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NEW QUESTION: 1
An engineer must implement a solution to facilitate and maintain an organization's legacy application until it is retired. The application is currently hosted on three physical servers. Which of the following is the most suitable concept for this purpose?
A. SAN
B. FaaS
C. Virtualization
D. Configuration management platform
Answer: C (LEAVE A REPLY)
Virtualization allows the legacy application to be consolidated from multiple physical servers into virtual machines, reducing hardware dependency while maintaining the existing environment until the application is retired.

NEW QUESTION: 2
Users have noticed their devices are frequently disconnecting or experiencing slow speeds in the company lobby, but the Wi-Fi signal is strong. Which of the following is the first step to troubleshoot the issue?
A. Increase the number of access points throughout the building to boost the overall signal strength.
B. Inspect the area for possible sources of interference or physical obstructions that could be disrupting the signal.
C. Recommend that all affected users switch to a wired connection to avoid wireless instability.
D. Change the wireless network frequency from 2.4GHz to 5GHz to enhance the connection stability and speed.
Answer: B (LEAVE A REPLY)
Even with a strong Wi-Fi signal, interference from devices such as microwaves, Bluetooth devices, or nearby access points can cause slow speeds or disconnections. The first step is to inspect for and identify potential interference sources or obstacles affecting signal quality.

NEW QUESTION: 3
Which of the following is an isolated virtual machine?
A. Sandbox
B. Hypervisor
C. Container

D. VDI
Answer: (SHOW ANSWER)
A sandbox is an isolated virtual environment, often used for testing code or software safely without affecting the host system.

NEW QUESTION: 4
Which of the following components enables finger-based screen input for two-in-one laptops?
A. Fingerprint scanner
B. Digitizer
C. Stylus
D. Inverter
Answer: B (LEAVE A REPLY)
A digitizer is the component in a two-in-one laptop that enables finger-based or stylus input on the screen. It is responsible for converting touch inputs into digital signals that the device can interpret.
Why Digitizer?
A digitizer is integrated into the screen assembly and works to detect and process inputs such as taps, swipes, or pinches.
This is a standard feature in modern touchscreens, enabling functionality for both finger-based and stylus-based interactions.

NEW QUESTION: 5
A user connects a PC to a projector and configures the projector to use HDMI. However, when the user tries to use the projector, the projector shows a black screen with the message "HDMI2 no signal found." The user reports that the projector worked properly during a previous meeting.
Which of the following should the user do to fix the issue?
A. Replace the bulb.
B. Swap the video cable.
C. Change the input source.
D. Update the video drivers.
Answer: C (LEAVE A REPLY)
The error message "HDMI2 no signal found" indicates that the projector is set to an input source that is not currently receiving a video signal. Input source selection is one of the first items to verify when an external display shows a black screen but powers on correctly.
Many projectors have multiple HDMI ports (HDMI1, HDMI2, etc.). If the PC is connected to a different HDMI port than the one currently selected, the projector will display a "no signal" message even though the cable and device are functioning properly. Changing the input source to match the connected HDMI port resolves the issue quickly.

NEW QUESTION: 6
A user reports slow internet browsing. The technician finds high CPU and memory usage, and pop- ups occur every minute.
Which of the following should the technician do next?
A. Escalate to the network team to check end-to-end connectivity.
B. Download and install the latest drivers.
C. Update the anti-malware signatures and scan the system.
D. Check the wireless settings and validate the DHCP configuration.
Answer: C (LEAVE A REPLY)
High resource usage along with frequent pop-ups are strong signs of a malware infection. The next logical step is to update anti-malware definitions and run a full scan to detect and remove threats.

NEW QUESTION: 7

A technician is evaluating how to connect a power-redundant server to the outlets of a rack.
Which of the following is the best way to provide electricity to the server?
A. Using only one power outlet, as the system will provide energy to the redundant source
B. Leaving one of the power supplies disconnected for use in case the other fails
C. Identifying available power outlets in different UPSs and distributing the connection between them
D. Connecting the device to one dedicated battery backup to provide continuous energy
Answer: (SHOW ANSWER)
Connecting each power supply to separate UPS units provides true power redundancy, ensuring the server remains operational even if one power source or UPS fails.

NEW QUESTION: 8
A technician needs to confirm that desktop PCs can be deployed to a global, remote workforce.
Which of the following specifications should the technician validate?
A. Input voltage
B. BIOS language support
C. Supply chain security
D. Power efficiency
Answer: A (LEAVE A REPLY)
Input voltage must be validated to ensure desktop PCs can operate in different regions with varying power standards (e.g., 110V in North America vs. 220V in Europe). Failure to verify input voltage compatibility can lead to hardware damage or operational issues.

NEW QUESTION: 9
A computer training institute needs to implement multiple VLANs that must:
- Connect to each other with minimum hardware
- Communicate traffic at wire speed
Which of the following is the most suitable?
A. Web application firewall
B. DDoS appliance
C. Layer 3 switch
D. Router
Answer: C (LEAVE A REPLY)
A Layer 3 switch can route traffic between VLANs internally using hardware-based switching, allowing inter-VLAN communication at wire speed while minimizing additional hardware compared to using external routers.

NEW QUESTION: 10
After a laptop screen has been replaced, the laptop is having Wi-Fi connectivity issues. No SSIDs are discovered. Bluetooth and Ethernet are working. Which of the following should a technician investigate first?
A. Wireless card
B. Wireless antenna
C. Wireless AP
D. Network interface card
E. Motherboard

Answer: (SHOW ANSWER)
The wireless antenna cables run through the laptop display assembly and can be disconnected during screen replacement, preventing the device from detecting available Wi-Fi networks.

NEW QUESTION: 11
A user reports that the office inkjet printer is making smudges on the printed pages. Which of the following tasks would best resolve the issue?
A. Apply a maintenance kit.
B. Clean the cartridge heads.
C. Clear any jams.
D. Replace the fuser.
Answer: B (LEAVE A REPLY)
Smudging on inkjet prints is commonly caused by clogged or dirty print heads, which prevent proper ink application. Cleaning the cartridge heads restores proper ink flow and print quality.

NEW QUESTION: 12
Which of the following devices is used to implement ACL polices for an environment?
A. Managed switch
B. Gateway
C. Repeater
D. Firewall
Answer: D (LEAVE A REPLY)
A firewall implements ACLs (Access Control Lists) to filter traffic and enforce policies based on rules such as IP address, port, or protocol.

NEW QUESTION: 13
A technician needs to update a web server's IPv4 address in a DNS server. Which of the following records should the technician update?
A. AAAA
B. MX
C. CNAME
D. A
Answer: D (LEAVE A REPLY)
An A record maps a domain name to an IPv4 address in a DNS server.

NEW QUESTION: 14
A user's computer system does not complete the startup process and shows the following message:
No boot disk found.
The system does pass the HDD diagnostic test. Which of the following should the technician do to resolve the issue?
A. Change the BIOS from legacy to UEFI.
B. Replace the HDD with an NVMe drive.
C. Disable the Secure Boot feature.
D. Upgrade the operating system to Windows 11.
Answer: A (LEAVE A REPLY)
If the hard drive passes diagnostics but the system cannot find a boot disk, the most likely cause is a mismatch between the firmware boot mode and how the operating system was installed.
Changing the BIOS from legacy to UEFI aligns the firmware with the disk's boot configuration so the system can locate and start the operating system.

NEW QUESTION: 15
Which of the following servers is used to collect data and information about events from a network-connected host?
A. DNS
B. Mail
C. Print
D. Syslog
Answer: D (LEAVE A REPLY)
A Syslog server gathers and stores log messages and event data sent over the network from various hosts and devices, centralizing system and application logs for monitoring and analysis.

NEW QUESTION: 16
Which of the following can be used by a mobile device to access a secure building?
A. Hotspot
B. Near-field communication
C. Infrared scanner
D. Geolocation
Answer: B (LEAVE A REPLY)
Near-field communication allows a mobile device to communicate wirelessly over very short distances, making it suitable for secure access control systems such as badge replacement and building entry authentication.

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NEW QUESTION: 17
A user's computer can connect to internal network resources but cannot access websites on the internet. Other users on the same network do not have this issue. Which of the following should a technician do first to troubleshoot the issue?
A. Verify the computer's DNS settings.
B. Replace the network cable.
C. Restart the DHCP server.
D. Adjust the firewall rules on the router.
Answer: A (LEAVE A REPLY)
Since the user can access internal resources but not external websites, the issue likely lies with DNS resolution. Checking and correcting the computer's DNS settings ensures it can properly resolve domain names to IP addresses for internet access.

NEW QUESTION: 18
A customer is able to print most documents with their USB inkjet printer, but the system is unresponsive when printing a certain report from a custom application. Nothing will print until the computer is restarted and the printer is power cycled. A technician remotes into the PC and confirms that the spooler stops working when this report is sent. After clearing the spooler and reinstalling the drivers from the manufacturer's website, the issue persists. No other sites using the application report similar issues. Which of the following is most likely causing the issue?

A. The manufacturer is curating content before it reaches the device to preserve ink.
B. The application has a bug that the developer needs to address.
C. The system is using the postscript language instead of the PCL.
D. Personal preferences have changed and documents with graphics are now online-only.
Answer: B (LEAVE A REPLY)
Since the printer and drivers function correctly with all other documents, and the spooler fails only when printing from one specific custom application, the issue likely lies within that application's print-handling code. This indicates a software bug that must be resolved by the application developer.

NEW QUESTION: 19
A technician is installing a new high-end graphics card that uses a 12VHPWR connector. Which of the following is the maximum wattage supported by this power connector?
A. 400W
B. MOW
C. 600W
D. 700W
Answer: C (LEAVE A REPLY)
The 12VHPWR connector can supply up to 600 watts of power, designed for high-end graphics cards.

NEW QUESTION: 20
Which of the following types of RAM is best suited to handle errors within the module itself?
A. DIMM
B. Dual channel
C. ECC
D. SODIMM
Answer: (SHOW ANSWER)
Error-Correcting Code (ECC) RAM includes additional parity bits and logic to detect and correct single-bit errors on the fly, ensuring data integrity within the memory module.

NEW QUESTION: 21
An office manager must scan a 300-page contract quickly. They are worried about scanning each page one at a time. Which feature will speed up the process?
A. Flatbed scanner
B. Duplexing
C. Automatic document feeder
D. Orientation configuration
Answer: C (LEAVE A REPLY)
An automatic document feeder (ADF) allows a user to place a stack of multiple pages into the scanner's input tray and have each page automatically fed through the scanner one by one. This eliminates the need to manually place each sheet of a multi-page document onto a flatbed scanner glass, which is a very time-consuming process for a 300-page contract.

NEW QUESTION: 22
An IT specialist sets up a wireless router in a SOHO environment. Afterward, several devices cannot access the internet and are assigned IP addresses starting with 169.254. Which of the following is the best action to resolve this issue?
A. Reboot the wireless router.
B. Shorten the lease time.

C. Use static IP addresses.
D. Increase the DHCP pool size.
Answer: A (LEAVE A REPLY)
Addresses in the 169.254.x.x range indicate the clients were unable to contact a DHCP server and fell back to APIPA. Since the router provides DHCP in a SOHO setup, restarting it will restore the DHCP service so devices can obtain valid IP addresses again.

NEW QUESTION: 23
Which of the following utilizes specialized ports on a laptop to expand the local connection options?
A. NFC adapter
B. Docking station
C. Port replicator
D. USB dongle
Answer: B (LEAVE A REPLY)
A docking station connects to a laptop's proprietary port or USB-C/Thunderbolt, providing access to multiple additional ports(USB, Ethernet, video, audio, etc.). It allows users to transform a laptop into a full desktop workstation.

NEW QUESTION: 24
Which of the following internet connection types is most likely to be used in remote locations?
A. Fiber
B. Cable
C. Satellite
D. DSL
E. Cellular
Answer: C (LEAVE A REPLY)
Satellite internet is most commonly used in remote areas where wired infrastructure (e.g., fiber or cable) is unavailable. It relies on satellite communication, making it suitable for isolated locations.

NEW QUESTION: 25
After troubleshooting a computer's connectivity, the network team determines there is a port- mapping issue. After plugging the patch cable into a different port, the issue persists. Which of the following troubleshooting steps should a technician take next to resolve the issue?
A. Convert the patch cable to a crossover cable.
B. Test the patch cable from the computer to the network closet.
C. Verify the length of the patch cable meets current standards.
D. Replace the patch cable from the device to the wall.
Answer: B (LEAVE A REPLY)
When port issues persist after moving to a different switch port, the next logical troubleshooting step is to test the patch cable. Faulty or damaged cables are a common cause of network connectivity problems. Using a cable tester between the computer and the network closet verifies the integrity of the cable and rules out a physical layer issue.

NEW QUESTION: 26
Which of the following is an advantage of a display using mini LEDs for its backlight?
A. Increased dimming zones
B. Faster refresh rate

C. Higher color gamut
D. Reduced latency
Answer: (SHOW ANSWER)
Mini LED technology uses thousands of tiny LEDs for the backlight, allowing for many more dimming zones. This results in improved contrast, deeper blacks, and better overall image quality compared to traditional LED backlighting.

NEW QUESTION: 27
A company implements a new policy that prohibits users from installing unapproved applications on corporate tablets. Which of the following should the technician use to enforce this policy?
A. MDM
B. ACL
C. DRM
D. PAM
Answer: A (LEAVE A REPLY)
Mobile Device Management allows administrators to centrally enforce policies on corporate tablets, including restricting or blocking the installation of unapproved applications, ensuring compliance with company security requirements.

NEW QUESTION: 28
Which of the following network services is used to assign an IP address to a network host?
A. DHCP
B. DNS
C. LDAP
D. SMTP
Answer: (SHOW ANSWER)
DHCP (Dynamic Host Configuration Protocol) is the service used to automatically assign IP addresses to network hosts. It dynamically manages the distribution of IP addresses and configuration details (like subnet mask, gateway, and DNS servers), ensuring no two devices are assigned the same address on the network.

NEW QUESTION: 29
A device with an IP address of 169.254.34.24 is having trouble accessing internet websites.
Which of the following is most likely causing the issue?
A. The static IP address configuration is incorrect.
B. The DNS resolution failed.
C. The DHCP assignment cannot be obtained.
D. The internet is disconnected from the router.
Answer: (SHOW ANSWER)
An IP address in the 169.254.x.x range indicates Automatic Private IP Addressing (APIPA), which occurs when the device cannot obtain an IP address from a DHCP server.

NEW QUESTION: 30
A user reports that the print quality of their desk printer is poor. A technician replaces the ink cartridge, but this does not resolve the issue. Which of the following should the technician do next?
A. Replace the pickup rollers
B. Clean the printheads
C. Switch the paper type

D. Change the ribbon
Answer: B (LEAVE A REPLY)
If print quality remains poor after replacing the ink cartridge, the next step is to clean the printheads. Printheads can become clogged with dried ink, especially in inkjet printers, causing streaks or faded output.

NEW QUESTION: 31
A technician is installing an expansion card on a desktop computer to provide internet access.
Which of the following expansion cards should the technician use?
A. GPU
B. NIC
C. Sound
D. Capture
E. PCIe
Answer: B (LEAVE A REPLY)
A network interface card provides the hardware interface required for a desktop computer to connect to a network and access the internet.

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NEW QUESTION: 32
When trying to print, a is offline. Other users can print to the same printer without error. Which of the following is the first step the technician should take to resolve this issue?
A. Check the user's print queue settings.
B. Check the printer's IP address.
C. Check the user's network settings.
D. Check the printer's firmware version.
Answer: A (LEAVE A REPLY)
When a printer is offline for one user but works for others, the issue often lies in the user's print queue settings, such as a paused queue or failed print jobs. Checking and clearing the print queue can resolve the problem.

NEW QUESTION: 33
Which of the following printing initiatives would be best to accomplish environmentally friendly objectives?
A. Requiring user authentication for printing
B. Locking down printing to only certain individuals
C. Modifying duplex settings to double-sided
D. Changing the print quality settings to best
Answer: C (LEAVE A REPLY)
Modifying duplex settings to double-sided:
Printing on both sides of the paper (duplex printing) reduces paper usage, making it one of the most effective environmentally friendly printing initiatives.

It directly minimizes waste and supports sustainability goals in the workplace.

NEW QUESTION: 34
Which of the following offers access to business productivity applications for a recurring fee?
A. SaaS
B. DaaS
C. PaaS
D. IaaS
Answer: A (LEAVE A REPLY)
Software as a Service (SaaS) provides users access to fully managed applications hosted in the cloud. CompTIA A+ explains that SaaS is subscription-based and typically billed monthly or annually, which aligns perfectly with the phrase "recurring fee." Business productivity applications-such as Microsoft 365, Google Workspace, Zoom, Slack, and Salesforce-are classic examples of SaaS offerings.
SaaS applications run entirely in the provider's cloud environment, eliminating the need for installation, maintenance, or management by the customer. This makes SaaS ideal for businesses that need reliable, scalable tools without maintaining their own infrastructure.

NEW QUESTION: 35
Which of the following is an example of VDI?
A. Streaming a GUI to thin clients from a server
B. Provisioning a sandbox as a test environment
C. Providing high-performance workstations with a local OS
D. Launching a virtual machine server on a hypervisor
Answer: A (LEAVE A REPLY)
VDI hosts desktop environments centrally on a server and delivers the user interface over the network to thin clients - exactly what streaming a GUI to thin clients describes.

NEW QUESTION: 36
Which of the following display characteristics would be most important to ensure screen images appear the same as printed output?
A. Color gamut
B. Pixel density
C. Refresh rate
D. Resolution
Answer: A (LEAVE A REPLY)
Color gamut refers to the range of colors a display can accurately reproduce. For tasks like graphic design or photo editing, ensuring the screen's colors match the printed output is critical.
Monitors with wide and accurate color gamuts (e.g., Adobe RGB) are preferred for these applications.

NEW QUESTION: 37
A developer needs to run multiple instances of an application using the fewest resources possible. The developer has access to a machine that has all the necessary libraries for the application to run. Which of the following actions should the technician suggest?
A. Running a VDI for each instance
B. Running each instance under a Type 2 hypervisor
C. Using containerization
D. Creating a virtual switch
Answer: C (LEAVE A REPLY)

Containerization allows multiple application instances to share the host operating system and required libraries, using significantly fewer resources than full virtual machines while still providing isolation between instances.

NEW QUESTION: 38
Which of the following is an advantage of using VDI?
A. Authentication is not required on a domain.
B. Licensing costs are minimized.
C. Less manual configuration is needed for each workstation.
D. A virus is automatically contained locally.
Answer: C (LEAVE A REPLY)
Virtual Desktop Infrastructure (VDI)hosts desktop environments on centralized servers. This allows rapid deployment and consistent configuration across multiple users, minimizing manual setup and easing IT management.

NEW QUESTION: 39
A user is having issues displaying the contents of their laptop screen on a projector. The laptop is connected using an HDMI cable, but the screen displays a message indicating there is no signal.
Which of the following should the technician do first to diagnose the issue?
A. Check the projector input sources.
B. Replace the HDMI cable.
C. Change the resolution of the screen to 1080p.
D. Verify the HDMI port is not damaged.
Answer: A (LEAVE A REPLY)
Ensuring the projector is set to the same HDMI input as the laptop is the quickest way to confirm it's actually looking at the correct source before swapping cables or changing settings.

NEW QUESTION: 40
A user keeps getting an error message when trying to print a letter. The printer is normally used to print cards and invitations. The user tries printing from a different computer, but the issue persists. Which of the following should the user do to resolve the issue?
A. Print fewer pages.
B. Print on card stock
C. Replace the rollers.
D. Change the paper tray setting.
Answer: (SHOW ANSWER)
If a printer is set to use a special tray (for cards/invitations) but a different type of print job is attempted (like a letter), a paper tray setting mismatch can cause errors. Changing the tray setting to match the print media resolves the issue.

NEW QUESTION: 41
A user ran out of USB ports on their laptop but would like to plug in more devices. Which of the following technologies is the best for them to use?
A. Near-field communication
B. Bluetooth
C. USB receiver
D. Port replicator
Answer: (SHOW ANSWER)

A port replicator expands a laptop's connectivity options by providing additional ports, including USB, HDMI, and Ethernet. It connects through a single interface, allowing multiple peripherals to be used simultaneously.

NEW QUESTION: 42
A technician recently replaced a user's laptop screen. Since then, the user has had trouble connecting to wireless networks. Which of the following should the technician do?
A. Verify that wireless technologies are compatible with the updated hardware.
B. Reinstall the wireless drivers after the OS is reloaded.
C. Reconnect the antenna to the system board.
D. Reset the network services.
Answer: C (LEAVE A REPLY)
Laptop wireless antennas are typically routed through the screen assembly. During screen replacement, the antenna cables can become disconnected, which prevents the device from detecting or connecting to wireless networks.

NEW QUESTION: 43
A company wants its RAID array set up so that it could lose multiple drives and still have redundancy. Which of the following configurations should the company choose?
A. RAID 0
B. RAID 1
C. RAID 5
D. RAID 6
Answer: (SHOW ANSWER)
RAID 6 implements dual parity across the array, allowing any two drives to fail simultaneously without data loss, providing higher fault tolerance than RAID 5.

NEW QUESTION: 44
An IT specialist sets up a new computer for a user who requires a high-end video card and the fastest hard drive possible. Which of the following connectors should the specialist verify are available on the motherboard? (Choose two)
A. Molex
B. NVMe
C. SATA
D. FireWire
E. USB-C
F. PCIe
Answer: B,F (LEAVE A REPLY)
PCIe (Peripheral Component Interconnect Express) is required for high-end video cards. NVMe (Non-Volatile Memory Express) utilizes the M.2 or PCIe interface for the fastest SSD performance.

NEW QUESTION: 45
A company migrates a local application to an internal cloud platform. Which of the following best describes this cloud platform?
A. Private
B. Public
C. Community
D. Hybrid
Answer: A (LEAVE A REPLY)

An internal cloud platform operated exclusively for a single organization is a private cloud, providing dedicated resources and enhanced control.

NEW QUESTION: 46
Which of the following cloud models would multiple organizations in the same industry most likely use?
A. Public
B. Hybrid
C. Community
D. Private
Answer: C (LEAVE A REPLY)
A Community Cloud is designed for use by several organizations with shared concerns (e.g., security, compliance, jurisdiction). It's common in industries like healthcare or finance where multiple entities benefit from a common infrastructure with shared policies.

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NEW QUESTION: 47
Which of the following best describes a Type 2 hypervisor?
A. It works as a firewall to control network traffic.
B. It interacts directly with the underlying hardware.
C. It runs on a host operating system.
D. It brings higher CPU capabilities to virtual machines.
Answer: C (LEAVE A REPLY)
A Type 2 hypervisor runs on top of an existing host operating system, relying on the host OS to interact with the underlying hardware while managing virtual machines.

NEW QUESTION: 48
A new directive mandates the use of a security component to securely allow users to authenticate to systems, access sensitive data, and enter the office. The component must provide an additional factor of authentication alongside user accounts and cannot be something the user o.
Which of the Mowing components best meets these requirements?
A. Fingerprint reader
B. Smart card
C. Secure token
D. NFC scanner
Answer: B (LEAVE A REPLY)
A smart card provides an additional factor of authentication by storing secure credentials, such as certificates, that cannot be guessed or replicated. It complements user accounts and is "something you have".

NEW QUESTION: 49

A user can connect their laptop to the internet in the main office. However, when the user places the laptop on top of a motor on the factory floor, there is no internet connectivity. Which of the following is the most likely cause of this issue?

A. Jitter

B. Insufficient power levels

C. External interference

D. High latency

Answer: C (LEAVE A REPLY)

Large electrical motors can emit electromagnetic interference (EMI), which can disrupt wireless signals and prevent connectivity.

NEW QUESTION: 50

A user wants a printer set up for scan-to-email functionality. Which of the following should be configured on the printer to fulfill this request?

A. SMS

B. SMTP

C. SFTP

D. SMB

Answer: B (LEAVE A REPLY)

Scan-to-email requires the printer to send scanned documents through an email server, which is accomplished by configuring Simple Mail Transfer Protocol on the printer.

NEW QUESTION: 51

An office is experiencing frequent wireless outages and slow network speeds. A technician confirms that all wireless devices are experiencing the same symptoms. Which of the following should the technician do to determine whether the issue is external or internal?

A. Restart all devices and ensure they join the workgroup.

B. Check the DNS configuration to make sure it is correct.

C. Connect a machine using Ethernet and test connectivity.

D. Perform a policy update on Active Directory and reset network settings.

Answer: C (LEAVE A REPLY)

By connecting a device directly to the network via Ethernet, the technician can determine if the issue is isolated to the wireless network or affects the entire network. If the wired connection works properly, the problem is internal to the wireless network; if not, the issue is likely external (e.g., with the ISP or modem).

NEW QUESTION: 52

An employee's screen keeps flashing. Sometimes the picture goes out and comes back. The employee checks the power cord and confirms the device is plugged in fully. Which of the following should a technician check for first?

A. Loose video cable

B. Failing graphics card

C. Conflicting drivers

D. Swollen motherboard capacitor

Answer: A (LEAVE A REPLY)

Intermittent display issues, such as a screen flashing on and off, are most commonly caused by a loose or faulty video cable connection. If the power cable is confirmed secure, the next logical step is to check the video (data) cable between the monitor and the computer.

NEW QUESTION: 53

A mobile user's laptop is having intermittent performance issues when the user tries to connect to network resources from their desk. Upon further research, a technician notices the following:
- The WLAN signal strength is low within the user's office.
- Only two 2.4GHz wireless channels are being used near the user's
office.
- The user's laptop was recently imaged, and hardware resources are
operating at normal levels.
- RJ45 ports near the user's office are not providing any connectivity.
- The user recently completed several successful password changes.
- The user is able to connect successfully in other parts of the campus without any performance issues.
- No other users are experiencing similar issues.
Which of the following is the most likely cause of the performance issues?
A. The APs are installed too far away from the user's office.
B. Multiple brute-force attempts are causing connection drops.
C. The ports near the user's office are currently disabled.
D. The user's laptop has malware, causing it to connect to unauthorized sites.
Answer: (SHOW ANSWER)
The problem occurs only at the user's desk, where the WLAN signal strength is low, but the same laptop works normally elsewhere on campus. That points to inadequate wireless coverage in that specific area, most commonly because the nearest access points are too far away (or otherwise not providing sufficient signal to the office).

NEW QUESTION: 54
A human resources department uses a network shared with other departments to produce a variety of printed resources for legal retention. The human resources department only wants Its members to have access to these materials.
Which of the following should the technician Implement?
A. Security groups
B. Audit logs
C. Time-of-day access
D. Print server
Answer: A (LEAVE A REPLY)
Security groups are used to manage access permissions to network resources, ensuring only authorized HR department members can access the shared materials.

NEW QUESTION: 55
A financial institution needs a secure way to protect encryption keys used for unlocking chips on its credit cards. Which of the following should the institution use?
A. TLS
B. AMD
C. HSM
D. ARM
Answer: (SHOW ANSWER)
A Hardware Security Module (HSM) securely manages cryptographic keys, including those used to protect credit card chips.

NEW QUESTION: 56
Which of the following DNS records would an administrator change to redirect email flow?

A. MX
B. TXT
C. SPF
D. CNAME
Answer: (SHOW ANSWER)
An MX (Mail Exchange)record defines which mail servers are responsible for receiving email for a domain. If you want to change or redirect email traffic, the MX record must be updated with the correct server information.

NEW QUESTION: 57
Which of the following should a technician create to assign a permanent IP address to a PC using DHCP?
A. Reservation
B. Lease
C. Exclusion
D. Scope option
Answer: A (LEAVE A REPLY)
A DHCP reservation maps a specific IP address to a device's MAC address, ensuring the PC always receives the same IP address while still using DHCP.

NEW QUESTION: 58
Marketing department users report network performance degradation in the morning and early afternoon, but sales and customer service department users do not report any issues. All structured cabling is Cat 5e. All departments are connected to a core switch. The running network configuration shows the following:



Which of the following is the most likely cause of the performance issues?
A. The marketing department subnet has an error.
B. The structured Cat 5e cabling is outdated.
C. The interfaces are configured with Incorrect IP addresses.
D. The marketing department Interface is running at 10/100.
Answer: D (LEAVE A REPLY)
From the configuration, the Sales and Customer Service ports are hard-set to full duplex, 1000 Mbps, while the Marketing interface (GigabitEthernet0/3) is set to duplex auto and speed auto.
CompTIA A+ explains that mismatched or lower-negotiated speeds and duplex settings can cause noticeable network slowdowns, collisions, and retransmissions--especially at busy times of the day when utilization is high.
Because all cabling is Cat 5e, it fully supports Gigabit Ethernet, so the cabling is not the limiting factor. The IP addresses are all in the same subnet (192.168.1.0/24) and formatted correctly, so there is no subnet or addressing problem. That rules out options A and C.

With speed auto, the Marketing port may be negotiating only 10/100 Mbps, or even a duplex mismatch (e.g., half duplex vs full). This would severely limit throughput compared to the gigabit links used by the other departments. In peak periods, that slower link would become congested first, which matches the users' reports of performance degradation only in Marketing.
Therefore, the most likely cause is that the Marketing interface is operating at 10/100 instead of
1000 Mbps, making option D correct.

NEW QUESTION: 59
Images and text from a laser printer smudge if touched. Which of the following should a technician do to resolve the issue?
A. Check the toner levels.
B. Install a maintenance kit.
C. Replace the fuser.
D. Clean the pickup rollers.
Answer: (SHOW ANSWER)
Replacing the fuser resolves smudging because the fuser unit uses heat and pressure to permanently bond toner to the paper. A faulty fuser can cause toner to remain loose and smudge when touched.

NEW QUESTION: 60
A customer wants a new desktop machine that can run recently released, popular video games.
Which of the following should a desktop technician consider when building the machine? (Choose two.)
A. A low-wattage power supply unit
B. An integrated GPU
C. A high amount of RAM
D. A dedicated graphics card
E. A Linux OS
F. A TPM 2.0
Answer: C,D (LEAVE A REPLY)
Modern, popular video games require a high amount of system memory to load large game assets and maintain smooth performance during gameplay. A dedicated graphics card is essential for handling advanced graphics processing, higher frame rates, and modern rendering technologies required by recently released games.

NEW QUESTION: 61
A technician wants to evaluate several desktop Linux OSs simultaneously. Which of the following is the best way to accomplish this task?
A. Container
B. Sandbox
C. Hypervisor
D. VDI
Answer: C (LEAVE A REPLY)
A hypervisor enables a single physical machine to run multiple full operating systems concurrently in isolated virtual machines, making it ideal for evaluating several desktop Linux distributions side by side.

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NEW QUESTION: 62
Which of the following is a characteristic of a Type 1 hypervisor?
A. Host OS required
B. Bare-metal server installation
C. Lightweight OS
D. Local configuration options
Answer: B (LEAVE A REPLY)
A Type 1 hypervisor runs directly on the physical hardware (bare-metal) without requiring a host operating system, providing better performance and efficiency.

NEW QUESTION: 63
A user's laptop keyboard is distorted and is no longer flat. Which of the following components most likely failed?
A. Battery
B. RAM
C. Keyboard
D. HDD
Answer: A (LEAVE A REPLY)
Swollen or warped laptop chassis components as a classic symptom of a failing or swollen lithium-ion battery.

NEW QUESTION: 64
A local bank is designing its new infrastructure blueprint. Which of the following RAID types offers double parity?
A. RAID 0
B. RAID 1
C. RAID 5
D. RAID 6
Answer: D (LEAVE A REPLY)
RAID 6 uses double parity, allowing the array to tolerate the failure of up to two disks simultaneously while maintaining data integrity.

NEW QUESTION: 65
Which of the following minimizes the time it takes to connect a display, keyboard, mouse, and network cable to a laptop?
A. Lightning interface
B. Port replicator
C. USB hub
D. Bluetooth
Answer: (SHOW ANSWER)
A port replicator is designed to allow a user to quickly connect a laptop to multiple peripherals (display, keyboard, mouse, network, etc.) using a single interface, reducing setup time.

NEW QUESTION: 66
A technician wants to upgrade a computer to a new Windows version. The Windows Upgrade Advisor states that the computer is not compatible with the new Windows version due to a lack of TPM 2.0 support.
Which of the following should the technician do next?
A. Enable the module in the UEFI BIOS.
B. Install an HSM in the computer.
C. Perform a clean Install of the new Windows version.
D. Implement BitLocker on the computer.
Answer: A (LEAVE A REPLY)
TPM 2.0 (Trusted Platform Module) is often disabled by default in the UEFI BIOS. Enabling it is necessary to meet the requirements for certain Windows installations, including Windows 11.

NEW QUESTION: 67
A SOHO customer runs an OS on a bare-metal server that has been EOL for almost a decade and is showing signs of failure. The application meets all the customer's needs, and they want to continue using it. However, the developer went out of business, and there is no way to upgrade it.
A technician does not think the OS will run on modern hardware. Which of the following will allow the customer to use the application long-term?
A. Continue to use the current system until failure.
B. Virtualize the entire system under a compatible hypervisor.
C. Containerize the application in a multitenant cloud environment.
D. Clone the disks and run the application from a USB enclosure.
Answer: B (LEAVE A REPLY)
Virtualizing the entire system under a compatible hypervisor allows the legacy OS and application to run on modern hardware by creating a virtual environment that mimics the original system, ensuring long-term usability despite hardware changes.

NEW QUESTION: 68
A technician is troubleshooting a connectivity issue on a network computer. The technician runs ipconfig in a command prompt and receives the following IP address: 169.254.0.6. Which of the following is most likely the type of IP address being assigned?
A. DHCP reservation assignment
B. Dynamic assignment
C. Self-assignment
D. Static assignment
Answer: C (LEAVE A REPLY)
An IP address starting with169.254.x.x is a self-assigned address(also called APIPA?Automatic Private IP Addressing). It's used when a client device cannot contact a DHCP server. This address allows limited communication on the local network segment but no internet access.

NEW QUESTION: 69
A user's laptop experiences intermittent issues during startup. A technician finds that the user has left a corporate flash drive plugged in, which is causing the issues. Which of the following should the technician configure?
A. BitLocker
B. Boot options
C. USB Enable
D. TPM features

Answer: (SHOW ANSWER)
The issue occurs because the system is attempting to boot from the plugged-in USB device.
Configuring boot options allows the technician to set the correct boot priority (e.g., internal drive first) or disable booting from USB, preventing startup conflicts caused by external media.

NEW QUESTION: 70
Which of the following can carry data and electricity to network devices? (Choose two)
A. Router
B. Injector
C. Cable modem
D. Access point
E. PoE
F. Unmanaged switch
Answer: B,E (LEAVE A REPLY)
PoE (Power over Ethernet) allows both data and electrical power to be delivered over the same Ethernet cable. A PoE injector adds power to Ethernet cables for devices that need it.

NEW QUESTION: 71
A technician needs to provide equipment for an international contractor. Which of the following cables would most likely change depending on the equipment's destination?
A. Power
B. Ethernet
C. FireWire
D. USB
Answer: A (LEAVE A REPLY)
Power cables and plugs vary by country due to different voltage standards and connector types.
Therefore, when providing equipment internationally, the power cable must match the destination country's electrical standards.

NEW QUESTION: 72
SIMULATION 3
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.



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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: PatsWiFi
Security Mode: WEP
Wireless Channel: 11

Laura's Wireless Configuration

WIRELESS SETUP | NETWORK FILTER | ADMINISTRATOR TOOLS

Wireless Network Settings

Enable Wireless:

Wireless Network Name: default (Also called the SSID)

Wireless Channel: 6

1
2
3
4
5
6
7
8
9
10
11

Disable SSID Broadcast:

802.11g Only Mode:

Wireless Security Mode

Security Mode: Disable Wireless Security (not recommended)

Disable Wireless Security (not recommended)
Disable Wireless Security (not recommended)
Enable WEP Wireless Security (basic)
Enable WPA Wireless Security (enhanced)
Enable WPA2 Wireless Security (enhanced)


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: PatsWiFi
Security Mode: WEP
Wireless Channel: 11
Laura's Wireless Configuration
WIRELESS SETUP
NETWORK FILTER
ADMINISTRATOR TOOLS
Turn MAC Filtering ON:
Allow the following MAC Addresses
Allow the following MAC Addresses
Disallow the following MAC Addresses
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Answer:



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NEW QUESTION: 73
An IP address is automatically assigned to a single workstation in an office, but the technician confirms the IP address is not in the lease pool. This workstation is having issues accessing the internet and internal file shares. Which of the following address types has been automatically assigned?
A. APIPA
B. Static
C. DHCP
D. Public IP
Answer: A (LEAVE A REPLY)
When a workstation cannot obtain an address from a DHCP server, it automatically assigns itself an APIPA address in the 169.254.0.0/16 range, which allows limited local communication but prevents access to the internet and most internal network resources.

NEW QUESTION: 74
A user is experiencing multiple issues with an in-place upgrade of a laptop's operating system.
The built-in camera is unresponsive, and the user is unable to pair the device with any Bluetooth accessories. Which of the following ate most likely causing three issues? (Choose two.)
A. Incorrect configuration of the settings
B. OS and device version incompatibility

C. Disabled settings following the upgrade
D. Full storage
E. Outdated drivers
F. Corrupted registry entries
Answer: C,E (LEAVE A REPLY)
Outdated drivers: Device functionality issues after an OS upgrade are often caused by incompatible or outdated drivers.
Disabled settings: Some features may be disabled during the upgrade process, requiring re- enablement.

NEW QUESTION: 75
Which of the following requires pairing during the initial use of a new mobile accessory?
A. NFC
B. Lightning cable
C. RFID
D. Bluetooth
Answer: (SHOW ANSWER)
Bluetooth accessories require an initial pairing process so the devices can securely recognize and communicate with each other before regular use.

NEW QUESTION: 76
Every day for a week, when a user turns on their computer, the time is wrong. A technician corrects the time, but the issue happens again. Which of the following is most likely the cause of the issue?
A. A failing NIC
B. Misconstrued NTP settings
C. Incorrect time zone
D. A faulty CMOS battery
Answer: D (LEAVE A REPLY)
A faulty CMOS battery causes the system to lose time and BIOS settings when powered off, resulting in the computer resetting to the wrong time each time it is turned on.

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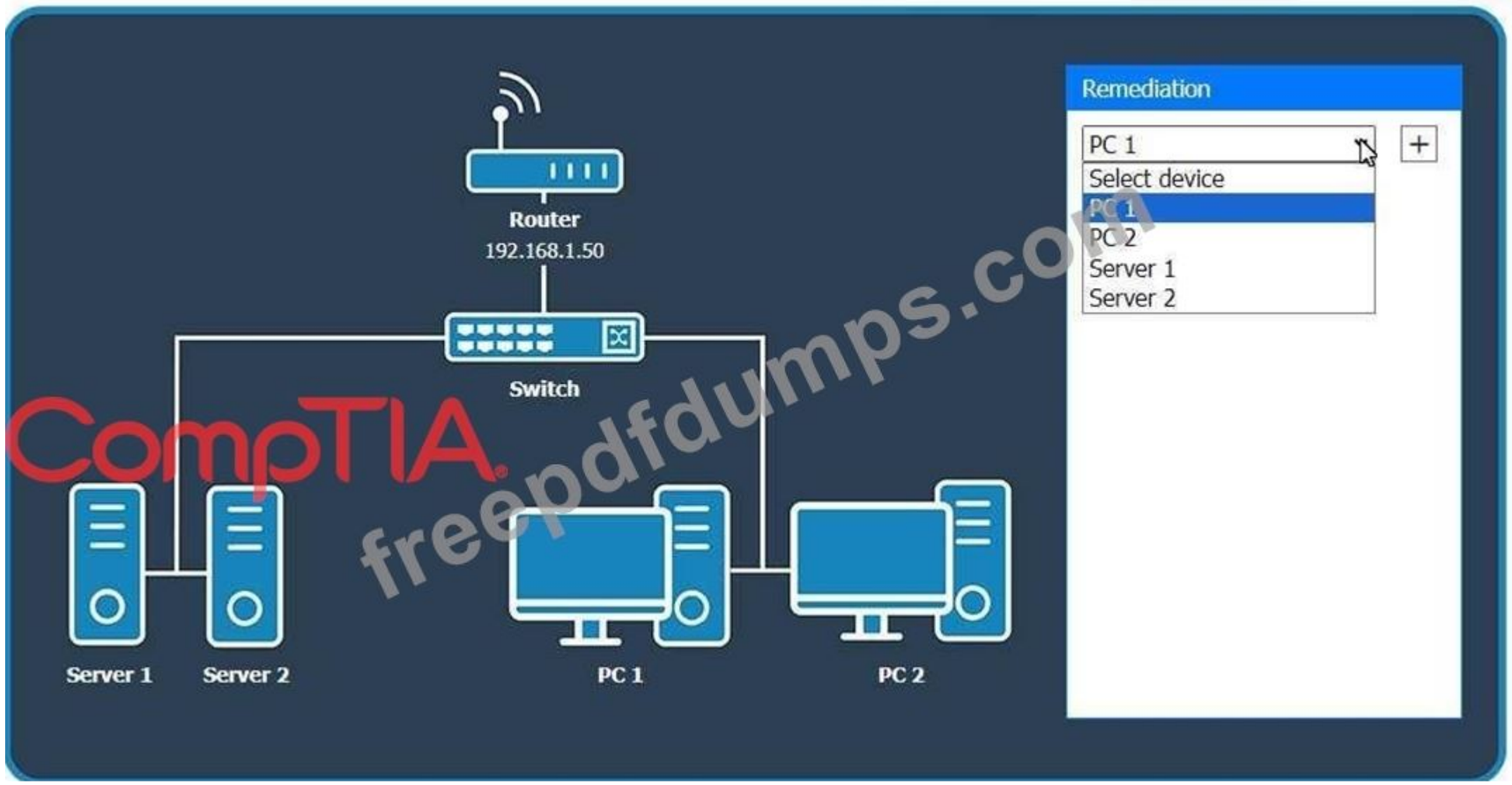
NEW QUESTION: 77
SIMULATION 8
A third-party contractor recently installed a new switch, router, and cabling for a small corporate office. After the installation, users started experiencing issues connecting to resources over the network.
INSTRUCTIONS
Click on each PC and server to review outputs. From the remediation section on the right, select an issue and solution for each device.



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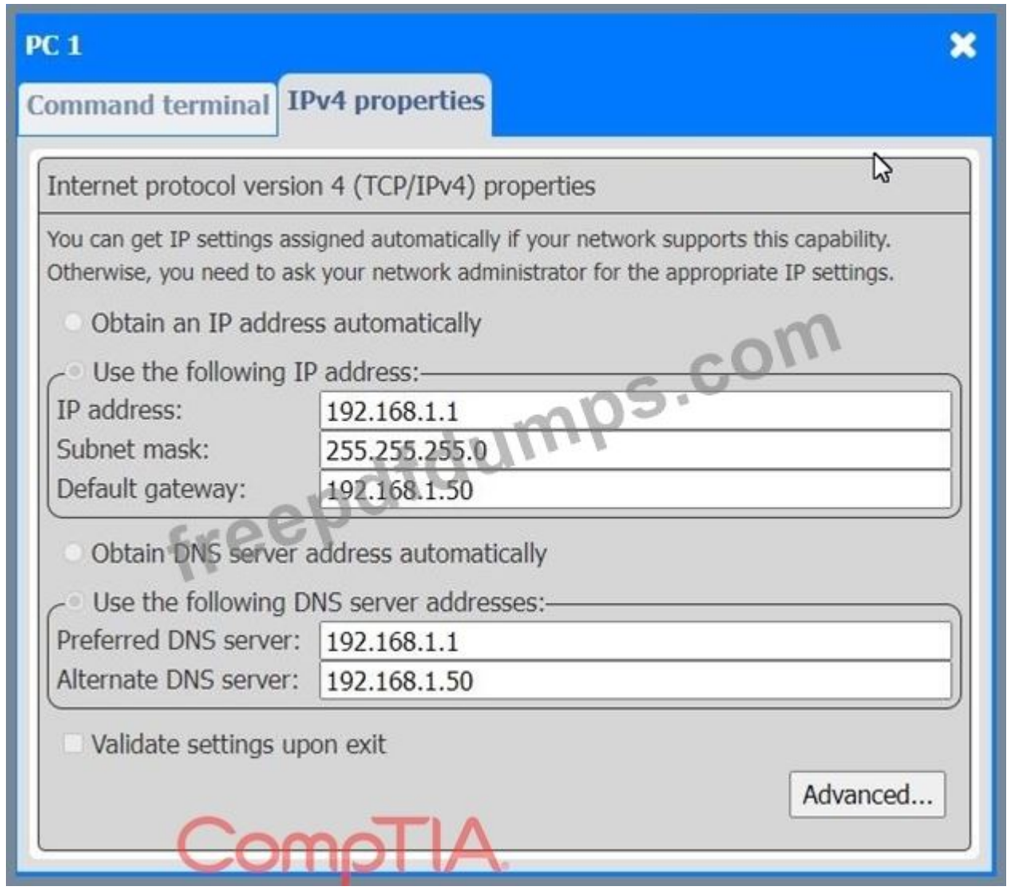

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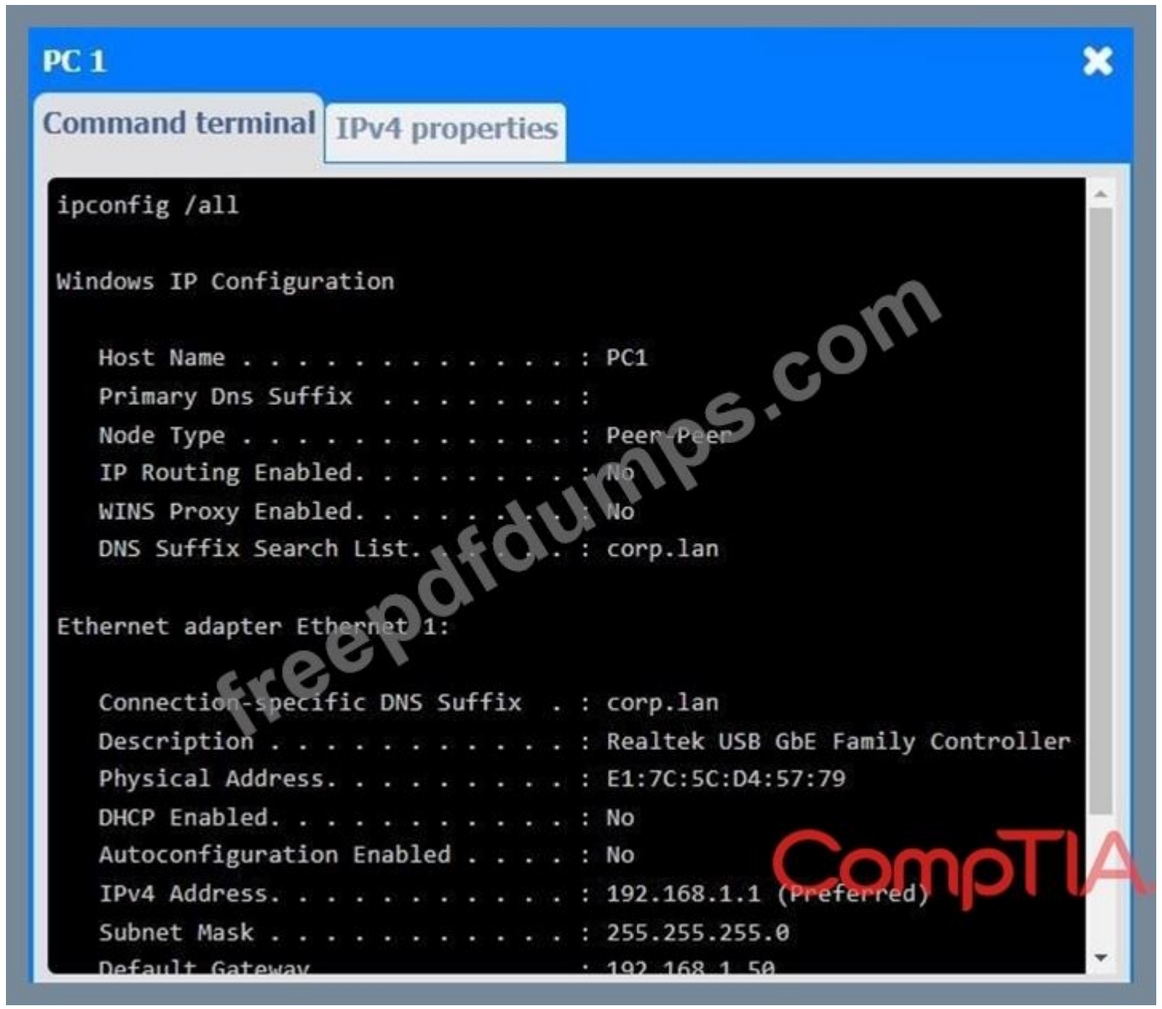

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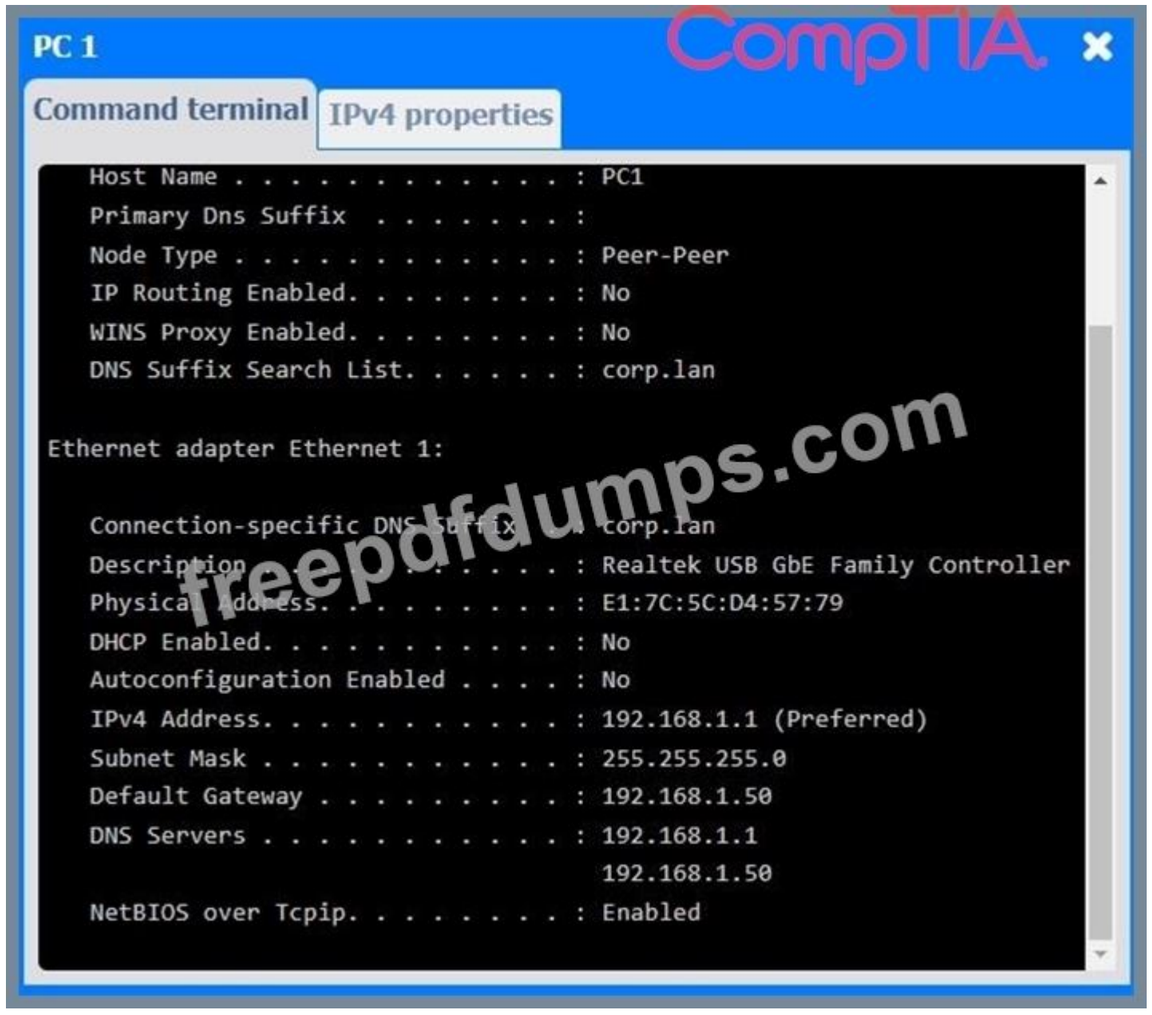

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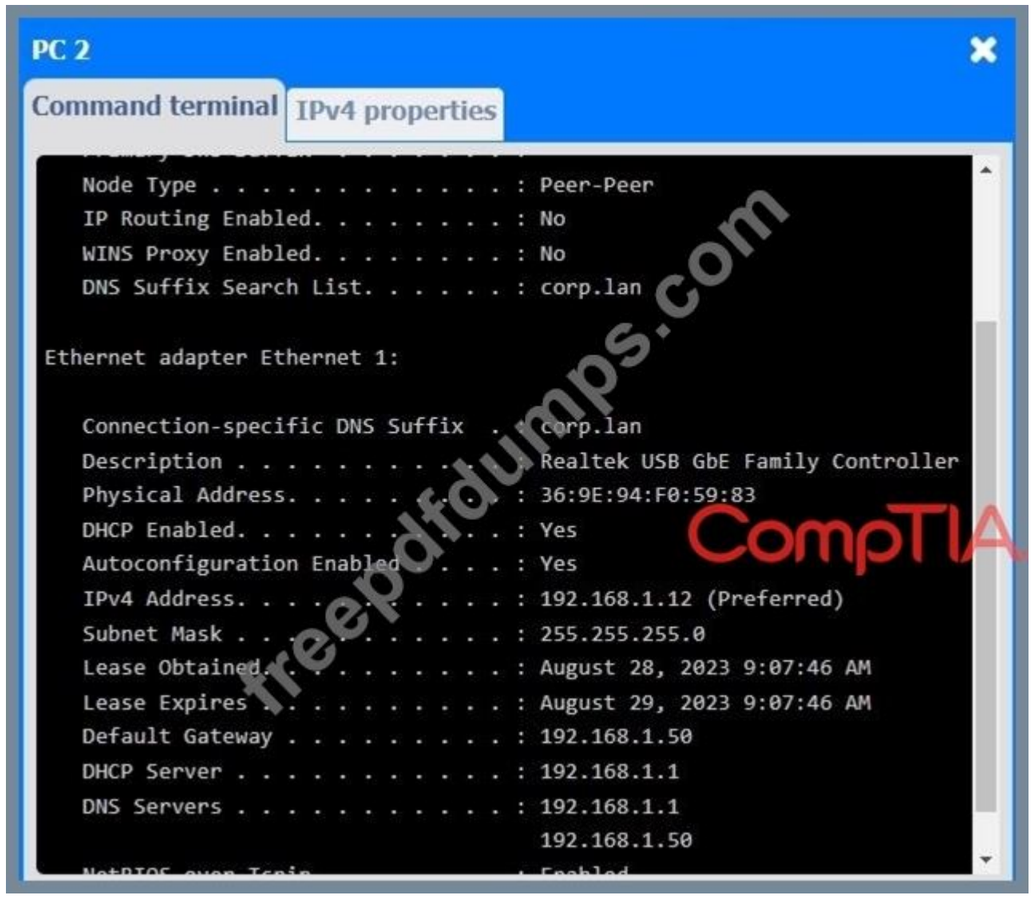

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PC 2

Command terminal | IPv4 properties

Internet protocol version 4 (TCP/IPv4) properties

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

- Obtain an IP address automatically
- Use the following IP address:

IP address:	192.168.1.2
Subnet mask:	255.255.0.0
Default gateway:	192.168.1.50

- Obtain DNS server address automatically
- Use the following DNS server addresses:

Preferred DNS server:	192.168.1.1
Alternate DNS server:	192.168.1.50

- Validate settings upon exit

Advanced...

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Server 1

Command terminal | IPv4 properties

```
   Host Name . . . . . . . . . . . . : Server1
   Primary Dns Suffix  . . . . . . . :
   Node Type . . . . . . . . . . . . : Peer-Peer
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No
   DNS Suffix Search List. . . . . . : corp.lan

Ethernet adapter Ethernet 1:

   Connection-specific DNS Suffix  . : corp.lan
   Description . . . . . . . . . . . : Realtek USB GbE Family Controller
   Physical Address. . . . . . . . . : B2:9F:BB:2C:21:74
   DHCP Enabled. . . . . . . . . . . : No
   Autoconfiguration Enabled . . . . : No
   IPv4 Address. . . . . . . . . . . : 192.168.1.1 (Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.255.255
   Default Gateway . . . . . . . . . : 192.168.1.50
   DNS Servers . . . . . . . . . . . : 192.168.1.1
                                       192.168.1.50
   NetBIOS over Tcpip. . . . . . . . : Enabled
```

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Server 1

Command terminal | IPv4 properties

Internet protocol version 4 (TCP/IPv4) properties

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

- Obtain an IP address automatically
- Use the following IP address:

IP address:	192.168.1.1
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.50

- Obtain DNS server address automatically
- Use the following DNS server addresses:

Preferred DNS server:	192.168.1.1
Alternate DNS server:	192.168.1.50

- Validate settings upon exit

Advanced...

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Server 2

Command terminal | IPv4 properties

```
   Host Name . . . . . . . . . . . . : Server2
   Primary Dns Suffix  . . . . . . . :
   Node Type . . . . . . . . . . . . : Peer-Peer
   IP Routing Enabled. . . . . . . . : No
   WINS Proxy Enabled. . . . . . . . : No
   DNS Suffix Search List. . . . . . : corp.lan

Ethernet adapter Ethernet 1:

   Connection-specific DNS Suffix  . : corp.lan
   Description . . . . . . . . . . . : Realtek USB GbE Family Controller
   Physical Address. . . . . . . . . : AC:5D:46:89:72:6D
   DHCP Enabled. . . . . . . . . . . : No
   Autoconfiguration Enabled . . . . : No
   IPv4 Address. . . . . . . . . . . : 192.168.1.2 (Preferred)
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.5
   DNS Servers . . . . . . . . . . . : 192.168.1.1
                                       192.168.1.50
   NetBIOS over Tcpip. . . . . . . . : Enabled
```

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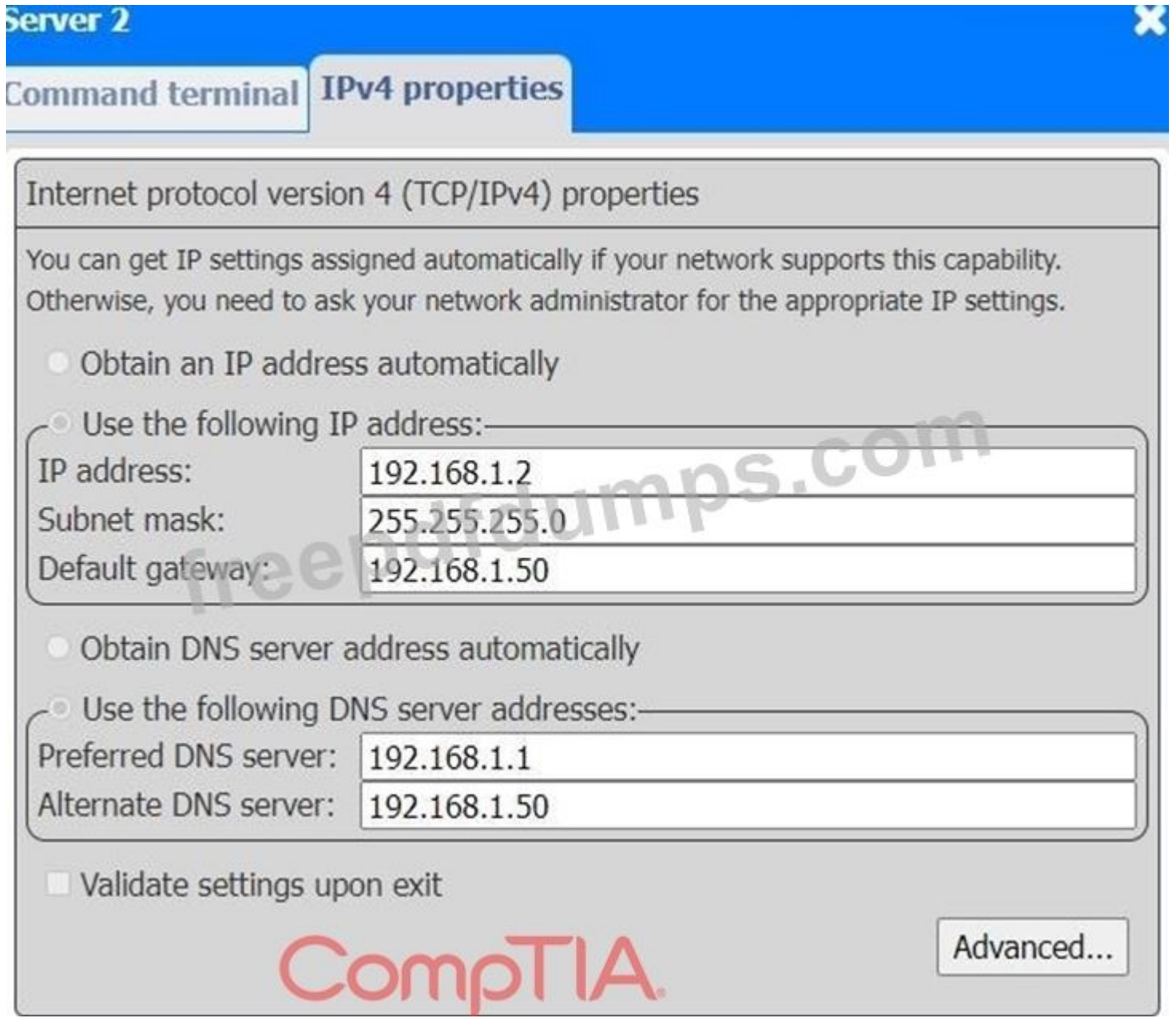


Answer:

Looking at the network configurations and outputs from both PCs and servers, here are the possible issues and solutions:

1. PC 1

Issue: The IP address for PC1 is 192.168.1.1, which conflicts with Server 1 (which also uses 192.168.1.1).

Solution: Change the IP address on PC1 to a unique one within the range, like 192.168.1.3.

2. PC 2

Issue: PC 2 is configured with 192.168.1.2, which conflicts with Server 2 that has the same IP address. Solution: Update the IP address on PC 2 to something unique, like 192.168.1.4.

3. Server 1

Issue: The IP address for Server 1 is 192.168.1.1, which conflicts with PC1. Solution: Since Server 1 and PC1 are using the same IP address, change one of them. For Server 1, you could change the IP address to 192.168.1.5.

4. Server 2

Issue: Server 2 is using the IP address 192.168.1.2, which conflicts with PC2. Solution: Update Server 2 to use a different IP address, such as 192.168.1.6.

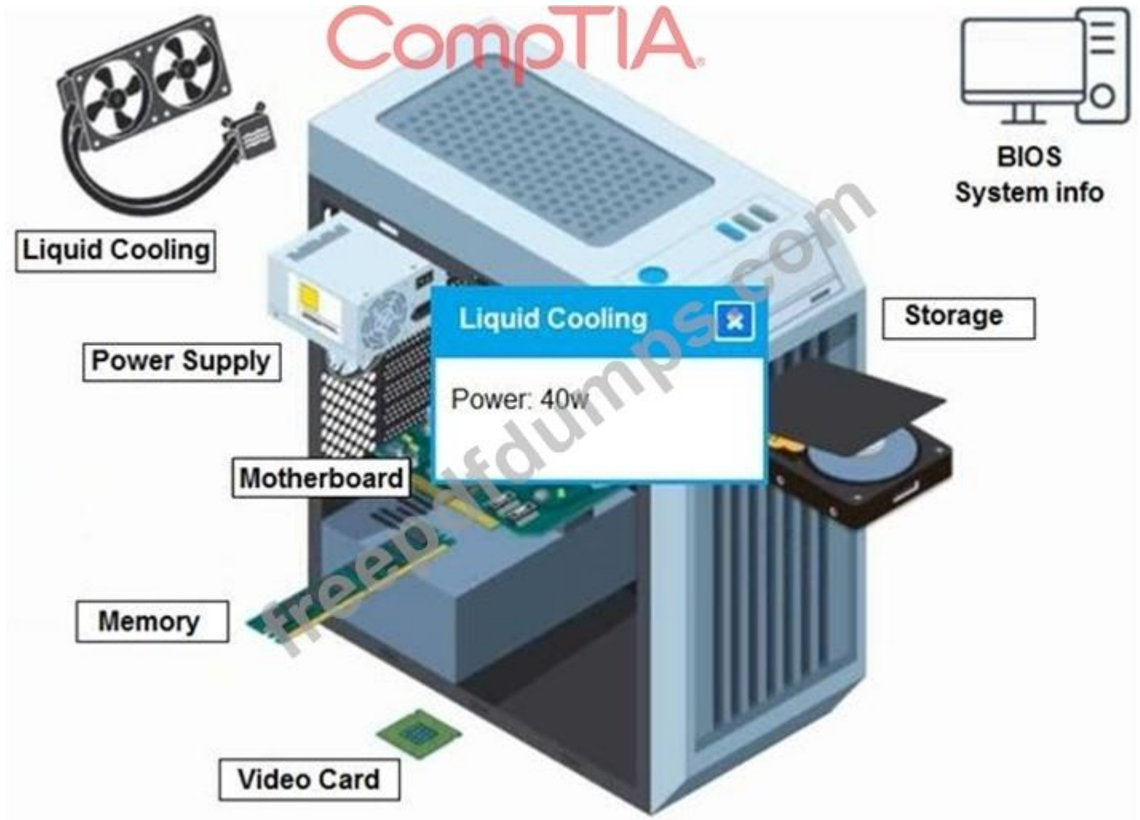
General Remediation:

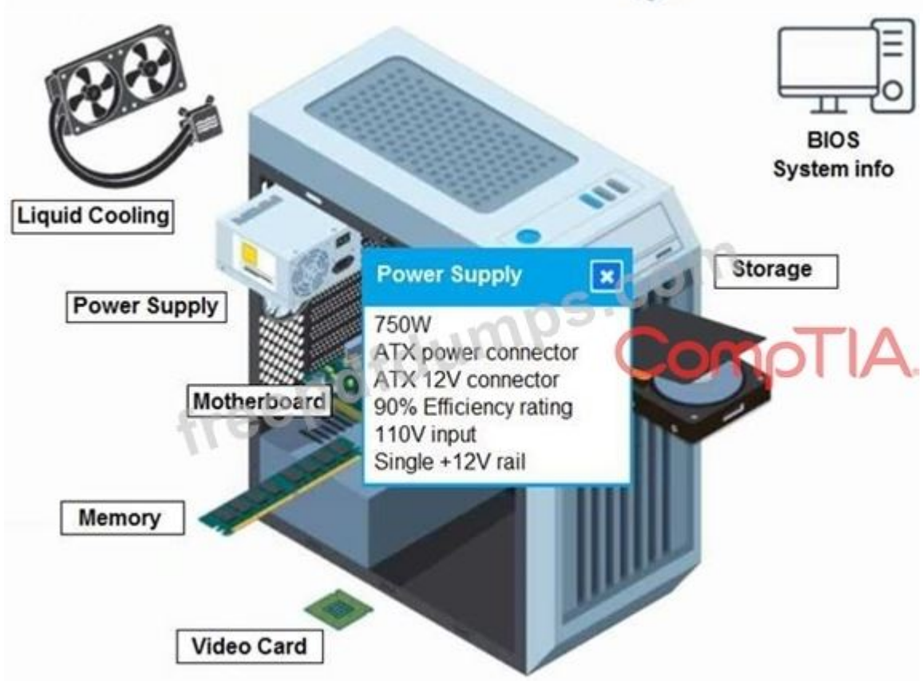
The primary problem here is overlapping IP addresses, leading to connectivity issues. Each device on the network must have a unique IP address. After making these changes, ensure that all devices can communicate properly by testing the connection between devices and verifying they can access shared resources.

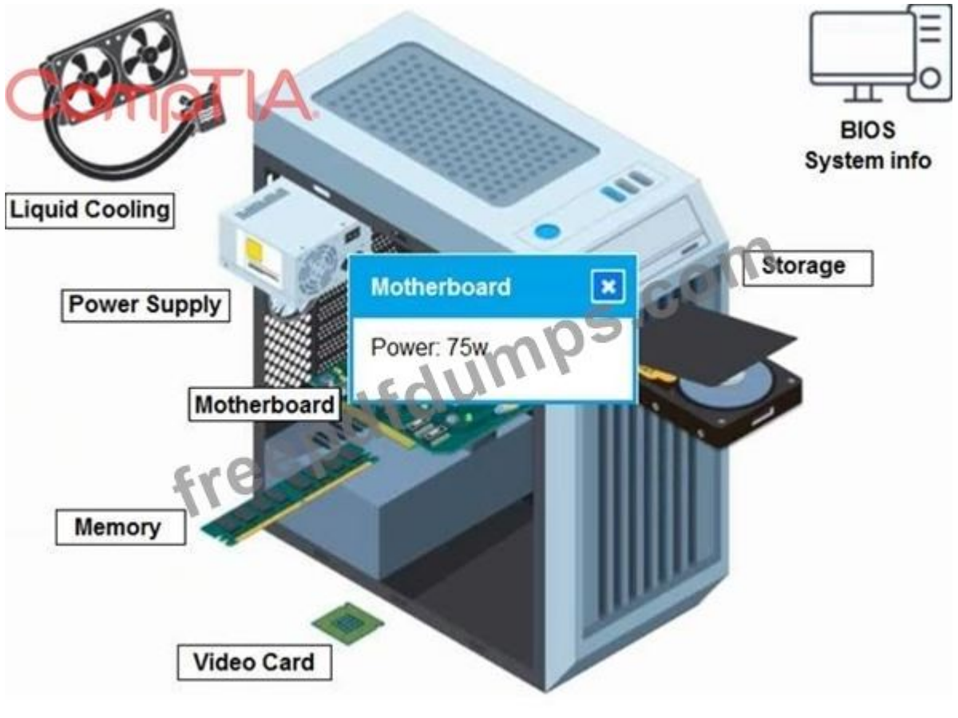
NEW QUESTION: 78
A user purchases a new mobile phone and tries to connect it to the corporate communications and email applications without success. Which of the following should a technician do to allow the phone to connect?
A. Configure biometric security settings.
B. Turn on LTE hotspot connectivity.
C. Enroll the device in the MDM software.
D. Complete the company's BYOD training process.
Answer: C (LEAVE A REPLY)
Mobile Device Management (MDM) enrollment ensures that mobile devices meet security and access policies required by the corporate network. By enrolling the device in MDM, the technician can apply necessary configurations and enable corporate app access.

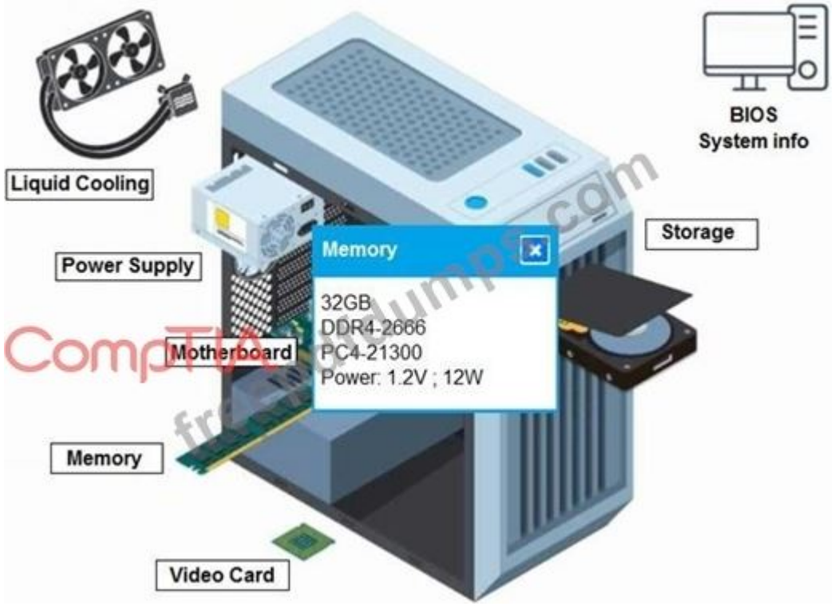
NEW QUESTION: 79
A user experiences a random BSOD while using a computer, but the operating system recovers as expected.
Which of the following symptoms would indicate the issue is related to RAM?
A. Wrong BIOS configurations
B. Continuous reboots
C. Distended capacitors
D. POST code beeps
Answer: D (LEAVE A REPLY)
During the Power-On Self-Test (POST), the BIOS performs checks on system hardware, including RAM. If the RAM is faulty, POST may produce a series of beep codes indicating memory issues. These beep codes are often the first sign of RAM-related problems, especially if the BSOD occurs randomly.

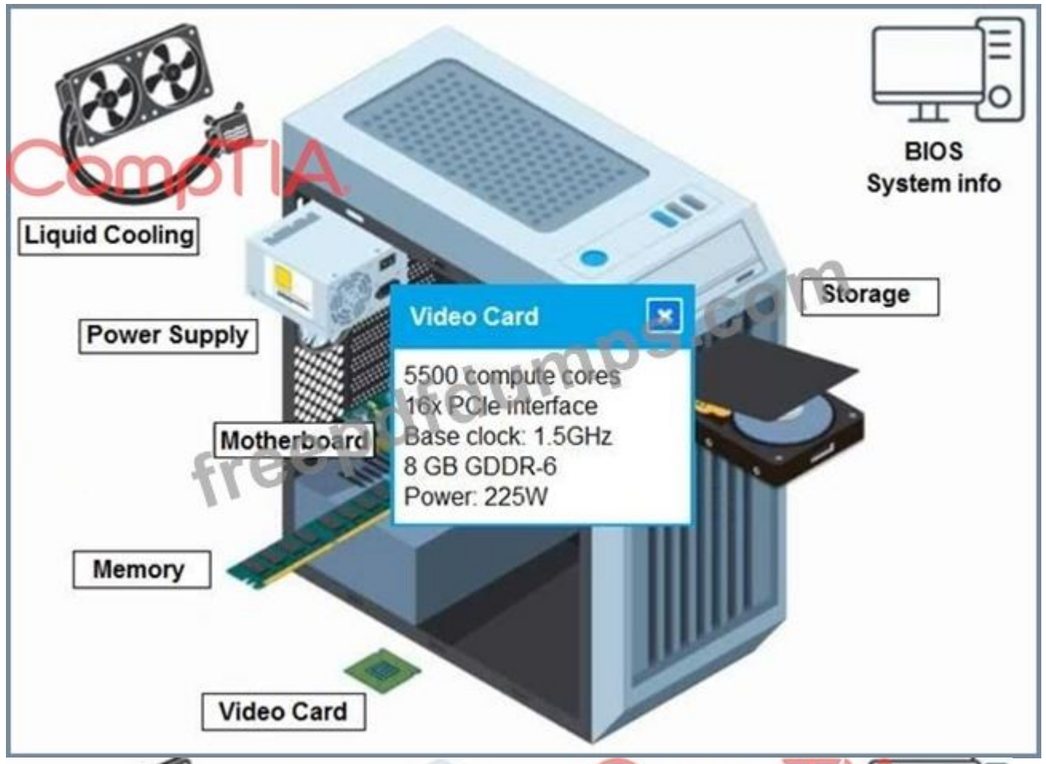
NEW QUESTION: 80
SIMULATION 7
A customer built a computer for gaming, sourcing individual components and then assembling the system. The OS starts up, but within a few minutes the machine locks up. The customer brought the computer to a technician to diagnose the issue.
INSTRUCTIONS
Click on each component to view the specification.
Select the appropriate cause and resolution for the issue.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

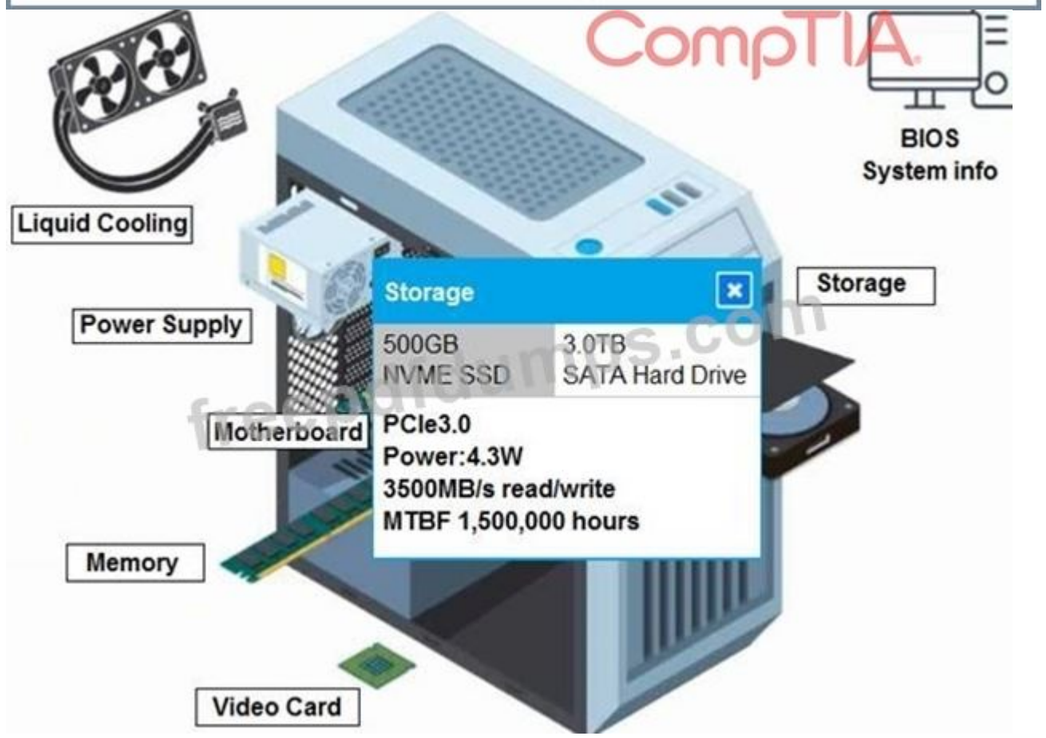

CompTIA
Liquid Cooling
BIOS
System info
Liquid Cooling
Power: 40w
Storage
Power Supply
Motherboard
Memory
Video Card

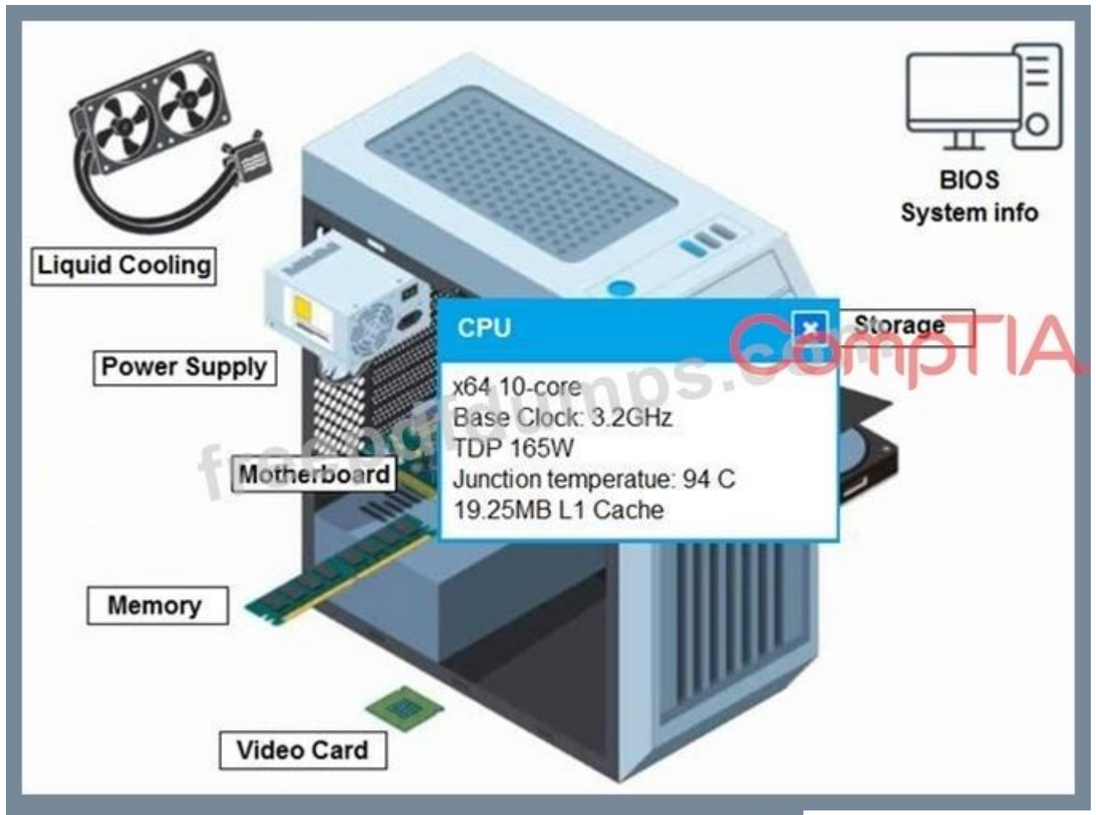

Liquid Cooling
BIOS
System info
Power Supply
750W
ATX power connector
ATX 12V connector
90% Efficiency rating
110V input
Single +12V rail
Storage
Power Supply
Motherboard
Memory
Video Card
CompTIA

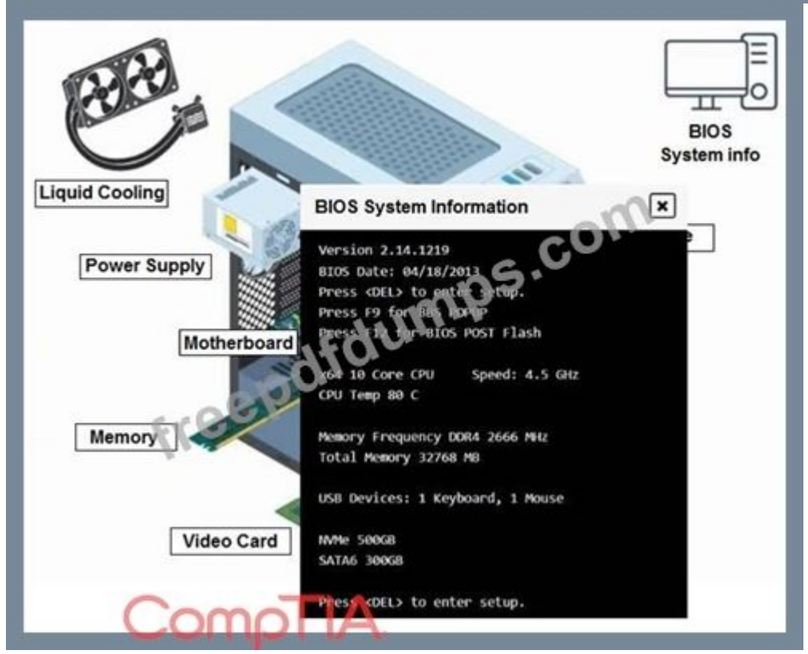

Liquid Cooling
Power Supply
Motherboard
Memory
Video Card
Motherboard
Power: 75w
Storage
BIOS
System info

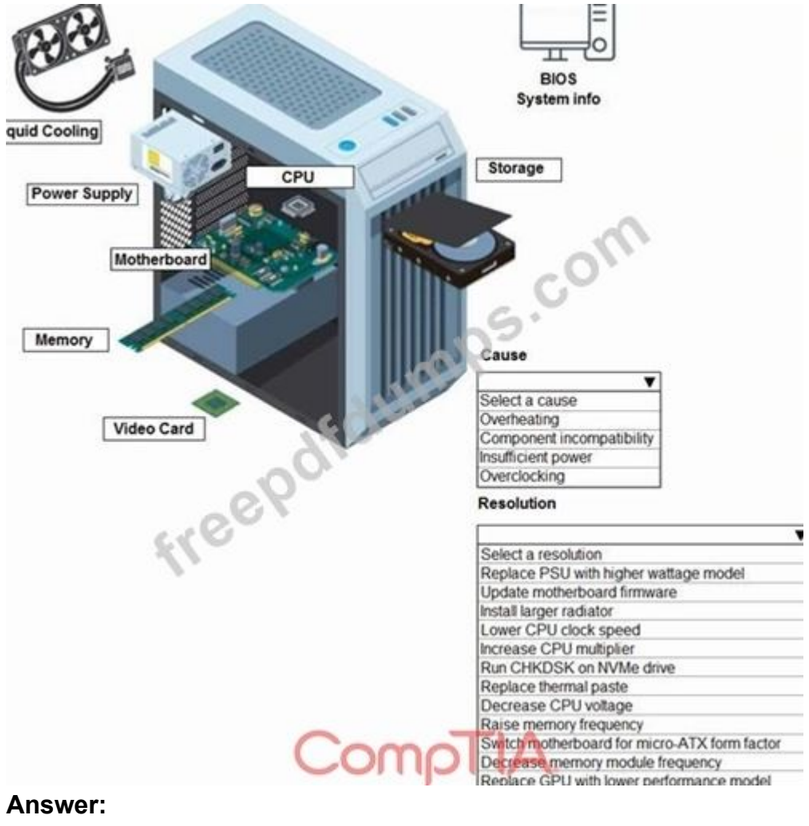

Liquid Cooling
Power Supply
Motherboard
Memory
Video Card
Memory
32GB
DDR4-2666
PC4-21300
Power: 1.2V ; 12W
Storage
BIOS
System info


CompTIA
Liquid Cooling
BIOS
System info
Storage
Power Supply
Video Card
5500 compute cores
16x PCIe interface
Base clock: 1.5GHz
8 GB GDDR-6
Power: 225W
Motherboard
Memory
Video Card


CompTIA
BIOS
System info
Liquid Cooling
Storage
Storage
Power Supply
500GB
NVME SSD
3.0TB
SATA Hard Drive
Motherboard
PCIe3.0
Power:4.3W
3500MB/s read/write
MTBF 1,500,000 hours
Memory
Video Card


Liquid Cooling
BIOS
System info
CPU
Storage
Power Supply
x64 10-core
Base Clock: 3.2GHz
TDP 165W
Junction temperatue: 94 C
19.25MB L1 Cache
Motherboard
Memory
Video Card
CompTIA


Liquid Cooling
BIOS
System info
BIOS System Information
Power Supply
Version 2.14.1219
BIOS Date: 04/18/2013
Press <DEL> to enter setup.
Press F9 for Bios Backup
Press F4 for BIOS POST Flash
x64 10 Core CPU Speed: 4.5 GHz
CPU Temp 80 C
Motherboard
Memory Frequency DDR4 2666 MHz
Total Memory 32768 MB
USB Devices: 1 Keyboard, 1 Mouse
Memory
NVMe 500GB
SATA6 300GB
Video Card
Press <DEL> to enter setup.
CompTIA



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Cause

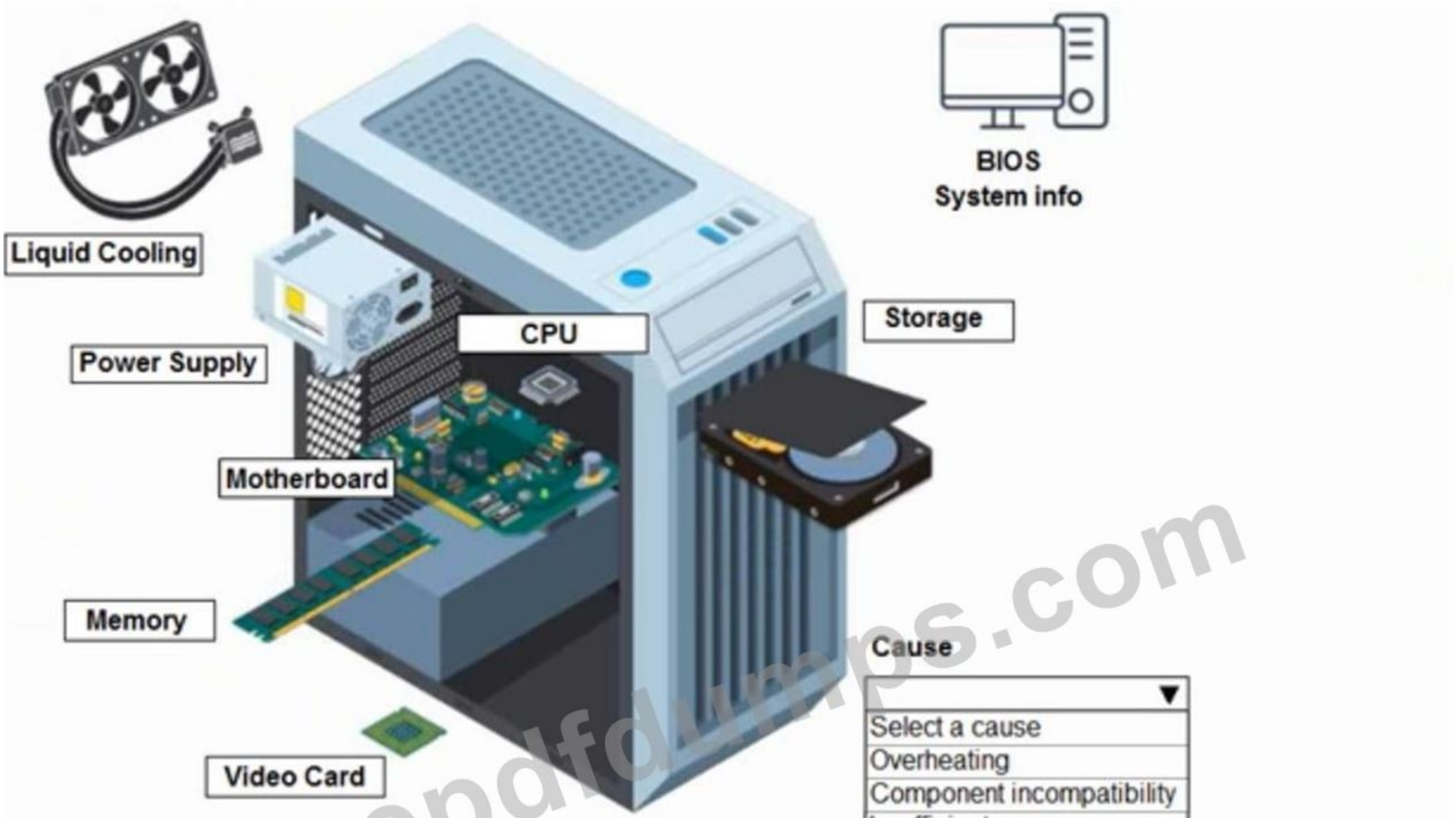
Select a cause
Overheating
Component incompatibility
Insufficient power
Overclocking

Resolution

Select a resolution
Replace PSU with higher wattage model
Update motherboard firmware
Install larger radiator
Lower CPU clock speed
Increase CPU multiplier
Run CHKDSK on NVMe drive
Replace thermal paste
Decrease CPU voltage
Raise memory frequency
Switch motherboard for micro-ATX form factor
Decrease memory module frequency
Replace GPU with lower performance model

CompTIA

Answer:



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Cause

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Run CHKDSK on NVMe drive
Replace thermal paste
Decrease CPU voltage
Raise memory frequency
Switch motherboard for micro-ATX form factor
Decrease memory module frequency
Replace GPU with lower performance model

CompTIA

Explanation:
Overclocking too much can cause freezes, and this is a gaming computer so the user probably took it too far.
http://blog.logicalincrements.com/2018/12/4-troubleshooting-tips-overclocking-pc/

NEW QUESTION: 81
Which of the following allows an organization to provide remote desktop resources without providing physical workstations to its users?
A. RMM
B. SaaS
C. VDI
D. Containers
Answer: C (LEAVE A REPLY)
VDI (Virtual Desktop Infrastructure) is a technology that hosts desktop operating systems and applications on centralized servers in a data center or cloud environment, allowing users to access them remotely from any device with an internet connection. The user's device acts as a
"thin client," providing only the display and input interface, while all data and applications remain securely on the organization's servers. This meets the requirement of not providing physical workstations to users and not installing applications or data locally on user devices.

NEW QUESTION: 82
After replacing a laptop screen, a technician is unable to see Wi-Fi connections. Which of the following will most likely resolve the issue?
A. Turning the Wi-Fi on
B. Replacing the wireless card
C. Making sure that all cables are plugged in
D. Disabling Wi-Fi Protected Access
Answer: C (LEAVE A REPLY)
Replacing a laptop screen often requires disconnecting internal components, and the Wi-Fi antenna cables are commonly routed near the display; ensuring all internal cables are properly reconnected restores wireless connectivity.

NEW QUESTION: 83
Which of the following drive interfaces is typically used in server systems but not in home computers?
A. NVMe
B. SAS

C. SATA
D. PCIe
Answer: B (LEAVE A REPLY)
SAS (Serial Attached SCSI) is a high-performance drive interface commonly found in enterprise environments and servers due to its reliability and speed. While SATA is more common in consumer systems, SAS is specifically designed for mission-critical applications, offering features like full-duplex operation and compatibility with SATA drives.

NEW QUESTION: 84
A thief stole a company phone and successfully extracted confidential company information from the device. Which of the following should have been used to prevent the extraction?
A. GPS
B. EPS
C. eSIM
D. MDM
Answer: D (LEAVE A REPLY)
MDM (Mobile Device Management) enforces security policies, such as encryption, remote wipe, and access control. It could have remotely wiped the device or locked it down to prevent data theft.

NEW QUESTION: 85
Which of the following describes an advantage of traditional HDDs over SSDs?
A. Faster data access speeds
B. Increased energy efficiency
C. Higher storage capacity per cost
D. Lower weight and size
Answer: C (LEAVE A REPLY)
Traditional hard disk drives offer a lower cost per gigabyte, allowing for higher storage capacity at a more affordable price compared to solid-state drives.

NEW QUESTION: 86
Which of the following describes an environment in which virtual machines are hosted on premises and in a cloud?
A. Hybrid
B. Public
C. Private
D. SaaS
Answer: A (LEAVE A REPLY)
A hybrid environment combines on-premises infrastructure with cloud-based resources, allowing virtual machines to run in both locations while operating as a single integrated environment.

NEW QUESTION: 87
A technician is troubleshooting an all-in-one laser printer that prints a vertical line when making copies and scans. When users print or receive faxes, the output from the printer is correct. Which of the following should the technician examine to determine the cause of the issue?
A. The pickup rollers
B. The corona wire
C. The document feeder
D. The drum assembly
Answer: (SHOW ANSWER)

A scratch or debris on the feeder's glass or its rollers will show up as a vertical line on any copy/scan, while outgoing prints (which use the drum and toner path) remain unaffected.

NEW QUESTION: 88
A technician needs to deploy a router at a home office to provide internet access. The WAN port is required to connect to a static, public IP address assigned by the ISP. Which of the following should the ISP assign?
A. 10.1.1.1
B. 172.16.0.1
C. 192.30.0.1
D. 192.168.10.1
Answer: C (LEAVE A REPLY)
192.30.0.1 is a public IP address, which can be assigned by an ISP for WAN connectivity. The other options (10.x.x.x, 172.16.x.x-172.31.x.x, and 192.168.x.x) are private IP ranges and cannot be used as public-facing addresses on the internet.

NEW QUESTION: 89
An employee tries to use a projector to share a slideshow from a laptop. The projector displays the message No video signal from source device. A technician verifies that all cables are properly connected. Which of the following steps will most likely resolve this issue?
A. Changing the input
B. Using a different computer
C. Power cycling the laptop
D. Putting the slideshow on a USB
Answer: A (LEAVE A REPLY)
Changing the input ensures the projector is set to the correct source that matches the connected video cable, allowing it to receive and display the video signal from the laptop.

NEW QUESTION: 90
A technician is troubleshooting a recently installed printer that is leaving multiple lines and streaks on print jobs. Which of the following should the technician replace first?
A. Rollers
B. Drum
C. Toner
D. Fuser
Answer: C (LEAVE A REPLY)
Streaks and multiple lines on print jobs are commonly caused by an issue with the toner cartridge, such as a damaged or improperly installed cartridge. The technician should replace the toner first as it is the most likely and simplest component to check.

NEW QUESTION: 91
A user arrives at the office and is unable to access the company's network on a smartphone. The user enables Wi-Fi on the smartphone, but it only shows the 5G symbol. Which of the following device settings should the user configure to fix this issue?
A. Autoconnect
B. VPN
C. Encryption
D. WPS
Answer: A (LEAVE A REPLY)

If the smartphone is showing a 5G symbol, it is connected to a cellular network rather than Wi-Fi.
Enabling Autoconnect ensures the device automatically connects to the company Wi-Fi when in range, resolving the issue.

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NEW QUESTION: 92
Which of the following will most likely be used in a testing environment to execute unauthorized or experimental code without affecting production systems?
A. Virtual machines
B. Hybrid cloud
C. Load balancers
D. Application gateways
Answer: (SHOW ANSWER)
Virtual machines (VMs) are widely used in testing and development environments to provide isolated, contained instances that mimic production systems. This isolation ensures that any unauthorized, experimental, or potentially harmful code executed within the VM does not affect the host operating system or the production network. The VM acts as a "sandbox," allowing for safe testing and analysis.

NEW QUESTION: 93
A user's company-issued smartphone is swollen and will not fit in its protective enclosure. Which of the following would a technician most likely do?
A. Replace the battery.
B. Upgrade the RAM.
C. Change the case.
D. Restore to the factory settings.
Answer: A (LEAVE A REPLY)
A swollen smartphone battery is a sign of chemical degradation and a potential safety hazard.
Replacing the battery restores proper fit and ensures safe operation.

NEW QUESTION: 94
A customer's laptop has been randomly shutting down. The laptop charges intermittently, and the screen dims when the laptop is not charging. Which of the following is the most likely cause of the issue?
A. Malware
B. Failed digitizer
C. Faulty battery
D. Damaged power port
Answer: C (LEAVE A REPLY)
Intermittent charging and automatic dimming when unplugged indicate the battery isn't holding or delivering power properly, causing shutdowns when AC power isn't available.

NEW QUESTION: 95
A user reports issues trying to print to a printer. Every time the user tries to print, continuous pages of random characters are printed. There are no smudging or print quality issues. Which of the following should the technician do to resolve this issue?

A. Reinstall the printer driver software.
B. Configure the printer DPI settings.
C. Replace the toner cartridge.
D. Update the printer's firmware.
Answer: A (LEAVE A REPLY)
Continuous pages of random characters indicate a communication or driver mismatch issue between the computer and the printer. Reinstalling the correct printer driver ensures proper interpretation of print jobs and resolves the issue.

NEW QUESTION: 96
A technician needs to prepare a conference room for a meeting. The technician connects the laptop to the LCD projector and audio system, and then verifies the connectivity of each device.
The meeting begins, but the visual presentation suddenly cuts off 30 minutes later. The audio continues to play without interruption. The technician brings in a backup laptop and connects it to the projector.
The meeting continues without issue for 15 minutes until the presentation suddenly cuts off again. Which of the following should the technician do to resolve this issue?
A. Check the laptop's audio output
B. Verify the input source
C. Examine the display for burn-in
D. Inspect the cables for damage
E. Clean or replace the filter
Answer: E (LEAVE A REPLY)
Overheating is a common cause of projectors shutting down after extended use. A clogged air filter can cause overheating, resulting in intermittent shutdowns.

NEW QUESTION: 97
An end user reports that their laptop shuts down when they undock it. Even when using a new charging cable, the issue persists. Which of the following should the technician do next?
A. Flash the BIOS
B. Update the drivers
C. Try a different charger
D. Replace the battery
Answer: (SHOW ANSWER)
If a laptop shuts down when undocked and remains powered off even with a new charging cable, the internal battery is likely faulty and cannot hold a charge. Replacing the battery is the next troubleshooting step.

NEW QUESTION: 98
A user connects their laptop to a projector in a conference room. Once connected, the userreports the screen is smaller at the bottom than at the top. The user tries restarting the laptop and then disconnecting and reconnecting the cable to the projector. Which of the following should a technician do to resolve the issue?
A. Replace the HDMI cable.
B. Power cycle the projector.
C. Adjust the keystone
D. Increase the resolution.
Answer: C (LEAVE A REPLY)
A distorted image where the screen is not symmetrical (wider at the top or bottom) is typically due to keystone distortion. Adjusting the projector's keystone settings corrects this trapezoidal effect caused by an angled projection.

NEW QUESTION: 99
A technician installs an upgraded wireless access point. The technician then notices the activity light comes on briefly and turns off. The access point continues to exhibit this behavior repeatedly and does not come online. Which of the following is the most likely cause of this issue?
A. High latency
B. Port flapping
C. External interference
D. Channel conflict
Answer: B (LEAVE A REPLY)
Port flapping refers to a network port continuously going up and down, which can prevent the access point from fully coming online.
NEW QUESTION: 100
Which of the following is the best to use to stream real-time video from a network camera?
A. UDP
B. TCP
C. FTP
D. RDP
Answer: (SHOW ANSWER)
UDP (User Datagram Protocol) is the preferred protocol for real-time video streaming, such as feeds from network cameras. UDP prioritizes speed and low latency over guaranteed delivery, making it ideal for time-sensitive applications.
Real-time video streaming can tolerate occasional packet loss, but it cannot tolerate delays caused by retransmissions. UDP does not perform error checking or packet retransmission, which reduces overhead and ensures smooth, continuous playback. This is critical for live video feeds where delayed packets are useless.

NEW QUESTION: 101
Which of the following should a technician check when the display of a computer is flickering?
A. LCD type
B. Refresh rate
C. Screen resolution
D. Pixel density
Answer: B (LEAVE A REPLY)
Display flickering is commonly caused by an incorrect or unsupported refresh rate. Checking and adjusting the refresh rate ensures the display updates at a stable frequency supported by both the monitor and graphics adapter.

NEW QUESTION: 102
The power supply for a user's gaming PC fails. The user installs a new power supply and connects it to the motherboard, GPU, and SSDs, but the computer will not start. What is the most likely cause?
A. The computer requires more RAM
B. The wattage is insufficient
C. The user did not connect the 4-pin CPU connector
D. The power supply only works in redundant configurations
Answer: C (LEAVE A REPLY)
Modern gaming systems require both the 24-pin ATX connector to the motherboard and a separate 4-pin or 8-pin CPU power connector near the CPU socket; if the CPU connector is missing, the system will not start even if the GPU and drives are powered.
Insufficient wattage would typically cause instability, shutdowns, or failure under load, not a complete failure to power on immediately after installation when only basic components are attached.

NEW QUESTION: 103
A high-end workstation with a RAID 5 array is exhibiting slow data access speeds and occasional errors when retrieving files. The technician investigates further and notices one of the hard drives in the RAID array has an amber light. Which of the following steps should the technician take to troubleshoot and resolve the issues?
A. Review network issues that might be causing slow speeds.
B. Upgrade all RAID drives to higher capacity models to increase data access speeds.
C. Replace the failing drive, and then allow the RAID controller to rebuild the array.
D. Reformat all drives in the RAID array to clear any software issues that might be causing the errors.
Answer: (SHOW ANSWER)
An amber light indicates a degraded or failing member of the RAID 5 array. Swapping in a new drive and letting the controller rebuild restores full redundancy and performance without risking data loss.

NEW QUESTION: 104
SIMULATION 9
An office manager reports that a printer is experiencing performance issues. Printouts are smudging when they are handled and recently whenever they need to print legal sized documents, the paper jams before anything is printed on it.
The following paper sizes are used:
Letter (8.5x11in/21.59x27.94cm)
Legal (8.5x14in/21.59x35.56cm)
Oversized(11x17in/27.94x43.18cm)
INSTRUCTIONS
Using the dropdown menus, select from the available printer parts to replace only the faulty components on the office printer to resolve the stated issues.
If at any time you would like to bung back me initial state or me simulation, please click me Reset All button.


Duplexer
Fuser
Toner
Ink cartridge
Rollers
Tray 2 (8.5x11in/21.59x27.94cm)
Duplexer
Fuser
Toner
Ink cartridge
Rollers
Duplexer
Fuser
Toner
Ink cartridge
Rollers
CompTIA
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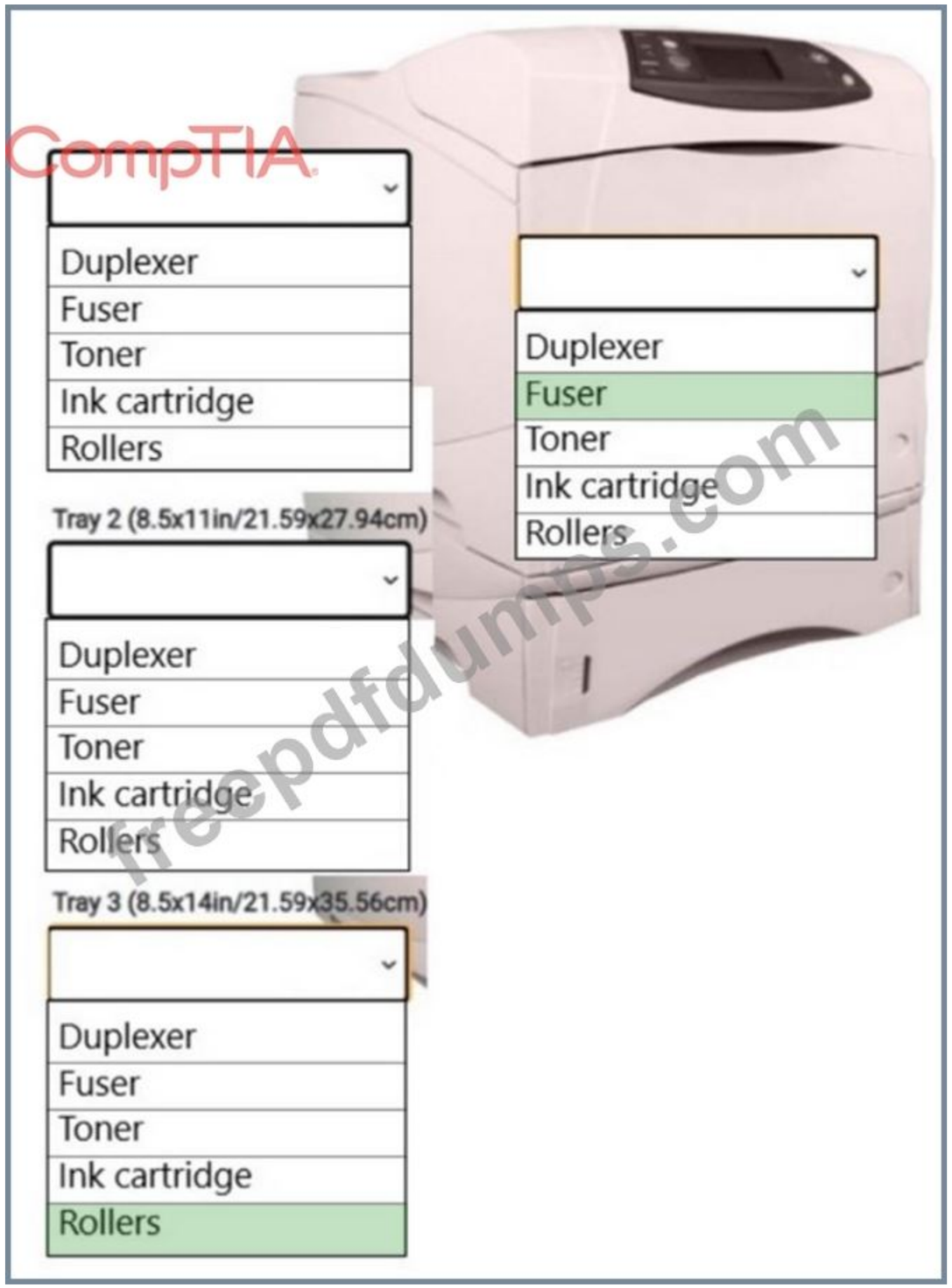
Tray 3 (8.5x14in/21.59x35.56cm)
Duplexer
Fuser
Toner
Ink cartridge
Rollers

Answer:



NEW QUESTION: 105
Which of the following connectors supports High-bandwidth Digital Content Protection (HDCP)?

A. DVI-A
B. F-type
C. VGA
D. DisplayPort
Answer: D (LEAVE A REPLY)
DisplayPort supports HDCP (High-bandwidth Digital Content Protection), which encrypts digital signals to prevent unauthorized copying of protected media during transmission between devices.

NEW QUESTION: 106
A technician needs to provide a new employee with a phone number for their company mobile phone number. Which of the following is the most cost-effective and professional way to complete this task?
A. Forward a company number to the employee's mobile phone.
B. Offer a company SIM card to the employee.
C. Give a company mobile phone to the employee.
D. Issue a company eSIM to the employee.
Answer: D (LEAVE A REPLY)
An eSIM allows provisioning a company phone number digitally without issuing additional physical hardware, making it a cost-effective and professional solution while maintaining separation of business and personal use.

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NEW QUESTION: 107
A data center technician notices that one of the servers in a RAID 5 configuration is experiencing slow performance. A message in the server logs indicates a degraded RAID array. Which of the following actions should the technician take to address the degraded RAID array?
A. Replace the failed drive with a new one.
B. Reseat all existing drives to improve connection.
C. Perform a disk defragmentation on all drives.
D. Change the RAID configuration to RAID 6.
Answer: (SHOW ANSWER)
A degraded RAID 5 array indicates that one drive has failed, and replacing the failed drive allows the array to rebuild redundancy and restore normal performance.

NEW QUESTION: 108
A user reports that they cannot get their laptop to work with a video projector connected with an HDMI cable. The projector is turned on, the HDMI cable is securely connected on both ends, and the laptop displays properly on its own screen. The display mode is set to "Duplicate" on the laptop. Which of the following is most likely causing the issue?
A. The projector does not support HDMI connections.
B. The laptop display mode should be set to "Extend".
C. An HDMI port on the projector failed.
D. The input source is incorrect on the projector.
Answer: (SHOW ANSWER)

Even when the cable is properly connected and the laptop display mode is correctly set, the projector will not show an image unless it is set to the correct input source. If the projector is set to a different input than HDMI, it will not display the laptop's output.

NEW QUESTION: 109
A technician needs to move a workstation to a different logical network segment. Which of the following technologies should the technician use?
A. DHCP
B. VLAN
C. DNS
D. VPN
Answer: B (LEAVE A REPLY)
AVLAN (Virtual LAN)is used to logically segment a network without requiring physical separation.
It enables grouping devices based on function or department regardless of their physical location.

NEW QUESTION: 110
Which of the following is an example of SaaS?
A. Videoconferencing
B. Managed VDI
C. Hosted database
D. Hypervisor
Answer: A (LEAVE A REPLY)
Videoconferencing platforms (e.g., Zoom, Microsoft Teams) are delivered entirely as cloud-based applications that users access over the Internet, fitting the Software-as-a-Service model.

NEW QUESTION: 111
In which of the following cloud models is the customer not responsible for hardware and OS layers but is responsible for the data and the application?
A. PaaS
B. SaaS
C. IaaS
D. CaaS
Answer: (SHOW ANSWER)
In Platform as a Service (PaaS), the cloud provider manages the hardware, operating system, and middleware, while the customer is responsible for managing data and applications.

NEW QUESTION: 112
Which of the following is designed for interaction to take place via an OS running on the host rather than the host directly?
A. Type 1 hypervisor
B. Type 2 hypervisor
C. Elasticity
D. Multitenancy
Answer: B (LEAVE A REPLY)
A Type 2 hypervisor runs on top of a host operating system and relies on that OS for hardware interaction. Virtual machines (VMs) operate within this environment, making the interaction occur through the host OS rather than directly with the hardware.
NEW QUESTION: 113

A technician replaced a failed PSU on a high-end workstation PC. Now, the PC fails to POST and does not stay turned on for more than five seconds. Which of the following power connections was most likely forgotten during installation?

A. 5V

B. 12V

C. 120V

D. 220V

Answer: B (LEAVE A REPLY)

The issue described suggests the 12V CPU power connector was likely forgotten during installation. The 12V power rail is essential for the operation of high-end workstation components, including the CPU. Without the 12V connection, the system will fail to POST and may power off shortly after being turned on.

Why 12V?

The 12V connector is critical for providing power to the CPU via the motherboard. Modern CPUs require a dedicated power source from the PSU, usually supplied through the 4-pin or 8-pin EPS12V connector.

If this connection is omitted, the motherboard will not receive adequate power for the CPU to function, resulting in the system failing to POST or shutting down after a brief period.

NEW QUESTION: 114

Which of the following is a common feature of managed switches?

A. Remote device power delivery

B. Port VLAN assignment

C. Content filtering

D. Load balancing

Answer: B (LEAVE A REPLY)

Managed switches allow administrators to assign individual ports to specific VLANs, enabling network segmentation and improved traffic control directly on the switch.

NEW QUESTION: 115

A human resources manager printed a sensitive employee termination announcement and forgot to retrieve the document from the printer. Which of the following is a way to avoid this situation?

A. Badging

B. Duplex

C. Printer share

D. Wireless encryption

Answer: A (LEAVE A REPLY)

Badging requires the user to authenticate at the printer before the document is released, ensuring sensitive print jobs are not left unattended and are only retrieved by the intended individual.

NEW QUESTION: 116

An employee cannot connect to the wireless network at the office but can connect to a personal wireless network when at home. The technician verifies the wireless network name is correct, and the signal strength appears to be strong. Which of the following is the best action for the technician to take to resolve the issue?

A. Install the current 802.1X certificate.

B. Check the wireless router settings.

C. Update the wireless driver.

D. Disable the Windows firewall.

Answer: A (LEAVE A REPLY)

802.1X is a network authentication protocol commonly used in enterprise environments. If the user cannot connect to the office wireless network but can connect at home, the issue is likely related to the

802.1X certificate required for authentication. Installing or updating the certificate will resolve the issue.

NEW QUESTION: 117
A company wants to migrate a large amount of data from an on-premises server to a cloud provider. Which connection type is most likely the fastest?
A. Coaxial
B. DSL
C. Fiber
D. SAN
Answer: C (LEAVE A REPLY)
Fiber connections provide the highest bandwidth and lowest latency among the listed options, making them the fastest and most suitable choice for transferring large volumes of data to a cloud provider.

NEW QUESTION: 118
Each lime a user ties to print, the paper becomes stuck at the last stage of the print job and the user has to poll me paper out of the printer.
Which of the following is me most likely cause?
A. Rollers
B. Tray assembly
C. Toner
D. Printhead
Answer: (SHOW ANSWER)
If paper gets stuck at the last stage of printing, the rollers responsible for moving the paper through the printer are likely worn out or dirty.

NEW QUESTION: 119
Which of the following network technologies is used for the operation of physical access control systems?
A. 802.1X
B. VPN
C. GPS
D. RFID
Answer: (SHOW ANSWER)
Physical access control systems commonly use radio-frequency identification (RFID) technology - ID badges contain RFID tags that are read by door readers to grant or deny entry.

NEW QUESTION: 120
A technician is setting up a locally hosted environment for internal developers who need concurrent access to a wide array of test OSs. Which of the following would best fulfill this requirement?
A. Hypervisor
B. SaaS platform
C. Multiboot server computer
D. Sandbox
Answer: A (LEAVE A REPLY)
A hypervisor allows multiple operating systems to run simultaneously on a single physical host, making it the ideal solution for providing concurrent access to different test environments.
Developers can use virtual machines (VMs) for testing and development.
NEW QUESTION: 121
A technician is troubleshooting stylus issues on identical, company-provided tablets. Users can purchase their own accessories. Some users have no issues, but others report that their styluses charge

intermittently and die frequently.
Which of the following is the most likely cause of this issue?
A. Certain cases are causing charging issues.
B. The tablets need to be updated.
C. Some of the tablets have manufacturing defects.
D. The malfunctioning styluses need firmware updates.
Answer: (SHOW ANSWER)
The most likely cause is third-party or ill-fitting cases obstructing the contact between the stylus and the tablet charging mechanism. Some cases may not be designed with stylus charging in mind, particularly if users are purchasing their own accessories.

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NEW QUESTION: 122
A technician is setting up a workstation. Which of the following settings should the technician configure to ensure that users can connect to the network? (Select three).
A. APIPA
B. Gateway
C. IP address
D. Subnet mask
E. Static routes
F. UPnP settings
G. NAT rules
H. MAC filters
Answer: B,C,D (LEAVE A REPLY)
Gateway - Specifies the next-hop router for traffic destined outside the local subnet, enabling network connectivity.
IP address - Uniquely identifies the workstation on the network, which is required for communication.
Subnet mask - Defines the network and host portions of the IP address, allowing proper routing within the subnet.

NEW QUESTION: 123
Which of the following should a technician use to terminate a Cat 6 cable to a patch panel?
A. Punchdown tool
B. Crimper
C. Toner probe
D. Network tap
Answer: (SHOW ANSWER)
A punchdown tool is specifically used to insert wires into a punchdown block in patch panels, which is typical for Cat 6 and similar cabling. It ensures a secure and correct connection by pushing the wire into a metal groove that slices the insulation.

NEW QUESTION: 124
Which of the following cables provides the best performance with the least EMI?
A. Cat 5
B. Cat 6
C. Cat 7
D. Coaxial
Answer: (SHOW ANSWER)
Category 7 (Cat 7) cables provide the best performance with the least Electromagnetic Interference (EMI) due to their enhanced shielding. Cat 7 cables are designed to support higher speeds and bandwidth while reducing interference compared to Cat 5 or Cat 6.

NEW QUESTION: 125
A customer has bare-metal servers running Windows, Linux, and Unix. They want consolidation while maintaining isolation and compatibility. What should the technician recommend?
A. IaaS
B. Containers
C. Type 2 hypervisor
D. VDI
Answer: A (LEAVE A REPLY)
The customer wants to consolidate multiple physical servers running different operating systems, including Windows, Linux, and Unix, while maintaining strong isolation between systems.
CompTIA A+ identifies Infrastructure as a Service (IaaS) as the best model for hosting fully isolated virtual machines in a cloud environment, allowing each OS to run independently on its own virtual hardware.
IaaS provides virtualized computing resources-CPU, RAM, networking, and storage--while allowing the customer full control over the OS and application layer. This means Windows, Linux, and Unix VMs can coexist without compatibility concerns because each VM runs its native OS without modification.

NEW QUESTION: 126
A user reports that a phone's integration features consistently stop and restart when charging the phone in a car. A technician checks the phone and finds no malicious applications. Which of the following should the technician do to fix the issue?
A. Clean the connection port.
B. Replace the cable with a longer cable.
C. Reinstall MDM software on the phone.
D. Discharge the battery.
Answer: A (LEAVE A REPLY)
Cleaning the connection port can resolve issues caused by dirt, debris, or corrosion interfering with the phone's charging and data connection, which can cause integration features to stop and restart.

NEW QUESTION: 127
A user is unable to access secure applications on their tablet when working from home a couple days per week, but the applications work when in the office. Which of the following services most likely needs to be reconfigured to allow for remote work?
A. Global Positioning System
B. Mobile device management
C. Wi-Fi Protected Access
D. Near-field communication
Answer: B (LEAVE A REPLY)

Mobile Device Management (MDM)software often controls access to corporate resources based on location, network, or VPN status. If the MDM is not configured to allow access from outside the office or via home networks, the apps may be blocked. This is the most probable cause if apps work only on- premises.

NEW QUESTION: 128
Multiple organizations are working together on a project and want to migrate the data to the cloud.
Which of the following cloud models should be used?
A. Public
B. Hybrid
C. Private
D. Community
Answer: (SHOW ANSWER)
A community cloud is designed for multiple organizations with shared goals or projects, allowing collaboration while maintaining a level of privacy. This cloud model is ideal for the scenario where organizations are working together and need to migrate project-related data to the cloud.

NEW QUESTION: 129
A user is receiving many unsolicited emails. Which of the following controls can be configured to best reduce these types of emails?
A. Load balancer
B. Spam gateway
C. Mail forwarding
D. Proxy servers
Answer: B (LEAVE A REPLY)
A spam gateway filters unsolicited emails at the server level, significantly reducing spam before it reaches user inboxes.

NEW QUESTION: 130
An employee requires a workstation with three high-end graphics cards to render 3-D models. A technician must choose a power supply that meets the power requirements for the components and takes into consideration the mission-critical nature of the work. Which of the following meet the requirements? (Choose two.)
A. 12V output
B. Modularity
C. 20-pin motherboard connector
D. Redundancy
E. 3.3V output
F. 240 VAC input
Answer: (SHOW ANSWER)
High-end graphics cards draw the majority of their power from the 12V rail, making sufficient and stable 12V output essential to meet performance and load requirements. Redundancy is critical for mission-critical workstations to ensure continued operation and prevent downtime in the event of a power supply failure.

NEW QUESTION: 131
A technician is putting RJ45 connectors on Cat 6 cables.
Which of the following tools should the technician use to secure the connectors?
A. Loopback plug
B. Crimping

C. Punchdown
D. Wire cutters
Answer: (SHOW ANSWER)

NEW QUESTION: 132
A company wants to optimize its hardware usage by running multiple operating systems concurrently on a single physical server. Which of the following concepts achieves this goal?
A. Host-based virtualization
B. Public cloud services
C. High-availability clustering
D. Software as a service
E. Load balancing
Answer: (SHOW ANSWER)
Host-based virtualization allows multiple operating systems to run simultaneously on a single physical server by using a host OS with a hypervisor layer, optimizing hardware utilization.

NEW QUESTION: 133
An administrator is investigating a misuse of printer resources. The administrator suspects an employee. Which of the following will help the administrator verify the source of misuse?
A. Secure printing
B. Print counter
C. Audit logs
D. User authentication
Answer: (SHOW ANSWER)
To verify the source of printer misuse, the administrator needs detailed records showing who performed specific actions and when. Audit logs provide a historical record of printer activity, including user IDs, timestamps, document names, and print volumes. These logs allow administrators to trace printer usage back to a specific user or device, making them the most effective tool for investigating misuse.

NEW QUESTION: 134
A company is separating its accounting department's network from its customer service department's network. Which of the following will accomplish this task?
A. VPN
B. DNS
C. VLAN
D. DHCP
Answer: C (LEAVE A REPLY)
VLANs (Virtual Local Area Networks) are used to segment a single physical network switch into multiple logical, isolated networks. This allows an administrator to separate traffic from different departments (like accounting and customer service) even if the computers are connected to the same physical networking equipment, without needing to install separate physical cabling and devices. This improves security by ensuring sensitive accounting data is segregated from other network traffic.

NEW QUESTION: 135
A user reports cursor issues on a company laptop. Technician finds a bulge under the trackpad.
Which component should be replaced first?
A. Motherboard
B. Heat sink
C. Battery

D. Trackpad
Answer: C (LEAVE A REPLY)
A physical bulge under the trackpad is a classic CompTIA-identified symptom of a swollen lithium-ion battery. As batteries degrade, internal gas buildup expands the casing, pushing upward on the laptop chassis--often distorting the trackpad, keyboard, or bottom shell. This can cause cursor issues, clicking problems, and safety hazards.
Replacing the battery first is essential because swollen batteries can rupture, leak, or ignite. Only after the battery is removed and replaced should the technician evaluate whether the trackpad suffered permanent damage.

NEW QUESTION: 136
Which of the following services is used to allocate IP addresses in an enterprise-wide environment?
A. DNS
B. Syslog
C. Telnet
D. DHCP
Answer: D (LEAVE A REPLY)
Dynamic Host Configuration Protocol (DHCP) is a network service used to automatically assign IP addresses and other network configuration details (such as subnet masks and default gateways) to devices on an enterprise-wide network.

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NEW QUESTION: 137
A company is testing the latest model of a laptop. After turning on the laptop, there is a noticeable burning smell. Which of the following steps should a technician take to troubleshoot the laptop issue? (Choose two)
A. Turn it off and disconnect all power sources.
B. Submit an emergency request to the local facilities manager.
C. Check for foreign objects, liquid spills, and internal damage.
D. Contact the vendor and submit a return request.
E. Remove the device from the MDM.
F. Try an alternate AC adapter.
Answer: A,C (LEAVE A REPLY)
Turning off and disconnecting all power sources prevents further damage and ensures safety when diagnosing hardware issues.
Checking for foreign objects, liquid spills, and internal damage helps identify the physical cause of the burning smell.

NEW QUESTION: 138
A technician is replacing a failed power supply in a ten-year-old computer When installing the customer-provided power supply, the technician discovers the ATX connector would not plug into the motherboard. The customer wants a cost-effective solution.
Which of the following should the technician do next?
A. Adjust the input voltage.

B. Install a modular power supply.
C. Rebuild the failed power supply.
D. Use a 20-pin to 24-pin adapter.
Answer: (SHOW ANSWER)
Older motherboards use 20-pin connectors, while newer power supplies use 24-pin connectors.
An adapter resolves the compatibility issue cost-effectively.

NEW QUESTION: 139
A company requires all users to have biometric identification enabled. Which of the following features in Windows provides this functionality?
A. Bitlocker
B. Hello
C. Defender
D. Trusted Platform Module
Answer: (SHOW ANSWER)
Windows Hello provides biometric authentication options, including facial recognition, fingerprint scanning, and iris scanning, aligning with the company's requirement for biometric identification.

NEW QUESTION: 140
SIMULATION 6
A technician is installing a wireless access point and is required to run all cabling and make patch cords if necessary.
INSTRUCTIONS
Part1
For each cable type, click the (+) to select the appropriate connector and tool.
Part 2
An access point was moved and no longer has connectivity. Connect the access point, patch panel, and switch by clicking the (+) to select the appropriate cable end for each corresponding location to create a link.
The link will be visible after making the second selection of each pair.
Cable ends may be used multiple times, and all placeholders will be filled.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.
Part 1

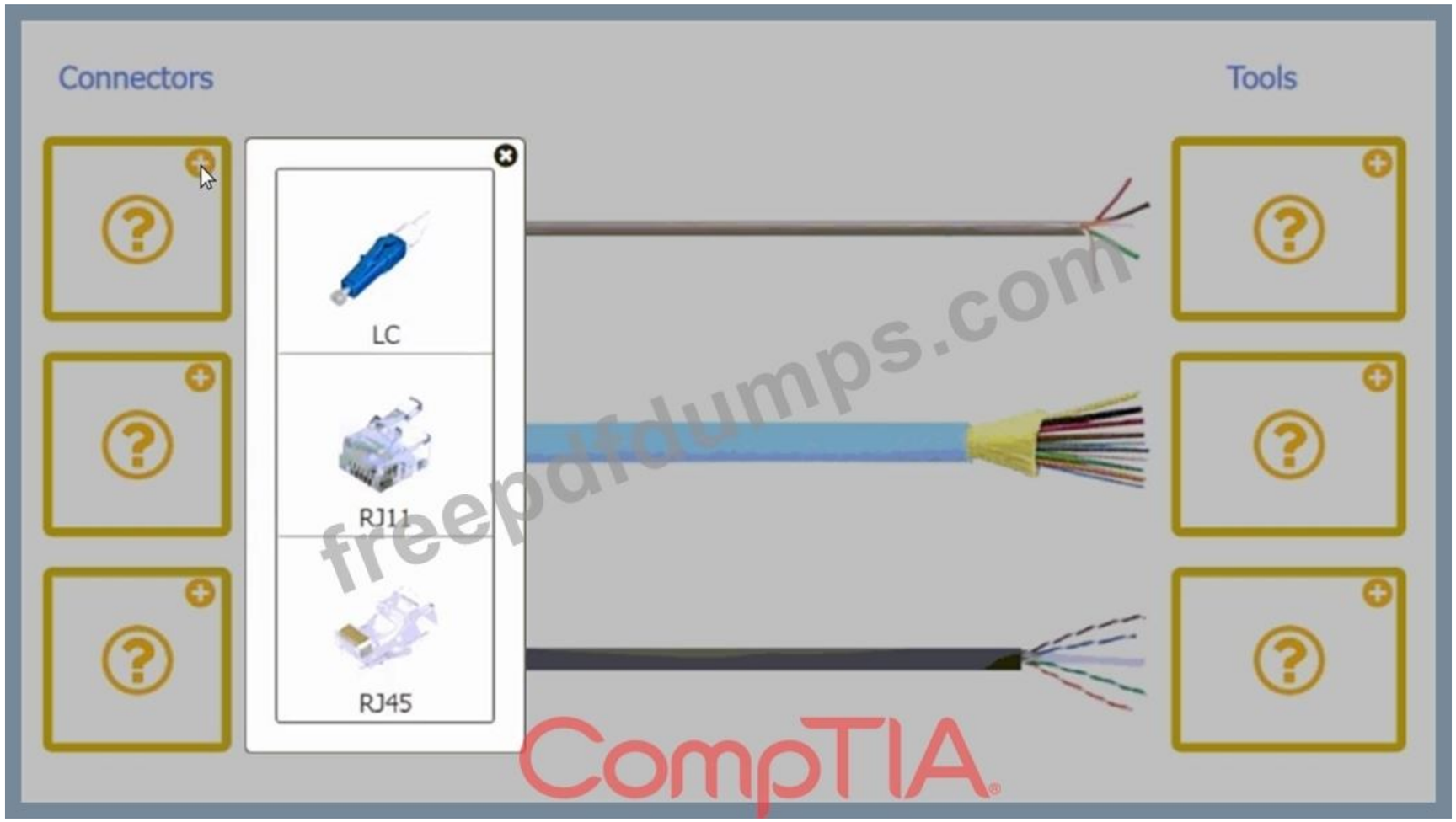
Connectors

Tools





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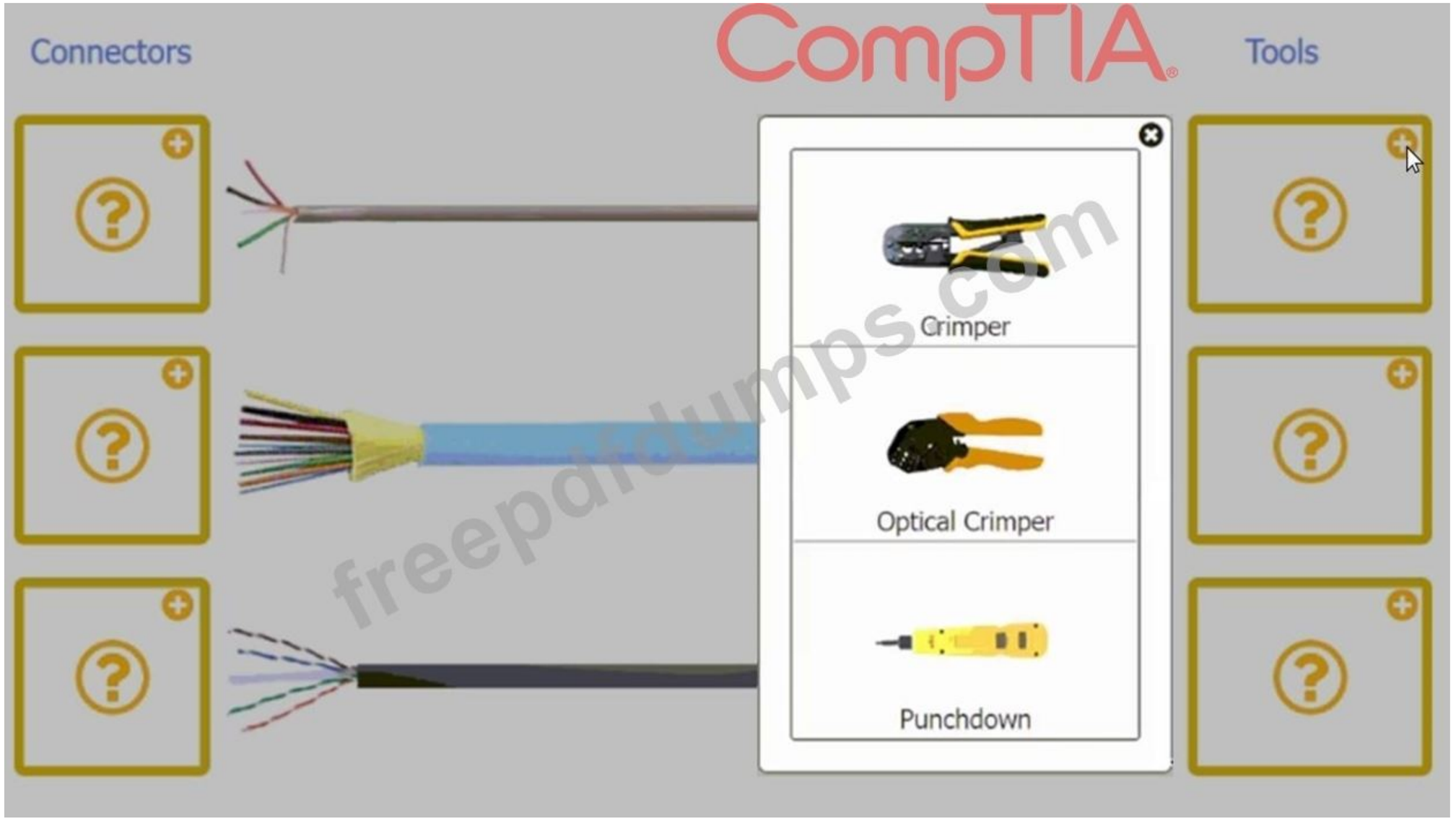
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Optical Crimper
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Part 2









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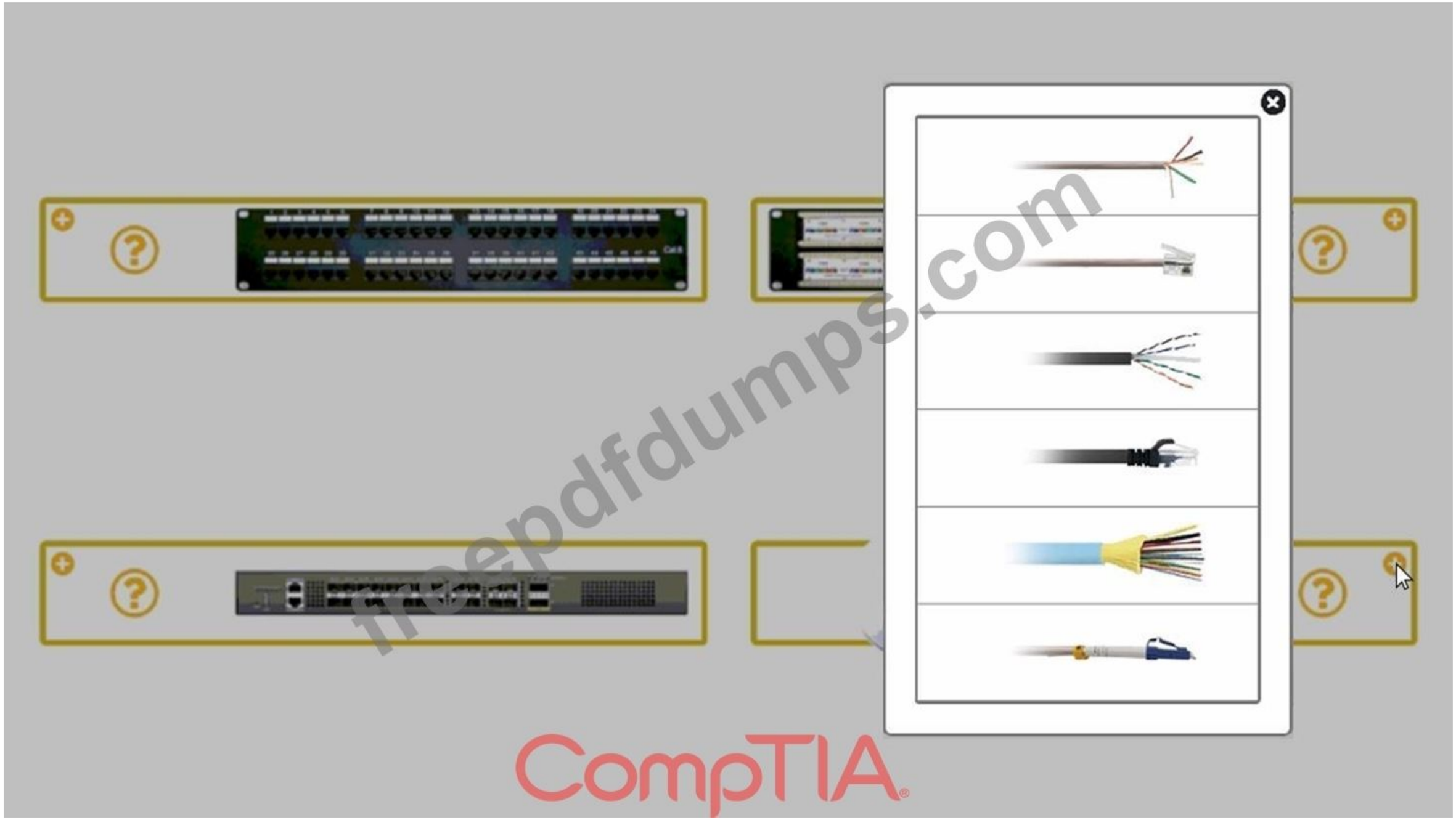
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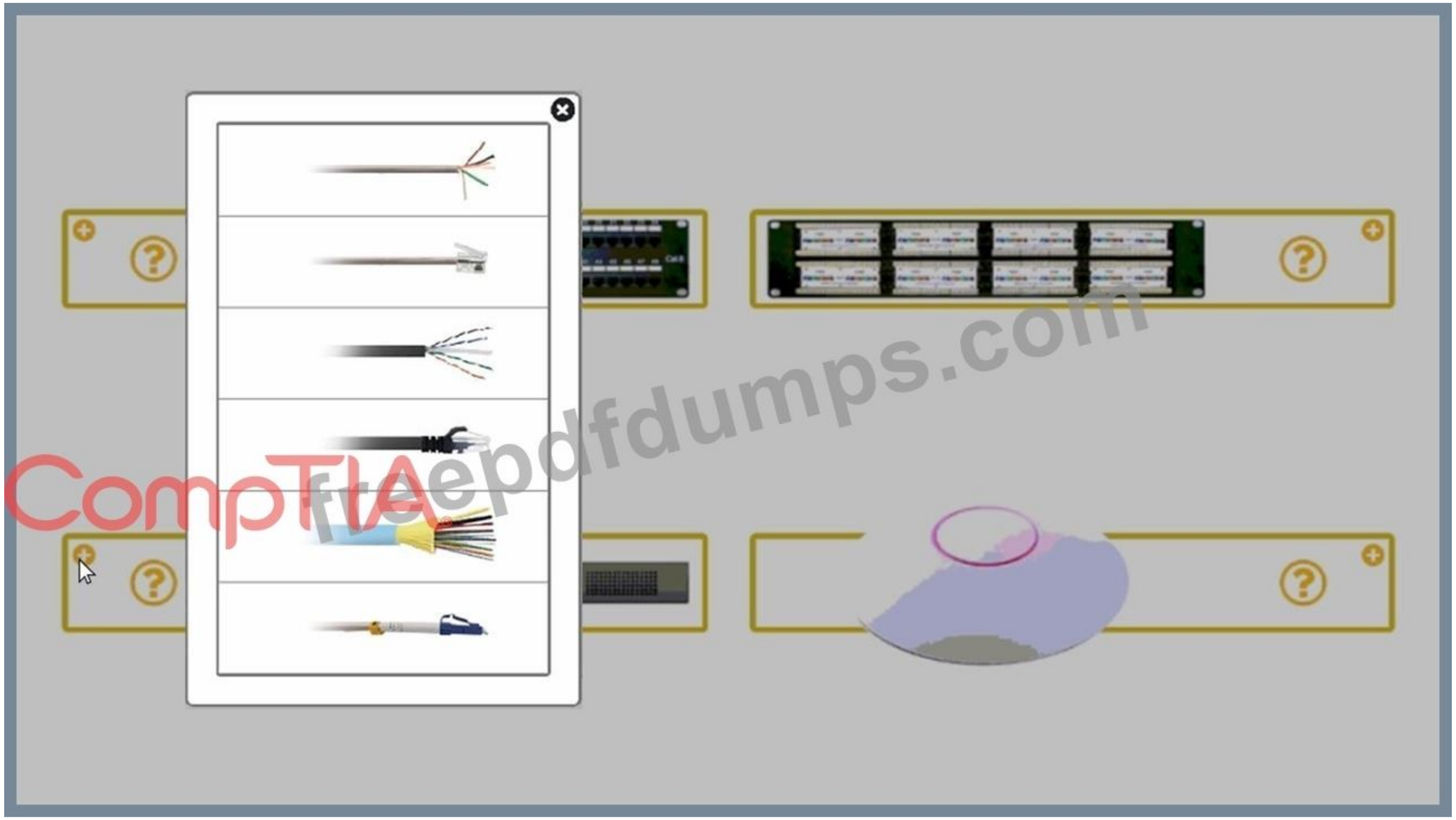

Answer:
Part 1 is RJ11, LC and RJ45
Part 2 is all RJ45

NEW QUESTION: 141
Which of the following record types is used to create an alias for a domain?
A. CNAME
B. AAAA
C. TXT
D. A
Answer: (SHOW ANSWER)

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A CNAME (Canonical Name) record is used in DNS to create an alias that maps one domain name to another canonical domain name. CNAME records allow multiple hostnames to reference the same IP address indirectly by pointing to a single authoritative domain name.

NEW QUESTION: 142
A user's smartphone battery drains faster than usual even when not in use. The smartphone also feels unusually hot. Which of the following should be done first to troubleshoot the issue?
A. Check for applications that are using excessive background resources.
B. Replace the smartphone's battery with a new one.
C. Create a backup and perform a factory reset on the smartphone.
D. Disable Wi-Fi and Bluetooth.
Answer: A (LEAVE A REPLY)
Excessive background activity from apps is the most common cause of unexpected battery drain and overheating. Identifying and closing or uninstalling such apps should be the first troubleshooting step before considering hardware replacement or a full reset.

NEW QUESTION: 143
A management team is concerned about enterprise devices that do not have any controls in place. Which of the following should an administrator implement to address this concern?
A. MDM
B. MFA
C. vpn
D. SSL
Answer: (SHOW ANSWER)
Mobile Device Management (MDM) enables administrators to enforce controls on enterprise devices, such as restricting apps, ensuring compliance, and remotely managing security policies.

NEW QUESTION: 144
A major retailer is moving its online shopping website to the cloud and wants to expand its server resources as needed during busier shopping days. Which of the following should the retailer consider?
A. Location
B. Elasticity
C. Availability
D. Multitenancy
Answer: B (LEAVE A REPLY)
Elasticity in cloud computing refers to the ability to automatically scale resources up or down based on demand, making it ideal for businesses with fluctuating workloads.

NEW QUESTION: 145
Which of the following connectors will uplink a new ISP cable modem to its wall jack?
A. F-type
B. LC
C. RJ45
D. Lightning
Answer: A (LEAVE A REPLY)
Cable modems use coaxial cable to connect to the wall jack, and the standard connector for coaxial cable in ISP cable installations is the F-type connector.
NEW QUESTION: 146
Which storage device is best suited for a high-performance gaming laptop requiring fast data access?

A. 1TB SATA 2.5" HDD
B. 512GB NVMe M.2 SSD
C. 750GB SATA III HDD
D. 1TB SAS SSD
Answer: (SHOW ANSWER)
NVMe SSDs use the PCIe bus and deliver far higher throughput and lower latency than SATA HDDs, which greatly improves load times and responsiveness for games.
2.5" and SATA III HDDs are much slower mechanical drives suited to bulk storage, not high- performance gaming, and SAS SSDs are typically enterprise/server parts, not common or optimal in gaming laptops.

NEW QUESTION: 147
A business purchases a computer with a built-in WWAN card. Which of the following technologies does the computer's WWAN card support?
A. SIM
B. NFC
C. Bluetooth
D. Wi-Fi
Answer: A (LEAVE A REPLY)
A WWAN card enables cellular network connectivity and requires a SIM card to authenticate and connect to a mobile carrier's network.

NEW QUESTION: 148
A technician installs an external camera on a user's laptop. When loading the company meeting software, the video preview shows a blank screen. Which of the following should the technician do next?
A. Select the correct camera source.
B. Replace the camera with a different model.
C. Update the camera software to the latest version.
D. Check the camera's cable for damage or pinches.
Answer: A (LEAVE A REPLY)
When an external camera is installed, conferencing software may default to a different video input. Selecting the correct camera source ensures the application uses the newly installed external camera, resolving the blank video preview.

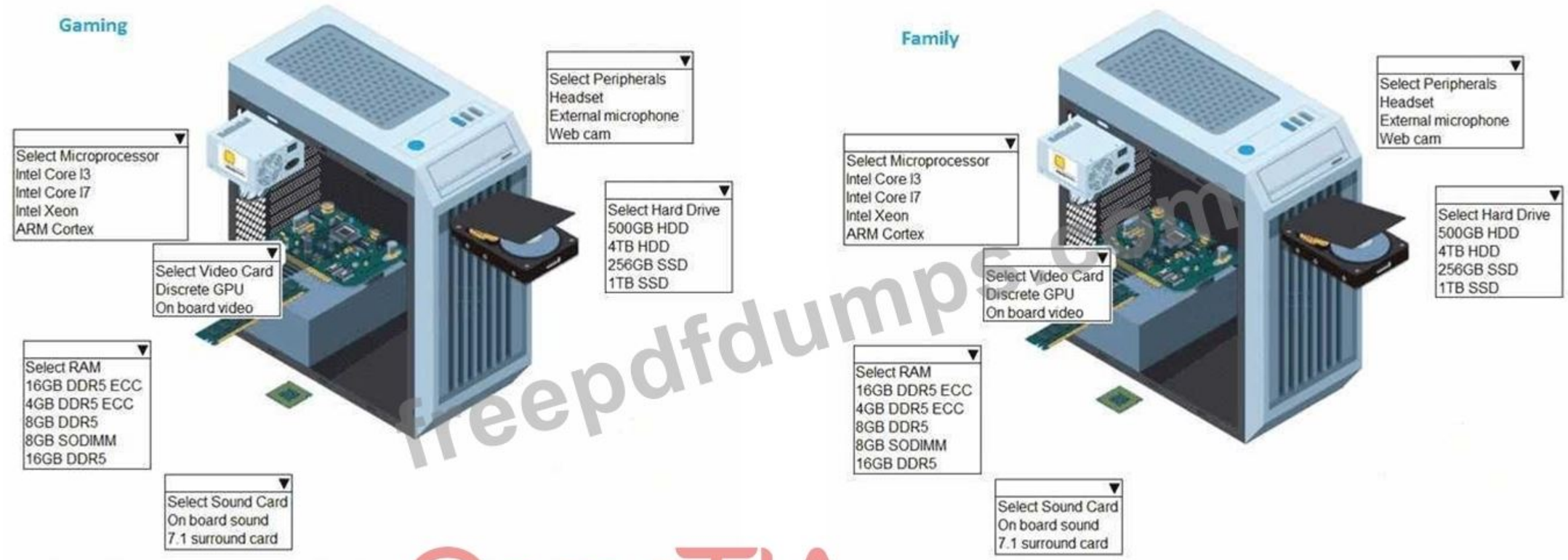
NEW QUESTION: 149
SIMULATION 1
A customer has contacted you about building two new desktops. The first desktop will be a gaming workstation. The customer requirements include:
- Playing the newest games at a high frame rate
- Fast game load times
- Enough storage to have several games installed at once
- 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

INSTRUCTIONS

Use the drop-down menus to select the appropriate component for each category, based on the above requirements.

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



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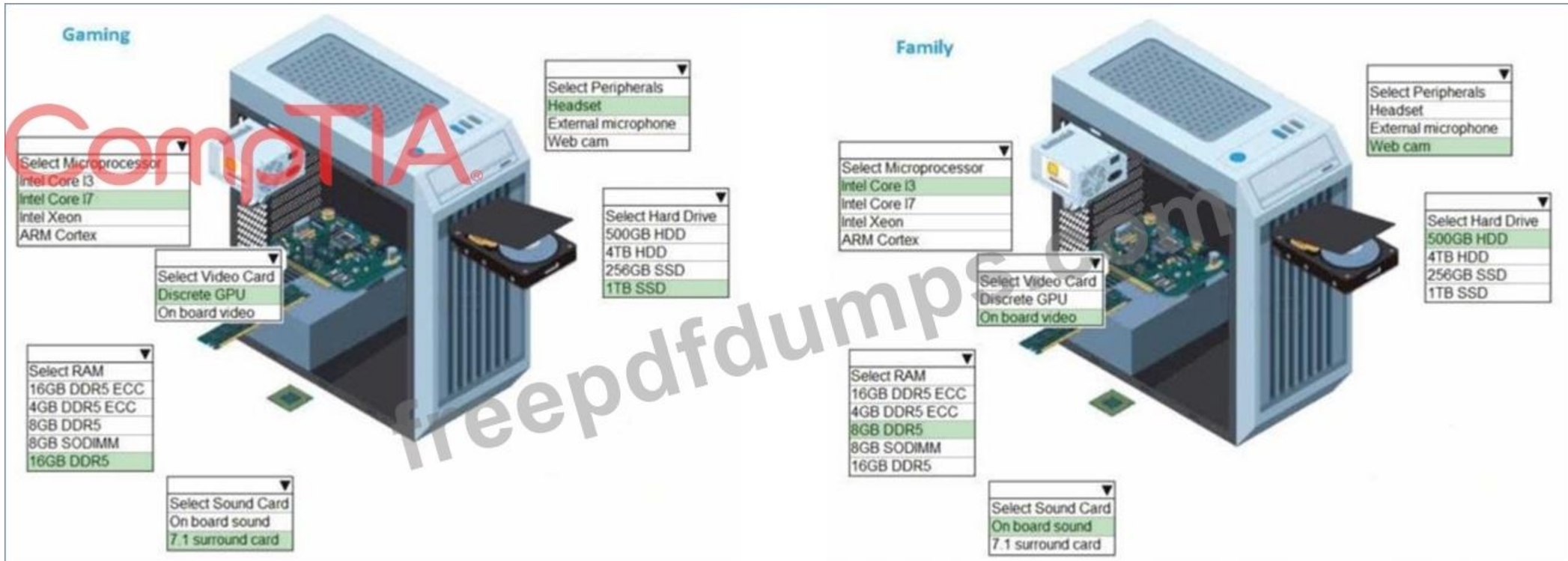
Answer:



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NEW QUESTION: 150
A user brings a laptop to work every morning, correctly seats it in the docking station and then opens the laptop to begin work with no issues After the user left the laptop at home during a two- week vacation the laptop is no longer working. Upon returning to the office, the user reports that the keyboard and display are no longer working.
Which of the following should the technician ask the user to do first?
A. Ensure the docking station is plugged in.
B. Press and release the laptop power button.
C. Plug the laptop in and let it charge overnight
D. Connect the laptop directly to the network.
Answer: B (LEAVE A REPLY)
Reasoning: Many docking stations provide power and functionality only when the laptop is properly powered on. If the laptop was powered off (e.g., during the vacation), docking it will not automatically turn it on. The technician should first ensure the laptop is powered on by pressing the power button. This is a common troubleshooting step when laptops in docking stations appear non-functional.

NEW QUESTION: 151
A technician needs to replace a laptop's display assembly. Which of the following should the technician do to complete this task?
A. Reattach the heat sinks.
B. Reconnect the wireless antennas.
C. Install a new CPU fan.
D. Reset the BIOS to default settings.

Answer: (SHOW ANSWER)
The laptop's wireless antennas are typically routed through the display assembly. When replacing the display, the technician must reconnect these antennas to restore Wi-Fi and Bluetooth functionality.

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NEW QUESTION: 152
Which of the following is the ability to automatically increase and decrease instances based on demand?
A. Availability
B. Scalability
C. Multitenancy
D. Elasticity
Answer: D (LEAVE A REPLY)
Elasticity in cloud computing refers to the ability of a system to automatically allocate and release resources (such as CPU, RAM, or virtual machines) as workload demands change. This feature is key to ensuring that resources are used efficiently without manual intervention.

NEW QUESTION: 153
Users report that multiple desktop computers show the wrong date and time. A technician updates the date and time and restarts the legacy system. When the system restarts, the time and date are incorrect again.
Which of the following should the technician do next to troubleshoot?
A. Configure the hardware clock.
B. Install OS updates.
C. Replace the CMOS batteries.
D. Upgrade the NTP settings.
Answer: C (LEAVE A REPLY)
If the system loses the correct date and time after every reboot, the motherboard is not retaining BIOS/RTC settings when powered off. This is typically caused by a depleted CMOS battery, so replacing it restores proper time retention.

NEW QUESTION: 154
A technician is setting up a new SOHO wireless router. According to security best practices, which of the following should the technician do first?
A. Enable encryption.
B. Assign a static IP.
C. Change the default password.
D. Reset the router.
Answer: C (LEAVE A REPLY)
The first security step after deploying a new router is to change the default administrative password. Default credentials are well known and pose a security risk if left unchanged.
NEW QUESTION: 155
A user with a home office wants to add additional devices to the existing internet service while maintaining minimal cost and administration. Which of the following provides the needed functionality?

A. DSL modem
B. Firewall
C. Unmanaged switch
D. Cable modem
Answer: (SHOW ANSWER)
An unmanaged switch allows multiple devices to be added to an existing network with minimal cost and no configuration or ongoing administration, making it ideal for a simple home office environment.

NEW QUESTION: 156
Which of the following technologies allows for a segmented environment in which malicious indicators can be inspected safely?
A. Hypervisor
B. Sandbox
C. virtualization
D. Container
Answer: B (LEAVE A REPLY)
A sandbox provides an isolated environment where suspicious files or programs can be executed and analyzed safely without affecting the host system. This isolation is ideal for inspecting potentially malicious indicators.

NEW QUESTION: 157
A technician has just installed a new SSD into a computer, but the drive is not appearing.
Which of the following is most likely the reason's?
A. The SSD is faulty and should be replaced by the manufacturer
B. The SSD has not been properly formatted and is not readable
C. The SSD is incompatible with the motherboard
D. The SSD has not boon installed properly and should be reseated
Answer: (SHOW ANSWER)
Improper seating is the most common reason an SSD isn't recognized. Ensuring it is correctly connected resolves the issue.

NEW QUESTION: 158
A technician builds a workstation. When the technician starts up the workstation, the technician notices a burning smell. During POST, the workstation shuts down. Which of the following is most likely the cause of these issues?
A. The technician did not properly ground the workstation.
B. The technician chose the wrong type of RAM.
C. The technician did not connect power to the exhaust fan.
D. The technician did not apply thermal paste.
Answer: D (LEAVE A REPLY)
Without thermal paste, proper heat transfer between the CPU and heatsink does not occur, causing the processor to overheat almost immediately during startup. This can produce a burning smell and trigger a shutdown during POST to prevent damage.

NEW QUESTION: 159
A customer reports slow network speeds. Which of the following components is most likely failing?
A. CPU

B. NIC
C. HDD
D. RAM
Answer: (SHOW ANSWER)
A Network Interface Card (NIC)is the hardware responsible for network connectivity. If the NIC is failing or underperforming (e.g., due to a bad driver, hardware fault, or misconfiguration), it can cause slow or unstable network speeds.

NEW QUESTION: 160
Which of the following internet connection types provides the fastest speeds and greatest coverage in less populated areas with minimal infrastructure?
A. Fiber
B. Cable
C. DSL
D. Cellular
Answer: (SHOW ANSWER)
Cellular networks offer broad coverage in rural or less populated areas where laying fiber, cable, or DSL lines may not be feasible or cost-effective. Cellular broadband (4G LTE/5G) provides fast speeds using existing mobile network infrastructure.

NEW QUESTION: 161
A small business owner purchases a building and wants to set up an internet connection. A technician examines the target network room and discovers a coaxial wall jack. Which of the following internet types would the technician most likely recommend for the new business?
A. Fiber
B. Satellite
C. DSL
D. Cable
Answer: D (LEAVE A REPLY)
A coaxial wall jack indicates that the location is wired for cable internet service. Cable internet uses coaxial cabling to deliver high-speed connectivity, making it the most suitable and likely option for this setup.

NEW QUESTION: 162
A help desk technician investigates a laser printer issue. Smudges are appearing on the printed pages, but they are not present on the document that was sent to the printer. Which of the following should the technician do first to diagnose the issue?
A. Use a different kind of printing paper.
B. Inspect the printer drum.
C. Update the printer firmware.
D. Replace the toner.
Answer: B (LEAVE A REPLY)
Smudges on printed pages typically indicate an issue with the imaging process, most commonly involving the drum. Inspecting the drum first helps identify defects or contamination causing the smudging.

NEW QUESTION: 163
A small office is using an internal subnet that includes 192.168.1.0 through 192.168.1.255. Which of the following is the proper subnet mask?
A. 0.0.0.0

B. 255.0.0.0
C. 255.255.255.0
D. 255.255.255.128
Answer: C (LEAVE A REPLY)
The range 192.168.1.0-192.168.1.255 corresponds to a /24 network, which uses the subnet mask 255.255.255.0.

NEW QUESTION: 164
An organization uses a vendor-hosted database server. Which of the following best describes this solution?
A. Hybrid cloud
B. PaaS
C. IaaS
D. SaaS
Answer: B (LEAVE A REPLY)
A vendor-hosted database server is a platform service where the provider manages the underlying infrastructure and database engine, allowing the organization to focus on using the database without managing servers or operating systems.

NEW QUESTION: 165
A workstation is making clicking sounds inside the case. The UEFI POST takes longer than usual, but the system starts up and all the programs function normally. Which of the following should a technician enable in the UEFI to troubleshoot this issue?
A. Trusted Platform Module
B. Hyperthreading
C. Virtualization extensions
D. Self-monitoring and Reporting Technology
Answer: D (LEAVE A REPLY)
Clicking sounds and delayed POST commonly indicate a failing hard drive. Enabling Self- Monitoring, Analysis, and Reporting Technology allows the system to monitor drive health and report potential hardware failures, helping diagnose the issue before total drive failure occurs.

NEW QUESTION: 166
A company provides cell phones to employees who travel internationally. An employee brings their phone to the help desk so the necessary equipment can be installed. However, the technician cannot install any new hardware on the phone. Which of the following will the technician require so the phone can connect to a different provider?
A. USB-C
B. SD card
C. eSIM
D. MDM
Answer: (SHOW ANSWER)
An eSIM (embedded SIM) allows users to change carriers and provision new cellular service without installing any physical hardware. It is managed via software and is ideal for international travelers who need to switch providers quickly.

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NEW QUESTION: 167
A company decides to subscribe to a cloud service to provide email for its employees. Which of the following cloud models is the company adopting?
A. PaaS
B. SaaS
C. DaaS
D. IaaS
Answer: B (LEAVE A REPLY)
SaaS (Software as a Service) delivers software applications, such as email services, over the internet on a subscription basis without requiring the company to manage underlying infrastructure or platforms.

NEW QUESTION: 168
A salesperson is unable to use a personal device to access emails and calendar features at a client site but was able to use the device while at the office.
Which of the following policies has been enforced on the salesperson's mobile device?
A. MOW
B. MAN
C. MFA
D. MAM
Answer: D (LEAVE A REPLY)
Mobile Application Management (MAM) enforces policies restricting access to apps and services based on location, ensuring security at external sites.

NEW QUESTION: 169
A network operations analyst receives an automated alert regarding a server with an array. The analyst walks over to the server and sees a blinking orange light at the hard disk bay. The server is configured for RAID 1. Which of the following should the analyst do to resolve this issue?
A. Change the array to RAID 0.
B. Undo the array and create a new one.
C. Update RAID card firmware.
D. Replace the hard disk and rebuild the array.
Answer: D (LEAVE A REPLY)
A blinking orange light typically indicates a failed hard drive in the RAID array. In RAID 1 (mirroring), you can replace the failed drive and rebuild the array without data loss.

NEW QUESTION: 170
Which of the following connector types is associated with coaxial terminations serving cable internet deployments?
A. DB9
B. ST
C. F-type
D. RJ45
Answer: C (LEAVE A REPLY)
F-type connectors are commonly used to terminate coaxial cables in cable internet, cable TV, and satellite connections.

NEW QUESTION: 171
Which of the following is designed to be used in commercial spaces?
A. USB 3.1 Gen 2
B. Straight tip fiber connector
C. Plenum cabling
D. Cat 8
Answer: C (LEAVE A REPLY)
Plenum cabling is designed for use in commercial spaces where cables run through air ducts or plenum spaces, as it has fire-resistant properties and emits less toxic smoke.

NEW QUESTION: 172
A client is unable to unlock their smartphone. When they try to enter their code, the input is unsuccessful.
Which of the following components has most likely failed?
A. Charging port
B. Touch screen
C. OLED
D. Biometric scanner
Answer: B (LEAVE A REPLY)
The touch screen detects user input such as taps and key presses. If the phone does not register code entry, the digitizer layer of the touch screen has likely failed, preventing the device from recognizing touches.

NEW QUESTION: 173
A programmer needs to run a virtual machine on their laptop to test an application. Which of the following virtualization technologies is the best way to accomplish this goal?
A. Containerization
B. Hypervisor
C. Virtual desktop infrastructure
D. Emulation
Answer: B (LEAVE A REPLY)
A hypervisor enables the creation and management of virtual machines on a host system, allowing the programmer to run a separate operating system environment on the laptop for testing purposes.

NEW QUESTION: 174
A user has two SSDs of the same size in their PC. The user wants to configure both SSDs to have a copy of all data so there will be no data loss if one drive fails. Which of the following is this an example of?
A. RAID 0
B. RAID 1
C. RAID 5
D. RAID 10
Answer: B (LEAVE A REPLY)
RAID 1 uses disk mirroring, where identical data is written to both drives, ensuring that if one drive fails, the other retains a complete copy of the data.
NEW QUESTION: 175
Some users are unable to access their workstations. An administrator runs ipconfigon one of the workstations and sees the following:
IPv4 address: 192.168.1.27
Subnet mask: 255.255.255.0

Default gateway: 192.168.1.1
The administrator runs the following command and receives this output:
C:\Users\User> ping gateway
Pinging gateway (192.168.1.1) with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Which of the following is the source of issue?
A. Web server
B. Router
C. DNS
D. DHCP
Answer: B (LEAVE A REPLY)
The workstation has a valid IPv4 address, subnet mask, and default gateway on the same subnet, but it cannot reach the default gateway because ping requests to 192.168.1.1 time out.
This indicates the gateway device (router) is unreachable or not responding, which would prevent access to network resources beyond the local host.

NEW QUESTION: 176
Which of the following describes a cloud computing system's ability to use changing levels of resources based on demand?
A. Availability
B. Multitenancy
C. Elasticity
D. Metered usage
Answer: C (LEAVE A REPLY)
Elasticity refers to a cloud system's ability to automatically scale resources up or down in response to changing workload demands, ensuring efficient use of resources as demand fluctuates.

NEW QUESTION: 177
Which of the following cloud models exclusively utilizes a local data center?
A. Private
B. Public
C. Hybrid
D. Community
Answer: A (LEAVE A REPLY)
A Private Cloud is operated solely for a single organization. It is hosted on-premises or in a dedicated off- site data center, giving the company full control over data, security, and compliance -- often hosted in the organization's own local data center.

NEW QUESTION: 178
A network administrator must ensure that a printer will still be assigned a specific IP address even if all addresses are depleted.
Which of the following network configuration concepts is this describing?
A. VLAN
B. Lease

C. Reservation
D. Exclusion
Answer: C (LEAVE A REPLY)
A DHCP reservation binds a specific MAC address to an IP address so the device always receives the same IP from the DHCP server. This ensures network devices like printers maintain consistent connectivity and availability even when the IP pool is low.

NEW QUESTION: 179
The computers and IP phones at an office experience degraded performance during the day. The issue does not occur before the start of business. Which of the following will resolve the issue?
A. Changing the switches to ones with higher capacity
B. Using VLANs to segregate data and voice traffic
C. Adding RAM to the PCs and additional VoIP lines
D. Updating the firmware on the switches
Answer: (SHOW ANSWER)
Degraded performance that occurs only during business hours strongly suggests network congestion caused by simultaneous data and voice traffic. Combining voice (VoIP) and data traffic on the same network without proper segmentation can lead to latency, jitter, and packet loss, especially during peak usage periods.
Implementing VLANs (Virtual Local Area Networks) allows administrators to logically separate voice and data traffic, enabling better traffic management and prioritization. VLANs also support Quality of Service (QoS) policies that ensure time-sensitive voice traffic is prioritized over standard data traffic, improving call quality and overall performance.

NEW QUESTION: 180
A user is having issues when charging a device with a Lightning cable. The cable is not recognized when it is plugged into the device. This issue is usually resolved by flipping the cable over. This issue does not occur with other devices of the same type.
Which of the following would most likely cause the issue?
A. The device needs to be restarted.
B. The battery may be swelling and needs inspection.
C. The cable is failing and needs to be replaced
D. The charging port is dirty or damaged
Answer: D (LEAVE A REPLY)
When a Lightning cable works only when flipped a certain way or doesn't function consistently, it is typically due to debris or damage in the charging port. Cleaning the port or inspecting it for wear resolves the issue.

NEW QUESTION: 181
A customer calls the help desk to report a problem connecting to a shared drive on a server. The technician determines that the user's server credentials have expired and reactivates them.
Which of the following should the technician do next?
A. Escalate the issue.
B. Document the findings.
C. Perform backups of all critical data.
D. Verify system functionality.
Answer: (SHOW ANSWER)
After resolving the immediate issue (reactivating server credentials), verifying system functionality ensures the solution works as intended and the user can now access the shared drive. This step is a part of the CompTIA troubleshooting methodology:
Identify the problem.

Establish a theory of probable cause.
Test the theory to determine the cause.
Establish a plan of action.
Implement the solution.
Verify full system functionality.
Document findings, actions, and outcomes.

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NEW QUESTION: 182
Which of the following is a key characteristic of cloud computing that ensures resources are dynamically distributed to meet varying workloads?
A. Hybrid deployment
B. Elasticity
C. Multitenancy
D. Metered utilization
Answer: B (LEAVE A REPLY)
Elasticity allows cloud resources to automatically scale up or down based on demand, ensuring workloads are efficiently handled without manual intervention.

NEW QUESTION: 183
Which of the following allows a physical server to host multiple virtual machines?
A. Cross-platform virtualization
B. Hypervisor
C. Sandbox
D. SaaS
Answer: (SHOW ANSWER)
A hypervisor is software or firmware that allows multiple operating systems (virtual machines) to run on a single physical host. It manages the allocation of resources and isolation of each VM.

NEW QUESTION: 184
Several storms cause mission-critical servers to go offline unexpectedly A server also goes offline suddenly due to haroNvare failure Upon assessment the company purchases new UPSs to condition power and allow the OSs to shut down gracefully in the event of a power failure However, the UPSs are delayed due to supply chain issues.
Which of the following can balance a cost-effective solution with uptime requirements?
A. Purchasing backup generators
B. Increasing input voltage
C. Installing redundant PSUs
D. Activating a hot site
Answer: (SHOW ANSWER)
Redundant PSUs provide fault tolerance by ensuring that if one power supply fails, another will take over seamlessly.

This is a cost-effective way to increase uptime while waiting for the UPSs to arrive.

NEW QUESTION: 185
A technician is enabling BitLocker. Which of the following is required to accomplish this task?
A. TPM
B. SAN
C. ARM
D. HSM
Answer: A (LEAVE A REPLY)
BitLocker requires a Trusted Platform Module to securely store encryption keys and verify system integrity during the boot process, enabling full-disk encryption without requiring user intervention at startup.

NEW QUESTION: 186
A company purchases a new printer for an international office. When a technician installs the printer, the display only shows a white screen. Which of the following should the technician do to troubleshoot the issue?
A. Check network port connectivity.
B. Verify the printer's power requirements.
C. Ensure the printer is in the correct organizational unit.
D. Upgrade the printer's firmware.
Answer: (SHOW ANSWER)
Different countries use different voltage standards and plug types. A white or blank screen on a newly installed printer often indicates incorrect power input. Verifying and matching the printer's power requirements to the local electrical standard ensures proper operation and prevents hardware damage.

NEW QUESTION: 187
Which of the following ports is commonly used for remote desktop connections?
A. 137
B. 445
C. 3389
D. 4443
Answer: (SHOW ANSWER)
Port 3389 is used by the Remote Desktop Protocol (RDP) for remote desktop connections in Windows environments. This port allows remote control and management of systems across the network.

NEW QUESTION: 188
A technician is troubleshooting an HDMI over Ethernet solution. The network link lights on the transmitter and receiver are both active. The TV that is connected to the receiver unit is getting audio, but video is intermittently flashing. Which of the following should the technician check next to find the source of the issue?
A. HDMI signal source
B. PoE power
C. Firmware on TV
D. Network cable termination
Answer: D (LEAVE A REPLY)
Intermittent video over an Ethernet extender is most often caused by a poor-quality or improperly terminated cable. Verifying proper terminations and cable integrity will resolve the flashing video issue.

NEW QUESTION: 189
Which of the following characteristics differentiates DDR4 RAM from DDR3 RAM?
A. Lower operating voltage
B. Higher latency
C. Increased DIMM width
D. Single-sided modules
Answer: (SHOW ANSWER)
DDR4 RAM operates at a lower voltage than DDR3, which reduces power consumption and heat generation while improving overall energy efficiency.

NEW QUESTION: 190
A technician receives a notification after a network outage that indicates the printer is not reachable. Which of the following printer settings should the technician implement to prevent this issue in the future?
A. Gateway
B. Static IP
C. APIPA
D. DHCP
Answer: B (LEAVE A REPLY)
Assigning a static IP to network printers ensures the printer's address does not change after outages or DHCP lease expirations, preventing connectivity issues.

NEW QUESTION: 191
A user reports the following error message to the help desk:
Drive failure imminent
The user presses F1 to continue past the error and work like normal. Which of the following should the help desk technician do to fix this issue?
A. Replace the hard disk.
B. Reformat the partition.
C. Rebuild the array.
D. Enter safe mode.
Answer: A (LEAVE A REPLY)
A "Drive failure imminent" message indicates that the hard drive's self-monitoring system has detected signs of impending hardware failure. Replacing the hard disk is necessary to prevent data loss and system failure.

NEW QUESTION: 192
A customer reports that a text-only document prints with unrecognizable characters. The print preview correctly displays the document.
Which of the following is the most likely cause of the issue?
A. Outdated firmware
B. Incorrect driver
C. Bad toner cartridge
D. Corrupted document file
Answer: B (LEAVE A REPLY)

NEW QUESTION: 193
Which of the following best describes the concept of a DHCP lease?

A. A definition of the scope of addresses to be assigned to a device on the network
B. A reservation of an IP configuration for a device on the network
C. A temporary assignment of an IP configuration to a device on the network
D. A translation of network names to IP addresses for a device on the network
Answer: (SHOW ANSWER)
A DHCP lease is a temporary assignment of an IP address and other network configuration parameters (such as DNS and gateway) to a device. The lease is renewed periodically to maintain the assignment.

NEW QUESTION: 194
A user's workstation occasionally turns off and smells burnt. The workstation is located in a manufacturing area where users are required to wear respirators.
Which of the following will most likely repair the workstation?
A. Inspecting and repairing the swollen motherboard capacitors
B. Replacing the intake air filter
C. Resetting the BIOS configuration to default
D. Switching the power outlets
Answer: B (LEAVE A REPLY)
In a manufacturing environment where respirators are required, airborne dust and contaminants are common. A clogged or dirty intake air filter can restrict airflow, causing overheating, shutdowns, and a burnt smell. Replacing the air filter restores proper cooling and prevents further overheating.

NEW QUESTION: 195
A user is unable to connect to network resources. A technician discovers that the user's device has an invalid static IP v dress. Which of the following should the technician configure on the user's device to request an IP address?
A. SSH
B. FTP
C. DHCP
D. DNS
Answer: (SHOW ANSWER)
DHCP (Dynamic Host Configuration Protocol) dynamically assigns IP addresses to devices on a network, resolving the issue of an invalid static IP address. Configuring the device to use DHCP allows it to request and receive a valid IP address automatically.

NEW QUESTION: 196
A company wants to have fast read speeds for its locally stored data. Which of the following configurations has the lowest cost to fulfill this requirement?
A. RAID 0
B. RAID 1
C. RAID 5
D. RAID 10
Answer: A (LEAVE A REPLY)
RAID 0 (striping) provides the fastest read (and write) speeds at the lowest cost, as all disk capacity is used for storage and performance. However, it offers no redundancy.

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NEW QUESTION: 197
Which of the following options offers the best connectivity performance with limited necessary accessories?
A. Hotspot
B. Lightning cable
C. NFC
D. Bluetooth
Answer: A (LEAVE A REPLY)
A hotspot provides full network connectivity by sharing a cellular data connection wirelessly, requiring minimal accessories beyond the device itself, and offers better performance than short- range technologies like Bluetooth or NFC.

NEW QUESTION: 198
A thief stole a company phone and successfully extracted confidential company information from the device. Which of the following should have been used to prevent the extraction?
A. GPS
B. EFS
C. eSIM
D. MDM
Answer: D (LEAVE A REPLY)
Mobile Device Management enforces security controls such as device encryption, remote wipe, and access policies, preventing unauthorized access and data extraction from a stolen device.

NEW QUESTION: 199
A technician must install additional RAM in a desktop computer. Which of the following types of RAM will the technician most likely use?
A. Static
B. ECC
C. DIMM
D. Registered
Answer: C (LEAVE A REPLY)
Desktop computers use DIMM modules for system memory, as they are the standard full-size memory form factor designed for desktop motherboards.

NEW QUESTION: 200
Which of the following DNS record types is used to direct email to a mail server?
A. CNAME
B. SRV
Answer: C (LEAVE A REPLY)
C. MX
An MX (Mail Exchange) record specifies the mail server responsible for receiving email for a domain.
D. SOA

NEW QUESTION: 201
A SOHO user cannot connect to the internet. Their configuration shows:

IP: 192.168.223.15
Mask: 255.255.255.0
Gateway: 192.168.233.1
DNS: 8.8.8.8, 4.2.2.1, 4.2.2.2
Baseline documentation shows valid subnet range: 192.168.200.0-192.168.232.255.
Which setting must be changed?
A. Tertiary DNS
B. Secondary DNS
C. Primary DNS
D. IP Address
E. Gateway
F. Subnet mask
Answer: (SHOW ANSWER)
The baseline documentation says the valid network range ends at 192.168.232.255, but the user's gateway is 192.168.233.1, which is outside the permitted network range. CompTIA A+ emphasizes that devices must have a gateway inside their own subnet.
Given a mask of 255.255.255.0, the user's subnet is 192.168.223.x, so the gateway must be in
192.168.223.x, not 192.168.233.x.
DNS settings are public and acceptable. The IP address and subnet mask are valid within the documented address space.
Therefore, the incorrect setting is the gateway, which prevents external routing. Correcting it resolves the connection issue, matching CompTIA's routing and TCP/IP troubleshooting procedures.

NEW QUESTION: 202
Which of the following will a company most likely use to control which websites a user can access?
A. Proxy server
B. Spam gateway
C. DHCP server
D. RADIUS server
Answer: (SHOW ANSWER)
A proxy server evaluates a user's request to access a website and, using URL filtering or content filtering rules, determines whether the site is allowed or blocked. It logs all web requests, allowing the company to monitor user activity and enforce browsing policies.

NEW QUESTION: 203
A customer experiences a power outage at their data center. After the outage, one server with three hard drives in RAID 5 does not come back online. When a technician connects to the server, they receive a message stating that Drive 3 has failed. Which of the following steps should the technician take next to minimize the risk of data loss?
A. Replace the defective drive and trigger an array rebuild.
B. Acknowledge the drive error and allow the system to start normally.
C. Upgrade the firmware on the drives.
D. Perform a full drive restore from the most recent backup.
Answer: A (LEAVE A REPLY)
RAID 5 provides fault tolerance for a single drive failure by using parity. Replacing the failed drive and initiating a rebuild restores redundancy and reconstructs the lost data using the remaining drives, minimizing the risk of data loss.

NEW QUESTION: 204
A user reports slow performance when saving documents locally on a computer. A technician reviews the logs and notices entries showing S.M.A.R.T. errors. Which of the following actions should the technician take next?
A. Reseat all SATA cables.
B. Replace the hard drive.
C. Defragment the hard drive.
D. Run Disk Cleanup.
E. Install a heat sink on the hard drive.
Answer: B (LEAVE A REPLY)
S.M.A.R.T. errors are a clear sign the drive is failing. Replacing the hard drive prevents data loss and restores reliable performance.

NEW QUESTION: 205
A technician needs to figure out why a laser printer is intermittently not feeding paper to print. The technician verifies the issue by running several copy-and-print tests. Which of the following should the technician do next?
A. Update the printer drivers.
B. Select the correct paper size.
C. Clean the pickup rollers.
D. Replace the toner cartridge.
Answer: C (LEAVE A REPLY)
When a laser printer intermittently fails to feed paper, the most common hardware cause is worn or dirty pickup rollers. These rollers grab the paper from the tray and move it into the printer. Over time, dust, paper debris, or worn rubber reduces their effectiveness, causing feeding issues.

NEW QUESTION: 206
An IT specialist is setting up a new shared network printer. The printer will receive a pre-allocated IP address via DHCP. Attempting to connect to the printer's web interface produces a Page not found message. The specialist runs diagnostics and finds that the IP is different than expected.
Which of the following should the specialist check next?
A. The MAC address used in the reservation
B. The printer driver on the print server
C. The subnet mask that the printer is using
D. The default gateway in the address pool
Answer: A (LEAVE A REPLY)
A DHCP reservation assigns a specific IP address based on the device's MAC address, so an incorrect MAC address in the reservation would cause the printer to receive a different IP than expected.

NEW QUESTION: 207
Which of the following port numbers are associated with email traffic? (Choose two.)
A. 23
B. 25
C. 67
D. 110
E. 137
F. 443

Answer: (SHOW ANSWER)
To answer this question, we need to identify the port numbers associated with email protocols used in client-server communication.
Port 25 (SMTP - Simple Mail Transfer Protocol):
This port is primarily used for sending emails between mail servers and from mail clients to mail servers (sending outbound mail).
SMTP is an essential protocol for email traffic.
Port 110 (POP3 - Post Office Protocol v3):
POP3 is used for retrieving emails from a mail server. It is commonly used for downloading email messages to a local client, after which the messages are deleted from the server. While not as commonly used today (due to IMAP being preferred), POP3 is still a recognized email protocol, and its association with port 110 makes it a valid answer.

NEW QUESTION: 208
A technician is manually configuring network settings on a user's computer to route network traffic to a newly deployed firewall. Which of the following should the technician change?
A. VPN
B. Gateway
C. Subnet mask
D. VLAN
Answer: B (LEAVE A REPLY)
Routing network traffic through a firewall requires changing the default gateway so the computer sends outbound traffic to the firewall as the next hop.

NEW QUESTION: 209
A user experiences intermittent Wi-Fi performance issues only in their office. Nearby RJ45 ports do not provide connectivity, but the user connects fine in other campus areas. AP coverage is weak in the user's office. What is the most likely cause?
A. APs are installed too far from the user's office
B. Brute-force attempts are causing drops
C. Ports near the office are disabled
D. The laptop has malware contacting unauthorized sites
Answer: A (LEAVE A REPLY)
Intermittent Wi-Fi issues specific to one area with admitted weak AP coverage directly point to insufficient signal strength from distant access points, causing drops and poor performance.
Wired RJ45 ports nearby not working suggests a separate cabling or port issue, but the Wi-Fi problem aligns with coverage gaps rather than brute-force attacks, malware, or disabled ports, which would not be location-specific or tied to weak signal.

NEW QUESTION: 210
Which of the following provides electricity to devices through network cables?
A. Edge router
B. PoE switch
C. Access point
D. Patch panel
Answer: B (LEAVE A REPLY)
A PoE (Power over Ethernet) switch transmits both data and electrical power over Ethernet cables to devices like wireless access points or VoIP phones. This is especially useful in areas where separate power sources are not available.

NEW QUESTION: 211

A company purchases a SOHO router for a small office. The new router does not have DHCP.
Which of the following address types should the company use so that all computers can communicate on the network?
A. Static
B. Public
C. Dynamic
D. IPv6
Answer: (SHOW ANSWER)
Without DHCP, the router cannot automatically assign IP addresses to devices. Each computer must be manually configured with an IP address, subnet mask, and default gateway, which requires the use of static addressing so all systems can communicate on the network.

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NEW QUESTION: 212
A user connects a company-issued laptop to a 4K TV but can only get 1080p resolution on the TV. The technician confirms that the laptop is capable of producing a 4K output. Which of the following is the most likely cause of the issue?
A. The TV firmware is out of date
B. The HDMI cable version is incorrect
C. The laptop firmware is not current
D. The CPU cannot keep up with the transcoding
Answer: (SHOW ANSWER)
An older HDMI cable version may not support 4K resolution. For 4K output, both the device and the cable must support HDMI 2.0 or higher.

NEW QUESTION: 213
Which of the following is used to register inputs on a touch-screen monitor?
A. Inverter
B. Digitizer
C. OLED
D. LCD
Answer: B (LEAVE A REPLY)
The digitizer is the touch-sensitive layer over the display that detects and converts finger or stylus contact into input coordinates for the system.

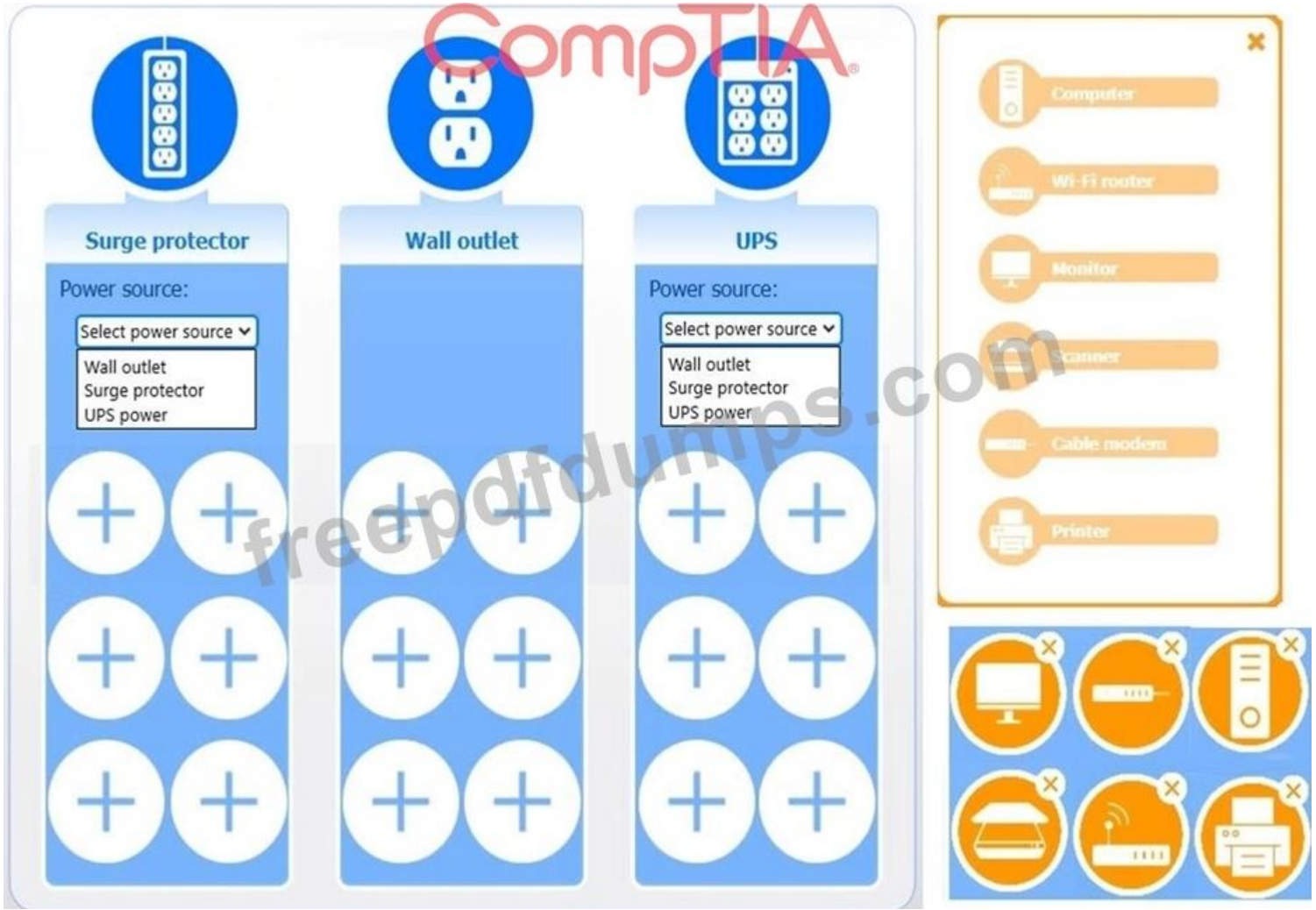
NEW QUESTION: 214
A company needs to develop a disaster recovery solution based on virtual machines. Which of the following service models is the most suitable?
A. Infrastructure as a Service
B. Security as a Service
C. Platform as a Service
D. Software as a Service

Answer: A (LEAVE A REPLY)
Infrastructure as a Service (IaaS) provides virtualized computing resources over the internet such as servers, storage, and networking. It allows a business to quickly spin up virtual machines and is ideal for disaster recovery and scalable IT infrastructure needs.

NEW QUESTION: 215
A customer reports a problem connecting to network resources. After asking open-ended questions, the technician determines the issue likely exists on the remote server.
Which of the following should the technician do next?
A. Document the findings.
B. Test the theory
C. Gather information
D. Establish a plan of action
Answer: (SHOW ANSWER)
After determining the issue is likely on the remote server, the technician should test the theory to confirm the root cause before proceeding.

NEW QUESTION: 216
A developer wants to protect critical data from hard drive failure. Their workstation has two hard drives. Which RAID level should they use?
A. RAID 0
B. RAID 1
C. RAID 5
D. RAID 10
Answer: B (LEAVE A REPLY)
RAID 1 (mirroring) is the only option that provides data protection from hard drive failure using a minimum of two hard drives. In a RAID 1 configuration, an exact copy of the data is simultaneously written to both disks. If one disk fails, the data is still accessible on the remaining drive, ensuring no data loss and continuous operation. This makes it ideal for critical data on a workstation with limited drive capacity.

NEW QUESTION: 217
SIMULATION 10
A customer recently experienced a power outage at a SOHO. The customer does not think the components are connected properly. A print job continued running for several minutes after the power failed, but the customer was not able to interact with the computer.
Once the UPS stopped beeping, all functioning devices also turned off.
In case of a future power failure, the customer wants to have the most time available to save cloud documents and shut down the computer without losing any data.
INSTRUCTIONS
Based on the customer's requirements, connect the customer's devices to the proper outlets.
Then, use the drop-down menus to select the power source for the surge protector and UPS.
This may require reselecting dropdowns or removing devices from their initial location.
Click on the + to add a device, and click the X to remove a device. Each device may only be used once.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



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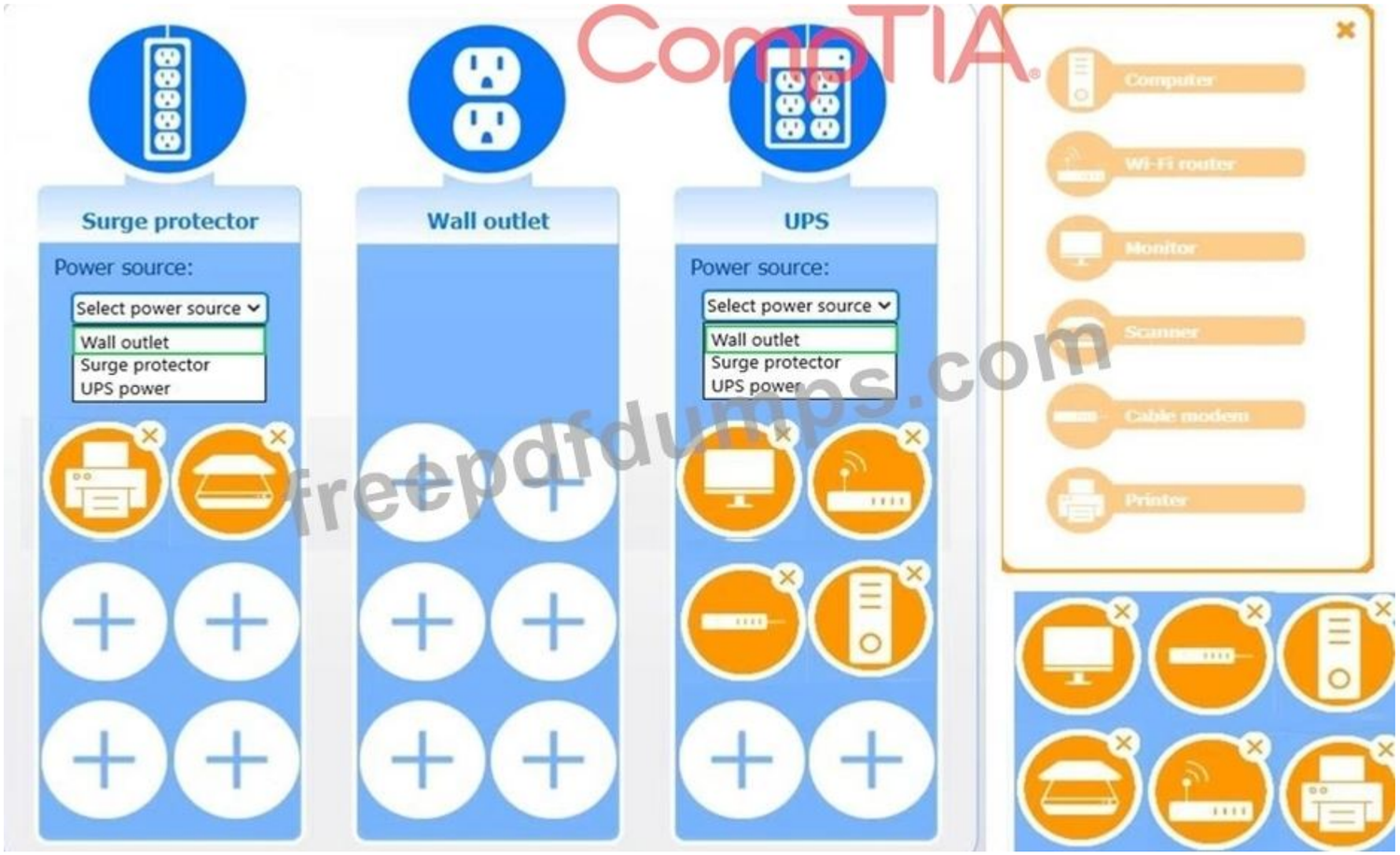

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NEW QUESTION: 218
A user turns on their laptop. The keyboard lights up. but the screen is black even after the user restarts the laptop. Which of the following should a technician do next to troubleshoot the issue?
A. Connect the laptop to an external monitor.
B. Remove the device bezel.
C. Plug in a laptop charger.
D. Replace the laptop.
Answer: A (LEAVE A REPLY)
Connecting to an external monitor helps determine whether the issue is with the laptop's display or with internal components such as the GPU or motherboard.

NEW QUESTION: 219
Which of the following port numbers is used for a file transfer?
A. 21
B. 53
C. 68
D. 389
Answer: A (LEAVE A REPLY)

Port 21 is the default TCP port for the File Transfer Protocol (FTP), which is used to establish control connections for file transfers between clients and servers.

NEW QUESTION: 220
Which of the following is a characteristic of Type 2 hypervisors?
A. Bare-metal installation
B. Need for an underlying OS
C. Local management only
D. Specific hardware requirements
Answer: B (LEAVE A REPLY)
Type 2 hypervisors run as applications atop a host operating system, relying on that OS for hardware drivers and resource management rather than interfacing directly with the hardware.

NEW QUESTION: 221
Which of the following types of RAM is typically used in servers?
A. SODIMM
B. Rambus
C. DDR3
D. ECC
Answer: (SHOW ANSWER)
ECC (Error-Correcting Code) RAM is commonly used in servers to provide error detection and correction, improving reliability in critical systems. It is designed to detect and correct single-bit errors, ensuring data integrity in environments where stability is paramount.

NEW QUESTION: 222
A company uses vital legacy software that does not run in the current OS version. Which of the following will best support the software while keeping the OS current?
A. Shared resources
B. System sandbox
C. Test development
D. Application visualization
Answer: (SHOW ANSWER)
Application virtualization allows legacy software to run in a virtualized environment while the operating system remains current. It isolates the application from the OS, ensuring compatibility without downgrading the OS.

NEW QUESTION: 223
Which of the following ports should a technician disable to increase the security of remote connectivity?
A. 22
B. 23
C. 25
D. 53
Answer: (SHOW ANSWER)
Port 23 is used by Telnet, an unencrypted remote connection protocol that poses significant security risks. Disabling Telnet and using secure alternatives like SSH (port 22) is best practice.

NEW QUESTION: 224

A user notices a clicking sound each time they turn on a workstation, and it takes a long time for the system to start up. Which of the following should the technician replace?
A. Fan
B. HDD
C. RAM
D. SSD
Answer: B (LEAVE A REPLY)
A repetitive clicking sound during startup combined with slow boot times is a classic indicator of a failing hard disk drive, often caused by mechanical read/write head issues that require the drive to be replaced.

NEW QUESTION: 225
A technician is troubleshooting a network issue. Users report that the connection keeps dropping and reconnecting every few seconds. The technician:
- Verifies the network configuration settings are correct on the
workstation
- Tests the network cable from the workstation to the switch and finds
no issues
- Uses a known-good workstation on the existing network cable and
replicates the reported issue
Which of the following should the technician do next?
A. Add new network hardware to reduce congestion
B. Assign a static IP to the impacted workstations.
C. Validate the environment for external interference.
D. Check the network logs for evidence of port flapping.
Answer: (SHOW ANSWER)
Since the NIC, cable, and workstation configuration have all been ruled out, and the problem persists even with a known-good PC on the same switch port, this behavior points to an unstable link at the switch itself (often called "port flapping"). Examining the switch's event or syslog will reveal if the port is constantly going up and down, confirming a hardware or configuration issue on the switch side.

NEW QUESTION: 226
A user cannot see the office multifunction printer in their laptop's print options. They have printed to the device in the past successfully. The user's laptop is connected to the guest wireless network. Other users on both wireless and wired computers can see and print to the printer.
Which of the following will fix the issue?
A. Power cycle the printer to refresh connectivity.
B. Reset the closest wireless AP.
C. Download the printer driver from the manufacturer's website.
D. Connect the laptop to the corporate Wi-Fi.
Answer: D (LEAVE A REPLY)
If the user is on a guest network and cannot access internal resources like printers, connecting to the corporate Wi-Fi will place the device on the correct subnet to access the printer.

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NEW QUESTION: 227

Which of the following is an email authentication method designed to detect email spoofing by attaching a digital signature to outgoing email?
A. SPF
B. DKIM
C. DNS pointer
D. MX records
Answer: B (LEAVE A REPLY)
DKIM (DomainKeys Identified Mail) is an email authentication method that attaches a digital signature to outgoing emails to verify the email's authenticity and detect email spoofing.

NEW QUESTION: 228
A systems administrator deploys BitLocker to all devices. However, one of the desktop PCs is not able to encrypt the boot drive.
Which of the following should the administrator check?
A. TPM
B. CPU
C. RAM
D. HDD
Answer: A (LEAVE A REPLY)
BitLocker Drive Encryption in Windows requires a Trusted Platform Module (TPM)to encrypt the boot drive securely. The TPM is a dedicated microcontroller designed to secure hardware through integrated cryptographic keys. It validates system integrity during boot and securely stores the encryption keys. If BitLocker cannot find a TPM or it is disabled in BIOS/UEFI, drive encryption cannot proceed. BitLocker can function without TPM using a USB startup key, but this compromises some security and is not recommended for managed enterprise environments.

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