wires or cables.
- * If the internal antennas are damaged or broken, replace them with compatible ones. Make sure that they have the same length and shape as the original ones.
- * Realign and reposition the internal antennas inside or around the laptop screen. Make sure that they do not interfere with any other component or cable, and that they follow the original path and direction.
- * Reattach the laptop screen bezel and secure it with screws.
- * Reinsert the battery and turn on the laptop.
- * Test the wireless connectivity and performance of the laptop.

NEW QUESTION: 158

A user reboots a machine. On rebooting, the user hears one beep, and then an error message is displayed.

Which of the following are MOST likely causing this issue? (Select TWO).

- A. RAM module
- B. Graphics card
- C. CPU
- D. Boot order
- E. USB flash drive
- F. Power supply

Answer: A,D (LEAVE A REPLY)

When a user hears one beep on rebooting a machine, and then an error message is displayed, it could indicate that there is a problem with the RAM module or the boot order. The beep sound indicates that the POST process was successful, and the error message indicates that the boot process was unsuccessful. The boot order determines the sequence in which the computer looks for bootable devices. References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition by Mike Meyers (Page 693)

NEW QUESTION: 159

A technician is commissioning a workstation that is required to have mirrored storage, utilizing two 4TB drives that support one failure. Which of the following BEST meets these requirements?

- A. RAID 0
- B. RAID 1
- C. RAID 5
- D. RAID 10

Answer: B (LEAVE A REPLY)

RAID 1 is a mirrored configuration that utilizes two drives and provides redundancy by allowing one drive to fail without data loss. This configuration meets the requirement of mirrored storage

with two 4TB drives that support one failure. References: CompTIA A+ Certification Exam Guide, Ninth Edition, Chapter 8

NEW QUESTION: 160

After a required operating system upgrade on a mobile device, a user's external monitor no longer works.

Which of the following should a technician do to fix this issue?

- A. Restore the operating system to the previous version.
- B. Reseat the external video adapter.
- C. Replace the monitor
- D. Install the latest graphics drivers.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 161

A technician needs to recommend an internet connection for a customer who travels around the world and wants to have connectivity while visiting remote camping locations. Some of the locations the customer visits have limited or unreliable cellular service. Which of the following connection types should the technician recommend?

- A. Satellite
- B. DSL
- C. Fiber
- D. Hotspot

Answer: (SHOW ANSWER)

The connection type that the technician should recommend is Satellite. Satellite internet is a good option for people who travel around the world and want to have connectivity while visiting remote camping locations. It works by using terminals which can give you internet access in remote locations as long as they have a line of sight to the satellite in orbit above.

Since the customer travels to remote camping locations with limited or unreliable cellular service, the best recommendation is satellite internet connection. Satellite internet uses a dish to connect to satellites orbiting the earth, which can provide coverage anywhere in the world as long as there is a clear line of sight to the satellite. This is especially useful in remote areas where traditional terrestrial connections are not available.

References: CompTIA A+ Certification Exam Objectives - 220-1001: 1.6 Given a scenario, evaluate connection type and bandwidth.

NEW QUESTION: 162

A user creates a support ticket to report a conference room projector that does not work. The user says that even though the provided cables are being used, the projector screen shows the following error message:

No signal input

Which of the following describes the FIRST action that should be taken?

- A. Verify that the projector is turned on.
- B. Verify that the user is using an approved OS.
- C. Replace the projector bulb.
- D. Check the video cable and replace it if necessary.

Answer: D (LEAVE A REPLY)

The most common reasons you may be seeing the "No Signal" message: The projector and the source device are not connected correctly.

The first action should be to check the video cable and replace it if necessary, as the error message suggests that the projector is not receiving a signal from the laptop. Verifying that the projector is turned on and checking the bulb would come after verifying the video cable.

NEW QUESTION: 163

Which of the following explains how using a cloud infrastructure can provide rapid elasticity?

- A. Shared resources can reduce overhead.
- B. Customers can limit the use of a resource
- C. High availability of services can be provided
- D. Systems can be provisioned according to demand.

Answer: D (LEAVE A REPLY)

Systems can be provisioned according to demand. This is the essence of rapid elasticity, which is one of the essential characteristics of cloud computing. Rapid elasticity means that cloud services can be scaled up or down quickly and automatically, depending on the changing needs of the customers. This provides flexibility, efficiency, and cost-effectiveness for both the customers and the providers. According to the CompTIA Core1 objectives, one of the benefits of cloud computing is rapid elasticity. A research paper on cloud elasticity also defines it as the ability to dynamically adjust the amount of resources allocated to a service in response to its workload variation.

NEW QUESTION: 164

Which of the following options provides correct information about 2.4GHz and 5GHz wireless frequencies?

(Select TWO)

- A. 2.4GHz has less interference. 5GHz transmits in lower speed.
- B. 2.4GHz penetrates solid objects more effectively. 5GHz provides faster data connections.
- C. 2.4GHz has a higher data rate. 5GHz has 23 channels.
- D. 2.4GHz has 11 channels. 5GHz has no data interference.
- E. 2.4GHz has a higher coverage area. 5GHz has higher bandwidth.
- F. 2.4GHz has a higher bandwidth. 5GHz has lower transmit power.

Answer: B,E (LEAVE A REPLY)

The correct answers are B. 2.4GHz penetrates solid objects more effectively. 5GHz provides faster data connections and E. 2.4GHz has a higher coverage area. 5GHz has higher bandwidth. The 2.4GHz frequency has a lower data rate compared to 5GHz, but it can penetrate solid objects more effectively and has a higher coverage area. The 5GHz frequency, on the other hand,

provides faster data connections and has higher bandwidth, but it has fewer channels and lower transmit power.

NEW QUESTION: 165

A user reports that a projector was previously working, but the screen now displays the following error message: No Source Found. Which of the following actions should the technician take first? (Select two).

- A. Check the projector bulb and replace it with a new one.
- B. Verify the projector settings and make sure the correct input is selected.
- C. Replace the video cable and check the laptop settings.
- D. Check the laptop display settings and set them to extend/duplicate.
- E. Verify the projector is turned on.
- F. Check the projector settings and the laptop for the correct resolution.

Answer: ([SHOW ANSWER](#))

One of the possible causes of the error message "No Source Found" is that the projector is not receiving any signal from the connected device, such as a laptop¹. This could be due to an incorrect input source selected on the projector or an improper display setting on the laptop. Therefore, the first actions that the technician should take are to verify the projector settings and make sure the correct input is selected, and to check the laptop display settings and set them to extend/duplicate²³.

NEW QUESTION: 166

A computer that contains critical data has not been backed up and will not boot past a S. M. A. R. T, error that indicates imminent hard disk failure. Which of the following actions should the technician take FIRST?

- A. Run diagnostics on the faulty hard drive using a boot disk
- B. immediately replace the hard drive generating the SMART error
- C. Turn off S. M. A. R. T, monitoring in the computer's BIOS settings
- D. Attempt to boot the operating system in safe mode

Answer: ([SHOW ANSWER](#))

The technician should run diagnostics on the faulty hard drive using a boot disk first when a computer that contains critical data has not been backed up and will not boot past a S.M.A.R.T. error that indicates imminent hard disk failure. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 376

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NEW QUESTION: 167

Which of the following is the best example of SaaS?

- A. A car breaks down, and the driver presses a button to call for help.
- B. An accountant pays an annual fee for the tools the company needs to work.
- C. A company leases electric vehicles for all of its employees.
- D. A consultant hires a web developer to create a website.

Answer: B (LEAVE A REPLY)

NEW QUESTION: 168

A tier one technician has spent the past thirty minutes troubleshooting an Issue With an end user's network connection After a solution was implemented, the end user rebooted the system, tested the Issue, and confirmed the Issue was resolved. Which of the following should the technician do NEXT?

- A. Document the findings, actions, and solution in the company knowledge base
- B. Advise the user to try the solution before contacting the help desk if the Issue happens again
- C. Establish a theory of probable cause
- D. Escalate the Issue to the tier two support team for resolution.

Answer: A (LEAVE A REPLY)

According to the Official CompTIA A+ Core 1 Study Guide (220-1101) 1, the correct answer is A. Document the findings, actions, and solution in the company knowledge base.

The explanation is that after resolving an issue, a technician should always document what was done and how it was fixed. This helps to create a record of the problem and its solution for future reference and also to share knowledge with other technicians.

<https://www.comptia.org/training/books/a-core-1-220-1101-study-guide>

By documenting the findings, actions, and solution in the company knowledge base, it will help to ensure that if the Issue happens again, the technician or a different technician will be able to quickly and easily find the solution and resolve the Issue. Additionally, it is important to document the solution so that the same Issue does not need to be troubleshoot multiple times in the future.

NEW QUESTION: 169

A user requested upgrades to a company-issued laptop to increase its performance while working with a large database stored on drive C. Which of the following tasks should a systems administrator complete to BEST meet this goal? (Select TWO).

- A. Configure RAID 1.
- B. Install a hybrid drive.
- C. Upgrade to 1GB NIC.
- D. Increase the RAM.
- E. Migrate to a SSD.

F. Upgrade the power supply.

Answer: D,E ([LEAVE A REPLY](#))

To increase the performance of a laptop working with a large database stored on drive C, a systems administrator should increase the RAM and migrate to an SSD. Increasing the RAM will help the laptop to better handle the large database, while migrating to an SSD will improve the speed at which the laptop can access the database. Configuring RAID 1, installing a hybrid drive, upgrading to a 1GB NIC, and upgrading the power supply will not directly improve the laptop's performance when working with a large database.

References: CompTIA A+ Certification Exam: Core 1 - Objective 3.1

NEW QUESTION: 170

A user would like a removable storage device that is secure, portable, and does not contain moving parts.

Which of the following devices would be the most suitable?

- A. HDD
- B. NAS
- C. SSD
- D. SAN

Answer: C ([LEAVE A REPLY](#))

An SSD (solid state drive) is a removable storage device that uses flash memory to store data. It is secure, portable, and does not contain moving parts, which makes it more reliable and durable than other types of storage devices. An HDD (hard disk drive) is not suitable, as it contains spinning platters and read/write heads that are prone to damage and data loss. A NAS (network attached storage) and a SAN (storage area network) are not removable devices, as they are connected to a network and provide shared storage for multiple users.

Reference: [CompTIA A+ Core 1 (220-1101) Certification Study Guide], page 23.

NEW QUESTION: 171

Which of the following is an advantage that OLED displays have over LCD displays?

- A. The color does not degrade over time.
- B. The power consumption is lower.
- C. The power contrast results in finer grayscale levels.
- D. A backlight is utilized.

Answer: ([SHOW ANSWER](#))

OLED (Organic Light Emitting Diode) displays have lower power consumption than LCD (Liquid Crystal Display) displays because they do not require a backlight to produce light. Each pixel in an OLED display can emit its own light, which also allows for higher contrast and finer grayscale levels. However, OLED displays are more prone to color degradation over time than LCD displays, which use filters to create colors. Verified References: OLED vs LCD: How to choose the right display for your phone.

NEW QUESTION: 172

After a company upgraded its network infrastructure, a user's desktop has been experiencing slow network speeds. Which of the following should a technician do first to improve desktops connectivity performance?

- A. Update the NIC drivers
- B. update the BIOS firmware.
- C. Replace the motherboard
- D. Replace the patch cable

Answer: D (LEAVE A REPLY)

The technician should replace the patch cable that connects the desktop to the network switch or outlet. The patch cable may be damaged or incompatible with the upgraded network infrastructure, which can cause slow network speeds. According to the CompTIA Core1 objectives, one of the common symptoms of a bad cable is slow transfer speeds. A research paper on network performance also states that cable quality and length can affect network speed.

NEW QUESTION: 173

A technician is upgrading the power supply of a workstation that is running multiple GPUs in an SLI configuration. Which of the following cables is needed to ensure the power supply can support the workstation?

- A. 8-pin PCIe
- B. 4-pin Molex
- C. 4+4-pin ATX12V
- D. 8-pin ATX12V

Answer: A (LEAVE A REPLY)

The 8-pin PCIe power cable is designed to supply power to a graphics card that requires more power than the PCIe slot can provide. A workstation that is running multiple GPUs in an SLI configuration would need this cable to ensure adequate power delivery and stability. The other cables are not suitable for this purpose, as they are either meant for the motherboard (4+4-pin ATX12V and 8-pin ATX12V) or for older devices (4-pin Molex)

<https://superuser.com/questions/849265/is-there-a-difference-between-8-pin-eps12v-and-pci-e-connectors>

NEW QUESTION: 174

A technician is troubleshooting a classroom projector that shuts down after fifteen minutes of use. Which of the following should the technician do to resolve the issue?

- A. Replace the video input cable.
- B. Change the bulb.
- C. Clean the air filter.
- D. Swap the power cord.

Answer: C (LEAVE A REPLY)

Cleaning the air filter is the best action to resolve the issue of a projector that shuts down after fifteen minutes of use. A dirty air filter can cause overheating and trigger the projector's thermal protection mechanism. Replacing the video input cable, changing the bulb, or swapping the power cord are unlikely to solve the overheating issue

NEW QUESTION: 175

A customer purchased an active touch pen for a tablet PC. After the customer used the pen for a few days, it stopped working. Which of the following is most likely causing the issue?

- A. The tablet screen is scratched.
- B. The pen software is out of date.
- C. The pen batteries need recharging.
- D. Software updates disabled the pen.

Answer: C (LEAVE A REPLY)

The most likely answer is C. The pen batteries need recharging.

An active touch pen is a stylus that uses a battery to power features such as pressure sensitivity, buttons, or Bluetooth connectivity. If the pen batteries are low or depleted, the pen may stop working or become inaccurate¹. To fix this issue, you should recharge the pen batteries using the provided charger or cable, or replace them with new ones if they are not rechargeable¹.

The other options are less likely to cause the issue. A scratched tablet screen may affect the touch sensitivity, but it should not affect the pen functionality. The pen software may need updating to improve performance or compatibility, but it should not stop the pen from working altogether. Software updates may disable the pen if they change the settings or drivers, but this can be fixed by re-enabling the pen or reinstalling the drivers².

References:

1: Troubleshoot your Surface Pen - Microsoft Support

2: Windows 10 touch screen: active pen works, finger does not - Super User

NEW QUESTION: 176

A technician is receiving reports that the entire office sporadically loses network connectivity throughout the day. The technician determines the root cause to be EMI. Which of the following cable mediums would be the MOST cost effective without sacrificing system performance?

- A. Coaxial
- B. Shielded Cat 6
- C. Plenum Cat 5e
- D. Multimode fiber

Answer: B (LEAVE A REPLY)

In this situation, the MOST cost-effective cable medium that would not sacrifice system performance would be B. Shielded Cat 6. Electromagnetic interference (EMI) can disrupt network connectivity by interfering with the signals transmitted over network cables. Shielded Cat 6 cables are designed to provide protection against EMI by incorporating a layer of shielding material

around the cable's conductors. This shielding helps to prevent EMI from interfering with the signals transmitted over the cable.

NEW QUESTION: 177

A customer reports that access to the network fileshare has become much slower than usual, but local applications do not seem to have trouble. The technician checks the download bandwidth and finds no issues.

Which of the following should the technician check NEXT?

- A. Level of network utilization
- B. Customer use of two-factor authentication
- C. Amount of local drive space
- D. RAID array drive health

Answer: A (LEAVE A REPLY)

The technician should check the level of network utilization to determine if there is an excessive amount of traffic that may be causing the slow access to the network fileshare. This can be done using network monitoring tools to track the amount of data being transmitted on the network.

References: CompTIA A+ Certification Exam Objectives 1001, 2.9

NEW QUESTION: 178

A technician installed new firmware on the company's laser printers and has since been receiving multiple calls that information is garbled and looks like code. Only printers with the new firmware are having this issue. Which of the following steps should the technician complete NEXT?

- A. Change the language settings on the printers
- B. Reboot all the machines having the issues
- C. Reboot all the printers.
- D. Install an updated printer driver on the print server

Answer: D (LEAVE A REPLY)

The MOST efficient next step the technician should complete is to install an updated printer driver on the print server². The issue of information being garbled and looking like code could be related to a compatibility issue with the new firmware and the existing printer driver¹. The printer driver is responsible for converting the print job data into a format that the printer can understand and print².

NEW QUESTION: 179

A technician is preparing laptops for deployment to a medical department. The laptops require SSD-level encryption to be enabled, but BitLocker refuses to turn it on. An error message states that a BIOS-level setting has not been turned on. Which of the following should the technician check FIRST when troubleshooting this issue?

- A. Recorder the priority in Widows Boot Manager.
- B. Check to make sure Secure Boot is turned on.
- C. Ensure that the Trusted Platform Module enabled.

D. Verify that the latest updates are installed.

Answer: ([SHOW ANSWER](#))

The Trusted Platform Module (TPM) is a hardware component that provides cryptographic functions and secure storage for encryption keys, passwords, and certificates. BitLocker requires a TPM to be enabled and activated in the BIOS or UEFI settings of the laptop in order to use SSD-level encryption. The technician should check that the TPM is enabled and activated before trying to turn on BitLocker. Reference:

<https://partners.comptia.org/docs/default-source/resources/a-core-series-combined-content-guide>
(page 34)

NEW QUESTION: 180

An engineer discovers the reason a user is unable to access the internet on a company laptop is because the RJ45 port failed. Which of the following should the engineer do to immediately restore network connectivity?

- A. Update the Ethernet driver.
- B. Resolder the network connector.
- C. Replace the NIC.
- D. Connect to the WAP.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 181

A printer's output is producing solid black sheets without distinct lettering. A technician adjusted multiple settings, but the issue persists. Which of the following parts is most likely causing this issue?

- A. Imaging drum
- B. Heating element
- C. Fuser assembly
- D. Feed assembly

Answer: A ([LEAVE A REPLY](#))

The correct answer is A. Imaging drum.

An imaging drum is a part of a laser printer that transfers the toner to the paper. The imaging drum is coated with a photosensitive material that reacts to light and creates an electrostatic charge. The charge attracts the toner particles from the cartridge and forms an image on the drum. The image is then transferred to the paper by heat and pressure from the fuser assembly. If the imaging drum is defective or damaged, it can cause various printing problems, such as solid black pages, blank pages, streaks, spots, or faded prints. A solid black page can occur when the imaging drum is unable to create a charge pattern on its surface, and instead attracts all the toner from the cartridge. This can happen due to a faulty laser unit, a dirty or scratched drum surface, or a worn-out drum.

To fix this issue, the technician should replace the imaging drum with a new one. The imaging drum usually has a limited lifespan and needs to be replaced periodically. The technician should also check the toner cartridge and the fuser assembly for any signs of damage or leakage123

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NEW QUESTION: 182

A customer has contacted you about building two new desktops. The first desktop will be a gaming workstation. The customer requirements include:

Playing the newest games at a high frame rate

Fast game load times

Enough storage to have several games installed at once

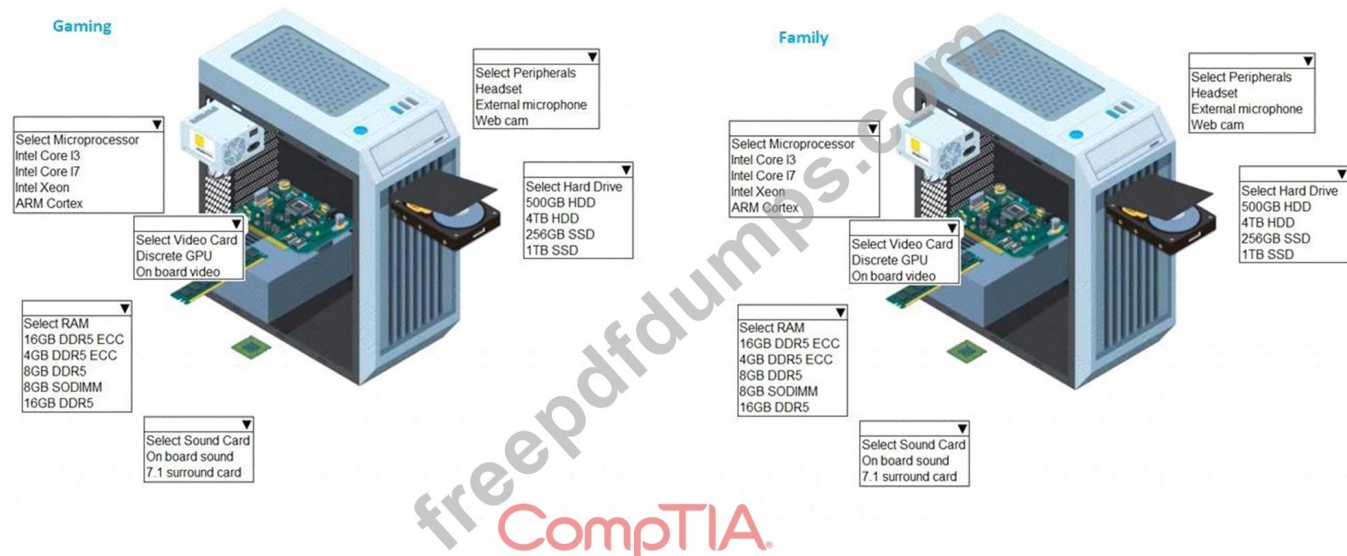
High-end audio

No concern about cost

Running the current Windows OS

The second workstation will be a family workstation. The requirements include:

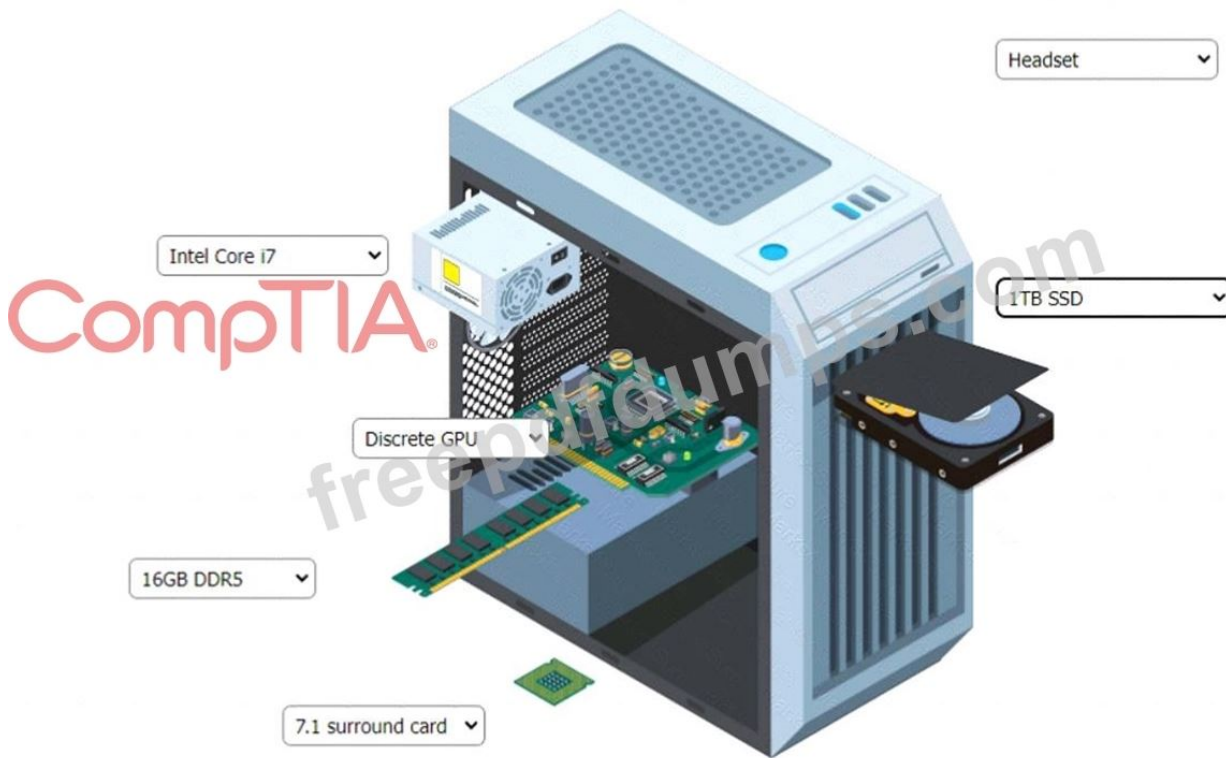
Capability for word processing, videoconferencing, and basic web surfing Minimal cost, as long as it meets the requirements Running the current Windows OS

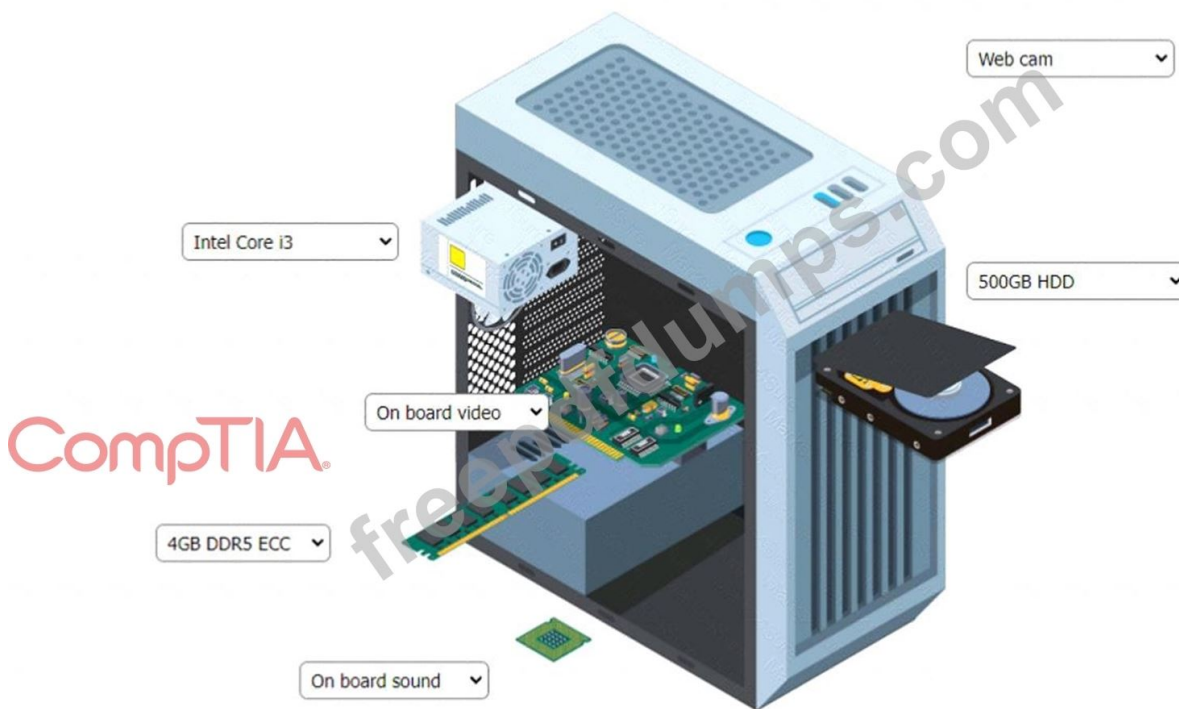


Answer:



Explanation:



**NEW QUESTION: 183**

A user, who is attempting to give a presentation via a projector in a conference room, reports the projector has video but no audio. Which of the following will MOST likely resolve the issue?

- A. Changing the input on the projector to VGA
- B. Changing the output on the PC to DVI
- C. Modifying the projector's refresh rate
- D. Utilizing an HDMI connection

Answer: D (LEAVE A REPLY)

The issue of video but no audio on a projector in a conference room can be resolved by utilizing an HDMI connection between the PC and the projector. HDMI supports both video and audio signals and is commonly used to connect a PC to a projector for presentations. Changing the input on the projector to VGA, changing the output on the PC to DVI, or modifying the projector's refresh rate will not resolve the issue. References:

CompTIA A+ Certification Exam: Core 1 - Objective 2.5

NEW QUESTION: 184

A technician is attempting to log in to a local company portal. When the technician types the URL into the address bar, the browser is unable to resolve and display the web page. The technician tries at another workstation, and the result is the same. Other web pages are not having any issues. Which of the following should the technician check first?

- A. DHCP reservations
- B. Static IP addresses
- C. Default gateway

D. DNS entries

Answer: D (LEAVE A REPLY)

The technician is unable to access the company portal website, but other websites work fine. This suggests an issue with resolving the specific URL of the company portal, which is a function of DNS.

Here's why other options are not the most likely cause:

DHCP reservations: This is not relevant as the issue persists even when the technician tries a different workstation, indicating a problem beyond individual device configuration.

Static IP addresses: Similar to DHCP reservations, static IPs are not likely the cause as both affected workstations are experiencing the issue.

Default gateway: While the default gateway is necessary for internet access, other websites are working, making it less likely to be the root cause.

References:

CompTIA A+ Certification Core 1 220-1101 Study Guide, Chapter 4: Networking, Section 4.2 Addressing and Naming

NEW QUESTION: 185

A user reports that a laptop's display is too dim. Which of the following should a technician try first to troubleshoot the issue?

- A. Check the refresh rate of the laptop display and adjust it if necessary.
- B. Make sure the correct cables are being used for the connection.
- C. Check the settings of the laptop display.
- D. Make sure the video card driver is updated.
- E. Check the resolution of the laptop display.

Answer: C (LEAVE A REPLY)

The first step to troubleshoot a dim laptop display is to check the settings of the laptop display, such as the brightness level, the power plan, and the adaptive brightness feature. These settings can affect the brightness of the screen and can be adjusted by the user or by Windows automatically. If the settings are not optimal for the user's preference or environment, the screen may appear too dim even at full brightness. Therefore, the technician should check and modify these settings before trying other solutions.

References:

The Official CompTIA A+ Core 1 Student Guide (Exam 220-1101), Chapter 2: Configure and Support PC Components, Section 2.5: Compare and contrast various connection interfaces and explain their purpose, Page

941

Why Is My Screen So Dark on Full Brightness: 6 Fixes to Use2

NEW QUESTION: 186

A video game developer is requesting a new desktop computer with eight sticks of memory. The developer wants the desktop computer to take advantage of all available memory bandwidth without sacrificing performance. Which of the following would be the BEST solution?

- A. Triple-channel with DDR5 ECC RAM
- B. Quad-channel with DDR4 RAM
- C. Quad-channel with DDR5 SODIMM
- D. Dual-channel with DDR4 RAM

Answer: B (LEAVE A REPLY)

Quad-channel memory architecture allows the CPU to access four memory modules simultaneously, increasing the memory bandwidth and performance. DDR4 RAM is a type of memory that has higher speed and lower power consumption than DDR3. SODIMM is a smaller form factor of memory that is typically used in laptops, not desktops. ECC RAM is a type of memory that can detect and correct errors, but it is more expensive and slower than non-ECC RAM. Triple-channel memory architecture is less common and less efficient than quad-channel.

References: <https://www.comptia.org/certifications/a#examdetails>

<https://www.comptia.org/blog/what-is-ddr4-ram> <https://www.comptia.org/blog/what-is-quad-channel-memory>

NEW QUESTION: 187

A company has implemented a policy that allows employees to use personal devices to perform work duties.

Which of the following policies should the technician activate to protect company information?

- A. MFD
- B. MAM
- C. MFA
- D. MDM

Answer: D (LEAVE A REPLY)

MDM (Mobile Device Management) is a policy that allows the technician to remotely manage, secure, and monitor the personal devices that employees use for work purposes. MDM can enforce security settings, such as passwords, encryption, and antivirus software, on the personal devices. MDM can also remotely wipe or lock the devices in case of loss, theft, or termination of employment. MDM can protect company information by preventing unauthorized access, data leakage, or malware infection on the personal devices.

References

What is Mobile Device Management (MDM)?

Chapter 2: Networking

NEW QUESTION: 188

A technician recently installed a new printer that is being shared over the network via a 64-bit Windows Print Server. Two users, who have computers with a legacy OS, are unable to print to this new printer. Which of the following should the technician do to resolve this issue?

- A. Enable 32-bit drivers on the Print Server.
- B. Enable Print Spooler and restart the computer.
- C. Run Windows Update on the users' computers_
- D. Update the computers to a 64-bit driver.

Answer: A (LEAVE A REPLY)

The correct answer is A. Enable 32-bit drivers on the Print Server.

A print server is a computer or device that manages the printing requests from multiple clients over a network.

A print server can share one or more printers with different types of clients, such as Windows, Mac, or Linux.

However, to ensure compatibility and functionality, the print server must have the appropriate drivers for each printer and each client¹.

A driver is a software component that enables the communication and interaction between a device and an operating system. A driver must match the specifications and features of the device, as well as the architecture and version of the operating system. A driver that is incompatible with either the device or the operating system may cause errors, malfunctions, or performance issues².

In this scenario, the technician installed a new printer that is being shared over the network via a 64-bit Windows Print Server. This means that the print server has a 64-bit operating system and a 64-bit driver for the printer. However, two users who have computers with a legacy OS (an older or outdated operating system) are unable to print to this new printer. This may be because their computers have a 32-bit operating system and require a 32-bit driver for the printer.

To resolve this issue, the technician should enable 32-bit drivers on the Print Server. This means that the technician should install and configure a 32-bit driver for the printer on the print server, in addition to the existing 64-bit driver. This way, the print server can support both 64-bit and 32-bit clients, and allow them to print to the same printer^{3,4}.

To enable 32-bit drivers on a Windows Print Server, the technician can follow these steps⁴:

- * On the print server, open Control Panel and select Devices and Printers.
- * Right-click on the printer that needs a 32-bit driver and select Printer Properties.
- * Click on the Sharing tab and check the box that says Share this printer.
- * Click on Additional Drivers and check the box that says x86 (for 32-bit).
- * Click OK and follow the instructions to install and configure the 32-bit driver.

For more information about print servers, drivers, and compatibility issues, you can refer to the following web search results: What is a Print Server?, What is a Device Driver?, How to Install Additional Drivers for Shared Printers, How to Enable 32-Bit Drivers on Windows Server.

NEW QUESTION: 189

A laser printer, which is located in a large office, has a leaky toner cartridge. Some toner spilled into the printer when the cartridge was removed.

Which of the following is the best way to clean up the toner?

- A. Magnetic duster

- B. ESD-safe vacuum
- C. Compressed air
- D. Damp cloth

Answer: B (LEAVE A REPLY)

The best way to clean up the toner that spilled into the printer is to use an ESD-safe vacuum. An ESD-safe vacuum is a special type of vacuum that has a filter that traps toner particles and prevents them from escaping into the air. An ESD-safe vacuum also has a grounding wire that prevents static electricity from building up and damaging the printer's components. Toner is electrically conductive and can cause short circuits or sparks if it contacts sensitive parts of the printer. Therefore, using an ESD-safe vacuum is the safest and most effective method to remove the toner from the printer.

Other methods, such as a magnetic duster, compressed air, or a damp cloth, are not recommended for cleaning up toner spills. A magnetic duster is a device that uses a magnet to attract toner particles, but it can also damage the printer's components that rely on magnetism, such as the drum or the fuser. Compressed air can blow the toner around and create a cloud of dust that can be harmful to breathe or contaminate other parts of the printer. A damp cloth can smear the toner and make it harder to remove, as well as cause corrosion or rust on the printer's metal parts.

References:

- * Cleaning up Toner Spills or Leaks Inside the Printer - Xerox Support¹
- * How to Clean Up Toner Spills - YouTube²
- * How to Clean up a Laser Toner Spill - Cartouches Certifiees³

NEW QUESTION: 190

A technician who works in a high-security environment needs to set up a laptop with triple monitors for a new security employee. All USB ports are disabled due to security policies. Which of the following should the technician do to BEST meet the requirements?

- A. Install a splitter cable
- B. Install a discrete graphics card.
- C. use an HDMI switch.
- D. Implement a docking station.

Answer: D (LEAVE A REPLY)

This is because a docking station can connect multiple monitors to a laptop without using USB ports, which are disabled in this scenario. A splitter cable would only allow two monitors to be connected, not three. A discrete graphics card would require opening the laptop and installing hardware, which may not be feasible or allowed in a high-security environment. An HDMI switch would only allow one monitor to be active at a time, not all three simultaneously.

NEW QUESTION: 191

A client wants to connect an external keyboard to an Android tablet. Which of the following connection types are appropriate for this task? (Select TWO).

- A. DVI
- B. Infrared
- C. Lightning
- D. USB-C
- E. PS/2
- F. Bluetooth

Answer: D,F (LEAVE A REPLY)

The appropriate connection types for connecting an external keyboard to an Android tablet are USB-C and Bluetooth123.

NEW QUESTION: 192

A user reports that a PC occasionally fails to boot. The user reboots the PC, but the performance is degrading.

The technician hears a strange, repetitive, ticking noise coming from the PC. Which of the following should the technician do first?

- A. Try to extract data.
- B. Reseat the RAM modules.
- C. Inspect the fan.
- D. Check the CD tray.

Answer: A (LEAVE A REPLY)

If a user reports that a PC occasionally fails to boot and makes a strange, repetitive, ticking noise, it indicates that the hard drive is suffering from a mechanical failure, also known as the click of death. This means that the hard drive is likely to fail completely soon and lose all the data stored on it. Therefore, the technician should try to extract or backup the data as soon as possible before replacing the hard drive with a new one.

NEW QUESTION: 193

A technician logs on to a PC and inserts an encrypted USB drive. When opening File Explorer, the technician cannot see the USB drive. Which of the following tools should the technician use to see all drives?

- A. DiskPart
- B. Diskmgmt
- C. Disk Cleanup
- D. BitLocker

Answer: B (LEAVE A REPLY)

The tool that the technician should use to see all drives is Diskmgmt. Diskmgmt is a Windows utility that allows you to manage disk drives and partitions on your computer. It can be used to view all drives, including USB drives, that are connected to the computer12.

NEW QUESTION: 194

A user is trying to play a DVD on a projector. The user can hear the audio; however, the projector is showing an error message that states:

HDMI Blocked due to Copy Protection

Which of the following is the MOST likely cause of the error?

- A. The HDMI cannot carry the signal from the DVD to the projector.
- B. The user needs to switch from HDMI to a cable standard such as DisplayPort.
- C. The projector does not support the necessary HDCP protocol.
- D. The user needs to enable copy-protected sources in the projector's settings.

Answer: C (LEAVE A REPLY)

The Official CompTIA A+ Core 1 and Core 2 Student Guide (Exams 220-1001 and 220-1002) | 193 Protected content. If you encounter an error that indicates unauthorized content or an HDCP error: * DVI, HDMI, DisplayPort, and Thunderbolt all provide support for the Digital Rights Management (DRM) mechanism High-bandwidth Digital Content Protection (HDCP). HDCP allows a content source (such as a Blu-ray disc) to disable itself if the display adapter and monitor and/or speaker system do not support HDCP and fail to authenticate themselves with the playback source. There have been various iterations of HDCP (at time of writing the current version is 2.2) and backward-compatibility can be problematic as authentication may fail between devices that support different versions of the standard.

NEW QUESTION: 195

A user indicates that a laptop is not performing well. A technician determines the laptop has a conventional HDD and that installing a SSD will improve the laptop's performance. Which of the following lists of steps describes what the technician should do to complete the upgrade with the LEAST amount of downtime?

- A. 1. Remove the HDD and install the SSD in the laptop.
2. Install the operating system and necessary applications on the SSD.
3. Connect the HDD to the laptop using a USB enclosure.
4. Copy over all of the user's data.
- B. 1. Leave the HDD in place.
2. Install the SSD in an empty drive bay.
3. Leave all data intact on the HDD.
4. Confirm the SSD is accessible in the operating system.
- C. 1. Connect the SSD to the laptop using a USB enclosure.
2. Clone the HDD to the SSD using cloning software.
3. Remove the HDD.
4. Install the SSD.
- D. 1. Remove the HDD and install the SSD in the laptop.
2. Install the operating system and necessary applications on the SSD.
3. Install the HDD in a USB enclosure.
4. Provide the external HDD for the user to access the old data.

Answer: C (LEAVE A REPLY)

The best way to complete the upgrade with the least amount of downtime is to clone the HDD to the SSD using cloning software, and then replace the HDD with the SSD. This way, the user does not have to reinstall the operating system and applications, or copy over their data manually. The other options would either take more time or result in data loss or inaccessibility. Verified References: [How to Upgrade Your Laptop's Hard Drive to an SSD].

NEW QUESTION: 196

Which of the following twisted pair cables supports 10GBASE-T data transmission speed?

- A. Cat 3
- B. Cat 5
- C. Cat 5e
- D. Cat 6a

Answer: (SHOW ANSWER)

The correct answer is D. Cat 6a.

Cat 6a (augmented) is a type of twisted pair cable that supports 10GBASE-T data transmission speed.

10GBASE-T is an Ethernet standard that can deliver 10 gigabits per second (Gbps) over copper cables. Cat 6a can support this speed up to a distance of 100 meters, which is the same as Cat 5e and Cat 6 for lower speeds.

Cat 6a has better shielding and crosstalk prevention than Cat 6, which makes it more suitable for high-frequency signals.

Cat 3, Cat 5, and Cat 5e are not capable of supporting 10GBASE-T data transmission speed. Cat 3 can only support up to 10 Mbps, Cat 5 can only support up to 100 Mbps, and Cat 5e can only support up to 1 Gbps.

These cables have lower bandwidth, higher attenuation, and more interference than Cat 6a.

Reference: Network Cables - CompTIA A+ 220-1101 - 3.1 - Professor Messer IT Certification Training Courses

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NEW QUESTION: 197

A user entered a help desk ticket stating the latest calendar updates have not appeared on the user's corporate mobile device for several days, even though updates do appear on the user's laptop. Which of the following actions will MOST likely enable calendar alerts?

- A. Installing a third-party calendar application and synchronizing it with the corporate calendar
- B. Ensuring the corporate password is saved correctly in the calendar application
- C. Remotely wiping the mobile device and reinstalling all applications
- D. Checking that the ringer volume on the device is high enough to be audible

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 198

An administrator notices that on an intermittent basis the virtual machines are running slowly. The virtual machines are correctly sized, and the hardware has enough free resources to cope with demand. Which of the following is most likely the cause?

- A. The physical servers are not able to draw enough power
- B. The physical servers do not have enough network bandwidth.
- C. The physical servers are throttling due to overheating
- D. The physical servers are contending for resources

Answer: ([SHOW ANSWER](#))

The physical servers are throttling due to overheating. This means that the servers are reducing their performance to prevent damage from excessive heat. This can cause the virtual machines to run slowly, as they depend on the physical servers' resources. To avoid this, the servers need adequate cooling and ventilation, as well as monitoring of their temperature and fan speed. According to the CompTIA Core1 objectives, one of the environmental factors that can affect system performance is overheating. A research paper on thermal management of servers also states that overheating can lead to performance degradation, reliability issues, and energy inefficiency.

NEW QUESTION: 199

Some keys on a user's laptop keyboard are sticking. Which of the following should the user use to clean the laptop keyboard?

- A. Antistatic cloth
- B. Compressed air
- C. Cleaning wipe
- D. Soap and water

Answer: ([SHOW ANSWER](#))

To clean sticking keys on a laptop keyboard, using compressed air is the most effective and safest method.

Compressed air can dislodge and remove crumbs, dust, and other debris from under the keys without risking damage to the keyboard's electronic components or the keys themselves. This approach is non-invasive and widely recommended for keyboard maintenance.

References:

* CompTIA A+ Core 1 (220-1101) Exam Objectives, particularly sections related to maintaining and cleaning computer components and peripherals, which would cover best practices for keyboard cleaning.

* General computer maintenance guidelines, highlighting the use of compressed air as a standard tool for cleaning keyboards and other computer parts where direct contact cleaning is not advisable.

NEW QUESTION: 200

A technician is upgrading the Wi-Fi card on a laptop. Which of the following should the technician do first?

- A. Disconnect the Wi-Fi antenna cables.
- B. Set the physical Wi-Fi switch to disabled.
- C. Remove the power cable.
- D. Install card drivers.

Answer: C (LEAVE A REPLY)

The first step a technician should take before upgrading the Wi-Fi card on a laptop, or performing any internal hardware modifications, is to remove the power cable to ensure the device is not powered on. This is a crucial safety measure to prevent any electrical damage to the laptop or the technician. It also helps in avoiding any unintended changes or data loss that might occur if the device is powered on during the upgrade process.

References:

* CompTIA A+ Core 1 (220-1101) Exam Objectives, specifically the hardware domain that discusses best

* practices for safety and the procedures to follow when upgrading or replacing internal hardware components, such as a Wi-Fi card.

* General safety guidelines for performing hardware upgrades or repairs, emphasizing the importance of ensuring the device is powered off and disconnected from any power sources to avoid electrical hazards.

NEW QUESTION: 201

A technician needs to fix a computer that received a non-specific error after a scheduled computer restart.

Which of the following is the best way to start troubleshooting?

- A. Update all of the firmware.
- B. Roll back all of the recent updates.
- C. Review the system event log.
- D. Search for the error on the internet.

Answer: C (LEAVE A REPLY)

The best way to start troubleshooting a non-specific error after a scheduled computer restart is to review the system event log. The system event log is a record of significant events that occur on the computer, such as errors, warnings, or information messages. The system event log can help identify the cause of the error and provide possible solutions. The answer is C.

To learn more about troubleshooting methods and tools, you can refer to the CompTIA A+ Certification Exam Core 1 Objectives1 or the CompTIA A+ Core 1 (220-1101) Certification Study

Guide2. These resources cover the topics that are tested on the CompTIA A+ Core 1 exam, which is one of the two exams required to earn the CompTIA A+ certification. The CompTIA A+ certification validates your skills and knowledge as an entry-level IT professional.

NEW QUESTION: 202

A company has a dot matrix printer that uses carbon paper. The company reports that the first page is printing too light, although the following pages are still legible. Which of the following MOST likely needs to be fixed?

- A. The print drum is worn and loose causing the printing to be light in places
- B. The ribbon is low on ink or missing and must be replaced to get proper output
- C. The heating element has failed, and a new one needs to be installed for proper transfer
- D. The wrong type of filament is loaded, preventing it from sticking correctly
- E. The fuser assembly is not calibrated properly, causing it to impact the paper too hard

Answer: B (LEAVE A REPLY)

Dot Matrix printers do not use heat, they use a pin striking an inked ribbon (for the first copy, the subsequent copies are handled by the carbon paper) The ribbon is low on ink or missing and must be replaced to get proper output in a dot matrix printer that uses carbon paper. References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 361

NEW QUESTION: 203

A startup company is outgrowing its current office space and is requiring employees to work remotely. The company must comply with government-enforced requirements to safeguard all aspects of data, so the IT department plans to maintain complete control over users' operating systems. Which of the following should the IT department implement?

- A. VDI
- B. IaaS
- C. VPN
- D. SaaS

Answer: A (LEAVE A REPLY)

The IT department should implement VDI. Virtual Desktop Infrastructure (VDI) is a technology that allows users to access a desktop operating system from a remote location. VDI provides complete control over users' operating systems, which is important for safeguarding data. VDI also provides a secure way to access data from remote locations, which is important for compliance with government-enforced requirements¹.

NEW QUESTION: 204

A technician powers on a PC and its monitor and sees the following error message:

No input signal detected

The display lights on the computer are on. Which of the following is a possible solution?

- A. Changing the BIOS settings
- B. Changing the connector setting on the monitor

- C. Checking the power plug on the monitor
- D. Checking the power plug on the PC

Answer: B (LEAVE A REPLY)

Changing the connector setting on the monitor is a possible solution for a PC and its monitor that display the error message "No input signal detected". This error can be caused by an incorrect input selected on the monitor, so changing the connector setting to the correct input should resolve the issue. References: CompTIA A+ Certification Exam Objectives 1001, 1.10 Top of Form Regenerate response Bottom of Form

NEW QUESTION: 205

A technician receives an alert indicating all VMs are down. After some troubleshooting, the technician discovers the network is out of space. To resolve the issue, the technician decides to add more space. Which of the following network types will the technician be working with?

- A. SCSI
- B. NAC
- C. SAN
- D. WISP

Answer: (SHOW ANSWER)

A storage area network (SAN) is the type of network that the technician will be working with when adding more space to resolve the issue of all VMs being down due to the network being out of space. A SAN is a network that provides access to consolidated and block-level data storage, which can be used for virtualization and backup purposes. SCSI is a type of interface that connects devices such as hard drives and optical drives to a computer. NAC is a type of security solution that controls access to a network based on policies and device compliance. WISP is a type of internet service provider that delivers wireless broadband access over long distances.

NEW QUESTION: 206

A technician is troubleshooting a PC that has been experiencing random system crashes. The technician has already checked the hard drive and the RAM, and both were in good working order. Which of the following steps should the technician take next to troubleshoot the system crashes?

- A. Test the fan speed.
- B. Disable the USB ports
- C. Replace the PSU
- D. Decrease the RAM timings.

Answer: C (LEAVE A REPLY)

A PSU (power supply unit) is a component that converts the AC power from the wall outlet into DC power that the PC components can use. A faulty or failing PSU can cause random system crashes, as well as other problems such as noise, overheating, or no power at all. A PSU can fail due to various reasons, such as age, dust, power surges, or poor quality.

To troubleshoot a PSU, the technician can use a multimeter to measure the voltage output of the PSU connectors. The voltage should be within the acceptable range of the specifications. For example, the 12V rail should be between 11.4V and 12.6V. If the voltage is too low or too high, the PSU is likely defective and needs to be replaced.

Alternatively, the technician can try swapping the PSU with a known good one and see if the system crashes persist. If the system works fine with a different PSU, then the original PSU is the problem and should be replaced.

The other options are not likely to fix the random system crashes. Testing the fan speed may help to diagnose overheating issues, but it is not related to the PSU. Disabling the USB ports may help to eliminate potential conflicts with USB devices, but it is not related to the PSU. Decreasing the RAM timings may help to improve performance and stability, but it is not related to the PSU.

References:

* Fix Random PC Crashes: 10 Steps to Identify and Fix Issues

* Why Does Windows Crash? The 9 Most Common Reasons

NEW QUESTION: 207

A hardware technician is configuring a laptop, and the network administrator requires the network settings to be static. The technician successfully pings the servers by IP address but cannot ping the UNC path. Which of the following is the cause of this issue?

- A. Domain Name System
- B. Gateway
- C. Subnet
- D. IP address

Answer: A ([LEAVE A REPLY](#))

The cause of the issue is likely due to a DNS resolution issue. While the technician can ping the servers by IP address, they cannot ping the UNC path, indicating an issue with the name resolution. This can be resolved by configuring the correct DNS server settings.

NEW QUESTION: 208

An online retailer is working to support increased sales and boost server capacity by installing additional servers. Which of the following should be used to ensure each new server will be properly utilized?

- A. Virtualization
- B. DNS
- C. Clustering
- D. Load balancer

Answer: A ([LEAVE A REPLY](#))

Virtualization is a technology that allows creating multiple virtual machines (VMs) on a single physical server.

Each VM can run its own operating system and applications, and share the resources of the physical server, such as CPU, memory, disk, and network¹. Virtualization can help improve server utilization and management in several ways, such as:

*Reducing the number of physical servers needed to run the same workload, which can lower the costs of hardware, power, cooling, and maintenance¹.

*Increasing the flexibility and scalability of the server infrastructure, as VMs can be created, deleted, moved, or resized on demand without affecting the other VMs or the physical server¹.

*Enhancing the availability and reliability of the server applications, as VMs can be backed up, restored, or migrated to another physical server in case of failure or maintenance¹.

*Improving the security and isolation of the server data, as VMs can be configured with different levels of access and protection, and separated from each other and the physical server¹.

NEW QUESTION: 209

Which of the following cloud models allows an organization to retain data on site as well as in the cloud?

- A. Public
- B. Community
- C. Hybrid
- D. Private

Answer: C (LEAVE A REPLY)

The correct answer is C. Hybrid.

A hybrid cloud model is a combination of two or more different cloud models, such as public, private, community, or on-premises. A hybrid cloud model allows an organization to retain data on site as well as in the cloud, depending on the security and performance requirements of the data. A hybrid cloud model can also provide flexibility, scalability, and cost-efficiency for the organization¹².

A public cloud model is a cloud service that is available to anyone over the internet. A public cloud model does not allow an organization to retain data on site, as the data is stored and managed by a third-party provider. A public cloud model can offer lower costs, higher availability, and easier access, but it may have less security and control over the data¹².

A community cloud model is a cloud service that is shared by a group of organizations that have similar needs or goals. A community cloud model does not allow an organization to retain data on site, as the data is stored and managed by a third-party provider or one of the participating organizations. A community cloud model can offer higher security, privacy, and compliance, but it may have higher costs and lower availability than a public cloud model¹².

A private cloud model is a cloud service that is exclusively used by a single organization. A private cloud model can allow an organization to retain data on site or in the cloud, depending on the configuration of the private cloud. A private cloud model can offer higher security, control, and customization, but it may have higher costs and lower scalability than a public cloud model¹².

NEW QUESTION: 210

A user's Windows computer started running slowly after the installation of a CAD program. The computer has intermittent timeouts and often has to be rebooted to restore functionality. The computer seems to work correctly if the application is not running. Which of the following should the technician do NEXT to help troubleshoot the issue? (Select TWO).

- A. Replace the video card.
- B. Research the requirements of the application.
- C. Install a new case fan.
- D. Run chkdsk on the HDD.
- E. Check the Event Viewer logs.
- F. Reinstall the application.

Answer: (SHOW ANSWER)

The technician should research the requirements of the CAD program to see if the computer meets them or needs any upgrades or updates to run it properly. The technician should also check the Event Viewer logs to see if there are any errors or warnings related to the application or system performance that could indicate the cause of the problem or suggest a solution.

Reference:

<https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (pages 43, 47)

NEW QUESTION: 211

When a user touches or swipes across an external touch screen, the image flickers but no input is registered on the presentation laptop. A technician verifies that the external touch screen appears free from physical damage.

Which of the following should the technician do next?

- A. Reboot the LCD touch panel and laptop.
- B. Check the cables connecting to the laptop.
- C. Verify the correct input source is set on the laptop.
- D. Replace the laptop with a new device that is known to work.
- E. Inspect the LCD touch panel for dead pixels or burn-in.

Answer: B (LEAVE A REPLY)

When an external touch screen exhibits flickering without registering input on a presentation laptop, the first troubleshooting step should be to check the cables connecting the touch screen to the laptop. This includes ensuring that the cables are securely connected, undamaged, and are the correct type for transmitting both video and touch input data. Faulty, loose, or incorrect cabling can lead to issues like flickering and unregistered inputs.

References:

* CompTIA A+ Core 1 (220-1101) Exam Objectives, particularly the sections dealing with peripheral devices and troubleshooting connectivity and performance issues related to external devices like touch screens.

* Basic troubleshooting principles for peripheral devices, emphasizing the importance of verifying physical connections and cable integrity when encountering issues with device functionality.

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NEW QUESTION: 212

Which of the following devices would a punchdown tool most likely be utilized on?

- A. Cable modem
- B. Managed switch
- C. POE injector
- D. Patch panel

Answer: D (LEAVE A REPLY)

A patch panel is a device that connects multiple network cables in an organized and convenient way. A patch panel has a number of ports that correspond to different cables, such as Ethernet, coaxial, or fiber-optic cables.

A patch panel can help simplify the wiring and management of a network, as well as provide flexibility and scalability for adding or changing network devices.

A punchdown tool is a tool that can be used to terminate network cables into a patch panel. A punchdown tool has a blade that cuts and pushes the wires into the slots or contacts of the patch panel. A punchdown tool can help create a secure and reliable connection between the network cables and the patch panel.

NEW QUESTION: 213

Which of the following describes the operational difference between hubs and switches when transmitting data to a specific computer inside the network?

- A. Switches only send data to the specific computer, while hubs send data to all computers inside the network.
- B. Switches compress data while hubs send uncompressed data
- C. Switches receive data and route it to all computers inside the network while hubs receive data and do not route
- D. Switches scramble data, while hubs send data in the original form.

Answer: A (LEAVE A REPLY)

Switches only send data to the specific computer, while hubs send data to all computers inside the network.

References: CompTIA A+ Certification Exam Guide, Exam 220-1001, Page 323

NEW QUESTION: 214

A user who is facilitating a videoconference reports that the participants can be heard. However, when the user attempts to speak, none of the participants can hear the user. Which of the following is the FIRST step the technician should take?

- A. Restart the Videoconference.
- B. Replace the laptop.
- C. Check the audio inputs.
- D. Try another microphone.

Answer: C (LEAVE A REPLY)

The technician should check that the audio inputs are configured correctly for the videoconference software and that they are not muted or disabled. The technician should also make sure that the microphone is plugged in properly and that it is not faulty or damaged. If possible, the technician should test the microphone on another device or use another microphone on the same device to isolate the problem. Reference:

<https://partners.comptia.org/docs/default-source/resources/a-core-1-content-guide> (page 11)

NEW QUESTION: 215

A company wants to add virtual servers to handle unusually high web traffic usage. Which of the following is the most efficient way?

- A. Community cloud
- B. File synchronization
- C. Rapid elasticity
- D. Cloud VDI

Answer: (SHOW ANSWER)

Rapid elasticity is the ability of a cloud service to scale up or down the resources (such as virtual servers, storage, bandwidth, etc.) according to the demand of the users. This is an efficient way to handle unusually high web traffic usage, as it allows the company to provision more virtual servers when needed and release them when not needed, without wasting resources or paying for unused capacity. Rapid elasticity also improves the performance and availability of the web service, as it can adjust to the fluctuations in traffic and avoid overloading or downtime.

References

Rapid Elasticity in Cloud Computing: On-Demand Scaling for Business

Chapter 4: Virtualization and Cloud Computing

NEW QUESTION: 216

After a corporate office upgraded its Ethernet wiring, a number of users are unable to access the internet. A technician establishes a theory for troubleshooting the issue and tests it, but the theory is incorrect. Which of the following should the technician do next?

- A. Document the findings.
- B. Gather additional details.
- C. Escalate the problem.
- D. Identify user changes.

Answer: (SHOW ANSWER)

The correct answer is B. Gather additional details.

According to the CompTIA troubleshooting process for the A+ certification exams¹, the technician should gather additional details after testing a theory that is incorrect. This step helps to identify the problem more accurately and establish a new theory of probable cause. The other options are not appropriate for this stage of the troubleshooting process. Documenting the findings, escalating the problem, and identifying user changes are steps that should be done later in the process, after determining the cause and implementing a solution¹.

NEW QUESTION: 217

A user in a medical office contacts a technician regarding a printer that is used to print A4-sized labels. After the labels are printed, they mistakenly contain white space in the middle of the page. Which of the following would MOST likely be the cause?

- A. Contaminated fuser
- B. Worn rollers
- C. A misfeed
- D. Page orientation

Answer: D (LEAVE A REPLY)

The most likely cause of the issue is that the page orientation is incorrect. The printer may be set to print labels in a different orientation than the orientation of the label sheet¹.

NEW QUESTION: 218

A user calls the help desk for assistance configuring an Android phone with a new NFC-enabled speaker that will be used for an upcoming conference call. The user was unable to direct the phone's audio to the NFC speaker. Which of the following sequences should the help desk technician walk the customer through to accomplish this task?

- A. Enable NFC and Bluetooth on the Android phone. From the Android phone's Bluetooth settings menu for Connected Devices, select the Previously Connected Devices option. Select a listed device that most closely matches the speaker. Tap to accept the connection to the speaker when the prompt is displayed on the phone's screen.
- B. Enable NFC on the speaker. Ensure the speaker is less than 33ft (10m) from the Android phone. On the phone's Bluetooth settings menu for Connected Devices, select Pair New Device. Tap to accept the connection to the speaker when the prompt is displayed on the phone's screen.
- C. Enable NFC and Bluetooth on the Android phone. Tap and hold the Android phone to the spot on the speaker where the NFC logo is displayed. Accept the connection to the speaker when the prompt is displayed on the phone's screen.
- D. Enable Wi-Fi on the speaker. Enable Wi-Fi on the Android phone. Tap and hold the Android phone to the spot on the speaker where the NFC logo is displayed. Accept the connection to the speaker when the prompt is displayed on the phone's screen.

Answer: (SHOW ANSWER)

NEW QUESTION: 219

A technician is installing a power supply in a workstation that contains a high-end graphics card, a 3GHz processor, and two cooling fans. Which of the following specifications should the technician verify before installing the new power supply?

- A. The wattage
- B. The chassis ventilation
- C. The motherboard's firmware
- D. The cables' color coding

Answer: (SHOW ANSWER)

The most important specification that the technician should verify before installing the new power supply is A.

The wattage.

The wattage of a power supply is the measure of how much power it can deliver to the components of a computer. The wattage of a power supply should match or exceed the total power consumption of the computer, otherwise the computer may not function properly or may experience instability, overheating, or damage¹².

To calculate the total power consumption of a computer, the technician can use a tool such as a power supply calculator, which can estimate the required wattage based on the components and features of the computer. For example, using one of the web search results³, I entered the following information:

*CPU: 3 GHz processor

*GPU: High-end graphics card

*RAM: 16 GB DDR4

*SSD: 1 x 500 GB

*HDD: 1 x 1 TB

*Optical Drive: 1 x DVD-RW

*Fans: 2 x 120 mm

*Other Devices: Keyboard, Mouse, Monitor

The tool estimated that the recommended PSU wattage for this computer is 550 W. Therefore, the technician should verify that the new power supply has at least this wattage before installing it.

The chassis ventilation, the motherboard's firmware, and the cables' color coding are not as important as the wattage for installing a new power supply. The chassis ventilation is related to the airflow and cooling of the computer, which can affect the performance and lifespan of the components. The motherboard's firmware is the software that controls the basic functions of the motherboard, such as booting, input/output, and memory management. The cables' color coding is a standard way of identifying the function and polarity of the wires in a power supply. However, none of these specifications are directly related to the power delivery or compatibility of the new power supply.

NEW QUESTION: 220

An organization maintains various record types, including health and criminal justice records. Which of the following cloud environments is the organization MOST likely to use to limit the attack surface?

- A. Public
- B. Hybrid
- C. Community
- D. Private

Answer: D ([LEAVE A REPLY](#))

Private cloud environments are designed for use by a single organization and offer the greatest control over security and access to data. They are typically used for sensitive or confidential data, such as health and criminal justice records. Public cloud environments are shared by multiple organizations and offer less control over security and access to data. Hybrid cloud environments combine public and private clouds, while community clouds are shared by multiple organizations with similar needs. References: CompTIA A+ Certification Exam: Core 1 - Page 234

NEW QUESTION: 221

Which of the following network devices should a technician install in order to isolate voice traffic on the network?

- A. Network tap
- B. Managed switch
- C. Hub
- D. DSL filter

Answer: ([SHOW ANSWER](#))

A managed switch is a network device that can be configured to create VLANs (Virtual Local Area Networks), which are logical segments of a network that isolate traffic based on criteria such as function, security, or quality of service. A VLAN can be used to isolate voice traffic on the network, which can improve the performance and security of voice over IP (VoIP) applications. A network tap, a hub, and a DSL filter are not capable of creating VLANs.

Reference: [CompTIA A+ Core 1 (220-1101) Certification Study Guide], page 32.

NEW QUESTION: 222

A technician is troubleshooting a computer that is not completing POST and gets stuck at the manufacturer logo screen. All internal, removable parts have been disconnected and only the minimum parts necessary to POST were reconnected. However, the symptoms remain the same. Which of the following should the technician try NEXT?

- A. Test the RAM in different slots, one at a time.
- B. Remove and test the power supply.
- C. Replace the motherboard.
- D. Change the CMOS battery.

Answer: A ([LEAVE A REPLY](#))

Every computer has a CMOS battery and when you remove that battery, your computer will work almost the same as before. The only difference is you won't be able to save any settings in the BIOS, which includes the date and time. If your PC is not booting after removing CMOS, you need to make sure that you have your CPU and RAM connected because it's not possible for your system to boot without those.. Your motherboard and computer will be able to boot just fine even without a CMOS battery present. The only issue is all your BIOS settings will be reset and the time and date will be inaccurate. You will also be unable to save BIOS settings.

NEW QUESTION: 223

A user reports that a printer pulls multiple sheets of paper from the paper tray instead of a single sheet. Which of the following should a technician investigate to resolve this issue? (Select two).

- A. Toner cartridge
- B. Tractor feed
- C. Pickup roller
- D. Separation pad
- E. Duplexer
- F. Fuser

Answer: ([SHOW ANSWER](#))

The correct answers are C. Pickup roller and D. Separation pad.

A pickup roller is a rubber wheel that grabs the paper from the paper tray and feeds it into the printer. A separation pad is a small piece of cork or rubber that prevents more than one sheet of paper from being fed at a time. If the pickup roller or the separation pad is worn out, dirty, or damaged, it can cause the printer to pull multiple sheets of paper instead of a single sheet. This can lead to paper jams, misprints, or wasted paper.

To resolve this issue, a technician should investigate the condition of the pickup roller and the separation pad and replace them if necessary. The technician should also clean the paper tray and make sure the paper is loaded correctly and not stuck together.

A toner cartridge is a component that contains the toner powder used to create the printout on a laser printer. A tractor feed is a mechanism that uses sprockets to move continuous paper through a dot matrix printer. A duplexer is a device that allows a printer to print on both sides of the paper automatically. A fuser is a part of a laser printer that melts the toner onto the paper using heat and pressure. None of these components are related to the issue of pulling multiple sheets of paper from the paper tray.

Reference: Types of Printers-What You Need to Know for the CompTIA A+ Exams

NEW QUESTION: 224

A field technician has been dispatched to a site with an internet outage. Upon arriving, the technician discovers that the POTS lines are not working as well. Which of the following technologies is the site MOST likely using?

- A. Fiber
- B. Cable

C. DSL

D. Satellite

Answer: C (LEAVE A REPLY)

DSL (Digital Subscriber Line) uses POTS (Plain Old Telephone Service) lines to provide high-speed internet access. If the POTS lines are not working, it could cause an internet outage for DSL customers. Fiber and cable internet typically use different types of infrastructure, while satellite internet is not reliant on POTS lines. References: CompTIA A+ Certification Exam: Core 1 - Page 231

NEW QUESTION: 225

A technician is setting up a projector (or a videoconferencing system). When the user attempts to connect a laptop to the system, the system displays the following error message.

No source found

The user tries multiple cables and inputs on the projector. Which of the following should the user try NEXT?

A. Check the bulb on the projector and replace it with a new one.

B. Check the display settings on the computer and set them to extend/duplicate.

C. Replace the projector with another known-good one and try again.

D. Replace the video card on the machine that is plugged in to the projector, as it has gone bad.

Answer: B (LEAVE A REPLY)

If a user is unable to connect a laptop to a projector or videoconferencing system and sees the error message

"No source found," the next step should be to check the display settings on the computer and set them to extend/duplicate. This will ensure that the laptop's display is being output to the external device. References:

CompTIA A+ Certification Exam Guide, pg. 514

NEW QUESTION: 226

A company wants to give third-party developers access to the corporate network through desktop environments that the company can control. Which of the following can BEST achieve these requirements?

A. Sandbox

B. VDI

C. Private cloud

D. SaaS

Answer: B (LEAVE A REPLY)

VDI is a technology that allows a company to provide desktop environments to third-party developers while still maintaining control over the corporate network. VDI creates virtual desktops on a remote server, and each user gets their own desktop environment that is isolated from the other users. This allows the company to maintain control over the corporate network, as the virtual desktops are not directly connected to the corporate network.

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NEW QUESTION: 227

Which of the following network options would work BEST to ensure a client-side virtual machine cannot access the rest of the network?

- A. NAT mode
- B. Bridge mode
- C. Direct mode
- D. Host-only mode

Answer: D (LEAVE A REPLY)

Host-only mode is a network option that isolates a client-side virtual machine from the rest of the network. It allows the virtual machine to communicate only with the host machine and other virtual machines on the same host. NAT mode allows the virtual machine to share the host's IP address and access the network through it.

Bridge mode allows the virtual machine to have its own IP address and connect directly to the network. Direct mode is not a valid network option for virtual machines.

NEW QUESTION: 228

The help desk received a ticket regarding Issues with a laser printer. The printer has had repairs previously for scanning Issues. Currently, the printed text is not adhering properly to the paper. Which of the following should be replaced to resolve this Issue?

- A. Fuser
- B. Waste container
- C. Roller
- D. Toner

Answer: A (LEAVE A REPLY)

If the printed text is not adhering properly to the paper on a laser printer that has had repairs previously for scanning issues, the fuser should be replaced to resolve this issue. The fuser is a component of the printer that uses heat and pressure to fuse the toner onto the paper. If the fuser is not functioning properly, the toner may not adhere properly to the paper.

NEW QUESTION: 229

A technician is troubleshooting a computer that has a loud system fan and randomly freezes and reboots.

Which of the following is the most likely cause of these issues?

- A. Failing hard drive
- B. Defective power supply
- C. Incompatible hardware
- D. Overheating processor

Answer: D (LEAVE A REPLY)

An overheating processor is the most likely cause of a computer that has a loud system fan and randomly freezes and reboots. A processor generates heat when it performs calculations, and if the heat is not dissipated properly, it can damage the processor or cause it to malfunction. A loud system fan indicates that the fan is working harder to cool down the processor, but it may not be enough to prevent overheating. A computer that freezes and reboots randomly is a common symptom of an overheating processor, as the system tries to protect itself from further damage by shutting down or restarting.

The other options are not as likely to cause these issues. A failing hard drive may cause data loss, corruption, or slow performance, but it does not affect the system fan or the processor temperature. A defective power supply may cause the computer to shut down unexpectedly, but it does not cause the system fan to be loud or the processor to overheat. Incompatible hardware may cause the computer to fail to boot, display errors, or crash, but it does not cause the system fan to be loud or the processor to overheat.

To troubleshoot and resolve an overheating processor issue, the technician should check and clean the air vents, provide proper ventilation, apply thermal paste, replace the fan or the heat sink, or upgrade the processor if necessary. The technician should also update the BIOS and the device drivers, adjust the power settings, and monitor the system temperature using diagnostic tools.

References:

- * CompTIA A+ Certification Exam Core 1 Objectives¹
- * The Official CompTIA A+ Core 1 Student Guide (Exam 220-1101) eBook²
- * How to Troubleshoot Fan Issues | Dell US³
- * Why your laptop fan is loud and how to fix it | Asurion⁴
- * HP Notebook PCs - Fan is noisy and spins constantly (Windows)⁵

NEW QUESTION: 230

A customer is using a satellite internet connection that is experiencing slowness. A technician notices high latency while pinging, but the download test is performing perfectly with very good download speeds. Which of the following represents the NEXT action the technician should perform?

- A. Restart the modem and run an online internet connection and speed diagnostic tool.
- B. Guide the customer on how to upgrade the internet plan with the provider in order to improve latency.

C. Explain to the customer this is not an issue; this situation is normal for this type of internet connection.

D. Replace the modem because it is not working correctly based on the test result.

Answer: A (LEAVE A REPLY)

The technician should restart the modem and run an online internet connection and speed diagnostic tool¹

. High latency is a common issue with satellite internet connections, and it can cause slow internet speeds²

. Restarting the modem can help to resolve the issue¹. The technician should also run an online internet connection and speed diagnostic tool to check the connection and speed¹. Guiding the customer on how to upgrade the internet plan with the provider in order to improve latency is not likely to be the correct option².

High latency while pinging can indicate a problem with the modem or the connection between the modem and the satellite. Restarting the modem can often resolve connectivity issues. Running an online internet connection and speed diagnostic tool can help identify any other issues with the connection. Upgrading the internet plan may not resolve latency issues and may not be necessary if the download test is performing perfectly with very good download speeds. High latency is not normal for satellite internet connections, so replacing the modem based on this one test result is premature. References: CompTIA A+ Certification Exam:

Core 1 - Page 102

NEW QUESTION: 231

A network engineer recently deployed a new application server in a cloud environment. Which of the following should be implemented to prevent a single point of failure within the system?

A. Rapid elasticity

B. RAID

C. High availability

D. Shared resources

Answer: (SHOW ANSWER)

High availability is a design principle that ensures a system or service can operate continuously without significant downtime or disruption. High availability can be achieved by implementing redundancy, failover, load balancing, and backup strategies. High availability can prevent a single point of failure within the system, which means that if one component fails, another one can take over its function. Rapid elasticity is the ability to scale up or down the resources of a system according to the demand, but it does not prevent a single point of failure. RAID is a method of storing data across multiple disks to provide redundancy and performance, but it does not prevent a single point of failure at the server level. Shared resources are the resources that are pooled and accessed by multiple users or systems, but they do not prevent a single point of failure either.

References:

<https://www.comptia.org/blog/what-is-cloud-computing>

NEW QUESTION: 232

A technician is creating a new RAID array for a customer. After interviewing the customer, the technician decides to implement a RAID array of striping without parity. Which of the following reasons would lead the technician to choose striping without parity instead of striping with parity?

- A. Uptime is the customer's biggest concern
- B. Speed is the most important consideration.
- C. Redundancy and speed are equally important
- D. Available storage space needs to be maximized

Answer: B (LEAVE A REPLY)

Speed is the most important consideration. Striping without parity, also known as RAID 0, is a RAID configuration that splits data across multiple disks without any redundancy. This improves the performance of read and write operations, as multiple disks can work in parallel. However, this also increases the risk of data loss, as any disk failure will result in losing all data on the array. Therefore, striping without parity is suitable for situations where speed is prioritized over reliability. According to the CompTIA Core1 objectives, one of the advantages of RAID 0 is increased speed. A research paper on RAID performance also confirms that RAID 0 has the highest throughput among all RAID levels.

NEW QUESTION: 233

A technician recently discovered the root cause of an application error that several users have been experiencing. The technician updated the configurations on the affected machines and verified full functionality was restored for all users, which of the following actions should the technician perform NEXT?

- A. Write a knowledge base article in the ticketing software to expedite future incidents.
- B. Submit a bug report to the developer of the application, along with the steps taken to resolve the issue.
- C. Work with the developer to proactively collect the application logs to identify future errors of this type.
- D. Send an email communication to the company about the issue and the steps taken to resolve it.

Answer: (SHOW ANSWER)

CompTIA 6-Step Troubleshooting Process:

1. Identify the problem.
2. Establish a theory of probable cause. (Question the obvious)
3. Test the theory to determine cause.
4. Establish a plan of action to resolve the problem and implement the solution.
5. Verify full system functionality and if applicable implement preventative measures.
6. Document findings, actions, and outcomes.

Writing a knowledge base article in the ticketing software would help document the root cause of the application error and the steps taken to resolve it, which can help other technicians resolve

similar issues in the future. This is an example of knowledge management best practices.
References: CompTIA A+ Certification All-in-One Exam Guide, Tenth Edition, Chapter 6

NEW QUESTION: 234

Which of the following commonly uses NFC?

- A. Contactless payments
- B. IoT devices
- C. Inventory tracking
- D. Tethering

Answer: A (LEAVE A REPLY)

NFC (Near Field Communication) is a wireless communication technology that is commonly used for contactless payments, mobile payments, and other mobile transactions. It allows two devices to communicate with each other when they are placed in close proximity.

Contactless payments commonly use NFC (Near Field Communication). NFC is a wireless communication technology that allows two devices to communicate with each other when they are in close proximity.

Contactless payments use NFC to enable customers to make payments by simply tapping their contactless card or mobile device on a payment terminal.

NEW QUESTION: 235

A new HD webcam's image only updates one or two times per second. The specifications indicate the webcam is capable of updating 30 frames per second. Which of the following is MOST likely causing the issue?

- A. The USB 2.0 port has insufficient bandwidth.
- B. The Thunderbolt connector is not compatible.
- C. The VGA cable does not support a digital signal.
- D. The connection should - instead of STP.

Answer: A (LEAVE A REPLY)

The USB 2.0 port has insufficient bandwidth to support a high-definition webcam that can update 30 frames per second. USB 2.0 has a maximum theoretical bandwidth of 480 Mbps, which may not be enough for HD video streaming. The user should try using a USB 3.0 port or a Thunderbolt connector, which have higher bandwidths and can support HD webcams. The Thunderbolt connector is compatible with USB devices, so it is not the cause of the issue. The VGA cable and the STP cable are not related to the webcam, as they are used for video output and network connection respectively.

NEW QUESTION: 236

A virtual file server in the cloud is configured to automatically add compute resources during times of high load on the server. Which of the following describes this cloud feature?

- A. File synchronization
- B. High availability

- C. Rapid elasticity
- D. Shared resources

Answer: C (LEAVE A REPLY)

Rapid elasticity is a cloud feature that allows cloud services to scale up or down automatically according to demand or load on the server, without requiring manual intervention or configuration changes by users or administrators. This enables cloud services to provide optimal performance and efficiency at all times, as well as reducing costs by only using resources when needed.

Reference:

<https://www.comptia.org/training/books/a-core-1-220-1101-study-guide> (page 98)

NEW QUESTION: 237

A desktop support technician is building a new desktop that features the fastest internal storage. Which of the following BEST suits this request?

- A. SATA SSD
- B. SATA HDD
- C. M2PCIeNVMeSSD
- D. PCIe SATA HDD

Answer: C (LEAVE A REPLY)

M2PCIeNVMeSSD. M.2 PCIe NVMe SSDs are the fastest internal storage devices available for desktops. They are faster than SATA SSDs and PCIe SATA HDDs.

NEW QUESTION: 238

A user reports having an issue charging a laptop from home. When the user connects the USB-C adapter that is attached to the office workstation to the laptop charging port, the laptop charges correctly. When the user connects the home USB-C adapter to the laptop charging port, the laptop does not charge. Which of the following should the technician do to ensure the user can work at home and in the office?

- A. Provide a UPS for the user's home office.
- B. Give the user an OEM power supply for home use.
- C. Replace the user's laptop with a desktop, and enable remote log-in.
- D. Instruct the user to use a USB-C hub when working at home.

Answer: B (LEAVE A REPLY)

The issue described suggests that the home USB-C adapter may not be compatible with the laptop or may not meet the necessary power requirements to charge the device. Providing the user with an Original Equipment Manufacturer (OEM) power supply ensures compatibility and reliability, as OEM chargers are specifically designed to work with the laptop model in question. This solution ensures that the user can work efficiently both at home and in the office without facing charging issues, as OEM power supplies adhere to the specific voltage and amperage requirements of the device. References: Hardware 1101.docx, "Power Supplies" section.

NEW QUESTION: 239

Which of the following is the SAFEST way to replace RAM on a server that has a redundant power supply?

- A. Unplug one power cable.
- B. Verify the RAM temperature.
- C. Utilize a grounding strap.
- D. Replace the RAM while the server is running.

Answer: C (LEAVE A REPLY)

Utilizing a grounding strap is the safest way to replace RAM on a server that has a redundant power supply.

This ensures that no static electricity is transferred to any of the server components, which could cause permanent damage. The other options are not the correct methods for replacing RAM. Unplugging one power cable is not recommended, as it could cause the server to go offline and disrupt any services that are running.

Verifying the RAM temperature is not necessary and does not provide any additional safety measures, and replacing the RAM while the server is running is not recommended, as it could cause system instability.

NEW QUESTION: 240

An administrator chose a shared-tenant model for a cloud deployment. Which of the following is the MOST likely reason the administrator chose this model?

- A. Cost savings
- B. Highly available
- C. Dedicated hardware
- D. Increased security

Answer: A (LEAVE A REPLY)

The shared-tenant model for a cloud deployment, also known as a multi-tenant model, allows multiple customers to use the same resources and infrastructure of the cloud service provider, with each customer's data and applications isolated from one another. This model is often chosen for cost savings, as resources are shared and users only pay for what they use. Therefore, the MOST likely reason that an administrator chose this model is A. Cost savings.

NEW QUESTION: 241

A technician is troubleshooting an issue involving lines appearing down copied pages, but printed pages sent directly to the copier render as intended. Which of the following is the MOST likely cause of this issue?

- A. Empty imager drum
- B. Overheated system fuser
- C. Scratched scanner glass
- D. Third-party toner

Answer: C (LEAVE A REPLY)

If lines appear down copied pages but printed pages sent directly to copier render as intended, it could be due to scratched scanner glass which can cause lines or streaks on copied pages. If there are lines appearing on copied pages, but not on printed pages sent directly to the copier, the issue is most likely caused by a scratch on the scanner glass. References:
<https://www.pacificoffice.com/how-to-fix-lines-on-copier/>

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NEW QUESTION: 242

An insurance company wants to implement cloud computing and would like a cloud solution in which the infrastructure is shared with businesses in the same industry. Which of the following cloud models BEST addresses the company's need?

- A. Community
- B. Private
- C. Public
- D. Hybrid

Answer: (SHOW ANSWER)

The cloud model that BEST addresses the company's need is the Community cloud model. A community cloud is a cloud infrastructure in which multiple organizations share resources and services based on common operational and regulatory requirements. The concept of a community cloud is akin to a community garden, where different individuals grow produce on a single piece of shared land¹.

NEW QUESTION: 243

A field technician for an airport receives a support ticket that states customers are having issues viewing a screen that displays information about departing flights. While checking the case history, the technician sees that all flight information screens were recently moved when the terminal gates were remodeled. Which of the following actions should the technician perform after verifying the screen has power?

- A. Ensure the input connections to the screen are secure.
- B. Swap cables with a screen that works.
- C. Check to see if the device outputting the data is turned on.
- D. Determine if the screen is compatible with the output device.

Answer: A (LEAVE A REPLY)

The technician should ensure the input connections to the screen are secure¹. The screen may not be receiving the signal from the device outputting the data if the input connections are not secure¹. Swapping cables with a screen that works is not likely to be the correct option¹

NEW QUESTION: 244

A technician is replacing a computer with a connected point-of-sale system using a 9-pin serial adapter. The new computer does not have a 9-pin serial port. Which of the following ports can an adapter be installed on in order to connect to the point-of-sale system?

- A. HDMI
- B. Bluetooth
- C. USB
- D. Lightning

Answer: C (LEAVE A REPLY)

A USB to 9-pin serial adapter can be used to connect the new computer to the point-of-sale system using a USB port. USB is a common and versatile port type found on most computers. If a technician is replacing a computer with a connected point-of-sale system using a 9-pin serial adapter and the new computer does not have a 9-pin serial port, an adapter can be installed on the USB port in order to connect to the point-of-sale system. A USB-to-serial adapter can be used to connect a serial device to a USB port on a computer.

NEW QUESTION: 245

A technician is upgrading the memory on a server that processes payment information online. Which of the following types of memory would the technician most likely install?

- A. DDR4
- B. VRAM
- C. SODIMM
- D. ECC

Answer: D (LEAVE A REPLY)

ECC stands for Error Correction Code, which is a type of memory that can detect and correct data errors that may occur during processing or transmission. ECC memory is commonly used in servers that handle sensitive or critical information, such as payment information online, because it can reduce the risk of data corruption, system crashes, or security breaches¹².

DDR4 is a generation of DDR technology, which stands for Double Data Rate. DDR4 memory is faster and more power-efficient than its predecessors, but it does not necessarily have ECC functionality. DDR4 memory can be either ECC or non-ECC¹.

VRAM is Video RAM, which is a type of memory that is dedicated to storing graphics data for display.

VRAM is usually found on graphics cards or integrated graphics processors, not on servers³.

SODIMM is Small Outline DIMM, which is a type of memory module that has a smaller size and lower profile than regular DIMMs. SODIMMs are typically used in laptops, notebooks, or other compact devices, not on servers³.

NEW QUESTION: 246

A technician is installing the RAM for a graphics workstation. Which of the following is special purpose memory used by graphic controllers?

- A. SRAM
- B. MicroDIMM
- C. VRAM
- D. Unbuffered DIMM

Answer: ([SHOW ANSWER](#))

VRAM (Video Random Access Memory) is a special-purpose memory type used by graphics controllers to store image data that is displayed on the screen. VRAM is faster and more expensive than regular RAM, and it allows the graphics controller to access the image data directly without involving the CPU or the system memory. VRAM can improve the performance and quality of graphics-intensive applications, such as video editing, gaming, and 3D rendering.

References:

*Ram Flashcards | Quizlet, question "Which of the following is a special-purpose memory type used by graphics controllers?".

*Nvidia Unveils Big Accelerator Memory: Solid-State Storage for GPUs, paragraph 4.

*US5801706A - Special purpose memory for graphics and display apparatus ..., abstract.

NEW QUESTION: 247

A technician is installing a storage solution for a computer that requires data redundancy with the fewest drives possible. Which of the following would best meet this requirement?

- A. RAID 0
- B. RAID 5
- C. RAID 10
- D. RAID 1

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 248

A company would like to take advantage of the cost savings of cloud computing by only paying for the resources used. Which of the following will BEST address this need?

- A. Shared resources
- B. Rapid elasticity
- C. Metered utilization
- D. High availability

Answer: ([SHOW ANSWER](#))

Metered utilization is a cloud feature that allows cloud providers to charge customers based on their actual consumption of resources, such as CPU time, storage space, bandwidth, or transactions. This enables customers to pay only for the resources they use, rather than a fixed or flat rate, which can reduce costs and increase efficiency. Metered utilization can also provide

more transparency and accountability for both cloud providers and customers, as they can track and monitor their resource usage and billing. Reference:

<https://partners.comptia.org/docs/default-source/resources/a-core-1-content-guide> (page 97)

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