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NEW QUESTION: 1

An architect is reviewing a physical storage design. The customer has specified that a new active-passive based storage array will be used to provide storage for the vSphere clusters.

Which configuration should for the architect recommended?

- A. VMW_SATP_LOCAL
- B. VMW_PSP_MRU
- C. VMW_SATP_DEFAULT_AA
- D. VMW_PSP_FIXED

Answer: B (LEAVE A REPLY)

The Most Recently Used (VMware) policy is enforced by VMW_PSP_MRU. It selects the first working path discovered at system boot time. The Most Recently Used policy does not use the preferred path setting. This policy is default for most active-passive storage devices.

<https://docs.vmware.com/en/VMware-vSphere/6.7/vsphere-esxi-vcenter-server-671-storage-guide.pdf>

NEW QUESTION: 2

Following a recent acquisition, an architect needs to merge IT assets into its current data center. The combined vSphere environment will need to run the newly acquired company's virtual machines.

Network integration work has already been completed and the current environment has capacity to host all virtual machines. The Operations team needs to identify which virtual machines belong to the acquired company and report on their usage.

How should the architect merge the company's assets and virtual machines?

- A. Leave the newly acquired company's assets in its current place
- B. Lift and shift the acquired assets into the data center
- C. Migrate the acquired company's virtual machines into the existing vSphere environment
- D. Migrate and apply vSphere tags to the acquired company's virtual machines

Answer: D (LEAVE A REPLY)

The Operations team needs to identify which virtual machines belong to the acquired company and report on their usage. We can use tags to report on usage.

NEW QUESTION: 3

An organization's data scientists are executing a plan to use machine learning (ML). They must have access to graphical processing unit (GPU) capabilities to execute their computational models when needed. The solutions architect needs to design a solution to ensure that GPUs can be shared by multiple virtual machines.

Which two solutions should the architect recommend to meet these requirements? (Choose two.)

- A. NVIDIA vGPU
- B. AMD MxGPU
- C. vSphere DirectPath I/O
- D. vSGA
- E. vSphere Bitfusion

Answer: A,E (LEAVE A REPLY)

<https://blogs.vmware.com/apps/2018/07/using-gpus-with-virtual-machines-on-vsphere-part-1-overview.html>

NEW QUESTION: 4

An architect is designing a new vSphere platform to meet a list of requirements from the security team.

Which two requirements would be classified as non-functional requirements? (Choose two.)

- A. Migration of virtual machines between hosts must be encrypted
- B. Critical events generated within the platform must be logged to an external Syslog service
- C. A common content library must be maintained across all data centers
- D. Data integrity must be ensured
- E. Log information must be verbose to support incident resolution

Answer: A,E (LEAVE A REPLY)

NEW QUESTION: 5

A customer is deploying a new cluster and wants to be able to patch and update two hosts in parallel. The cluster must be able to maintain N+1 resiliency across the remaining hosts while patching activities are performed. The current expected utilization of the platform requires a minimum of two hosts to support all of the virtual machines.

What is the minimum number of hosts the customer will require in the cluster in order to meet the required resiliency level?

- A. Five
- B. Six
- C. Four
- D. Seven

Answer: A (LEAVE A REPLY)

cluster must be able to maintain N+1

current expected utilization of the platform requires a minimum of two hosts to support all of the virtual machines.

So, we need 3 hosts to support N+1.

Customer wants to be able to patch and update two hosts in parallel.

So that means 5 hosts are required.

NEW QUESTION: 6

A customer requires the use of data encryption to ensure data is not accessible when a drive is removed from the primary storage platform. However, there is also a requirement to use deduplication and compression against all workloads in order to conserve space.

Which solution meets the customer requirements?

- A. Data-in-transit encryption
- B. OS-level encryption
- C. Encrypted backups
- D. Array-based encryption

Answer: (SHOW ANSWER)

Array-based encryption provides the same benefits as SEDs (self-encrypting drives), in that the drive shows no readable data once it is removed from the array. That means drives don't need to be physically destroyed when they are removed, which brings cost, security and environmental benefits

NEW QUESTION: 7

An architect is designing storage for a new vSphere environment to meet the following requirements:

Asynchronous replication is required between two sites.

The impact on the storage layer should not impact the performance of the compute layer.

Each application tier will require different replication attributes.

Virtual machine live migration across compute and storage must be supported.

Virtual machine aware back up will be leveraged.

Operational management overhead should be minimized.

Operational automation should be supported.

Which storage design recommendations would meet the requirements?

A. Two new Fibre Channel storage arrays will be deployed, one at either site.

Each application tier will be initially provisioned a new LUN. Data replication will be offloaded to the new arrays.

B. Two new vSphere clusters enabled with vSAN will be deployed, one at either site. vSAN will be used to provide policy-based management for each application tier.

vSphere Replication will be used to replicate the virtual machine data in an asynchronous configuration.

C. Two new iSCSI storage arrays will be deployed, one at either site.

Each application tier will be initially provisioned a new LUN. Data replication will be offloaded to the new arrays.

D. Two new storage arrays will be deployed, one at either site.

vSphere Volumes (vVOLS) will be used to provide policy-based management for each application tier. Data replication will be offloaded to the new arrays.

Answer: D (LEAVE A REPLY)

vVOLS accomplish each one of the requirements, but specially this one: "Virtual machine aware back up will be leveraged" Here references:

Replication -> <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.storage.doc/GUID-6346A936-5084-4F38-ACB5-B5EC70AB8269.html>

<https://dyertribe.co.uk/2020/05/04/vvol-replication-with-nimble/>

https://support.purestorage.com/Solutions/VMware_Platform_Guide/User_Guides_for_VMware_Solutions/Virtual_Volumes_User_Guide/vVols_Deep_Dive_%3A_Array_Based_Replication_with_vVols_Aware_backup -> <https://documentation.commvault.com/commvault/v11/article?p=14307.htm>

<https://www.nakivo.com/blog/application-aware-vm-backup/>

"The impact on the storage layer should not impact the performance of the compute layer." vSAN will have an important impact of compute layer.

"Operational management overhead should be minimized" >> FC Additional management overhead (e.g. switch zoning)

NEW QUESTION: 8

Which requirement would be classified as a functional requirement within the application design documentation?

- A. The application must be hosted with redundancy levels of N+1 or better.
- B. Penetration testing must be executed quarterly with a pass rate of 80% or higher.
- C. The application must be capable of handling 200 transactions per second.
- D. Administrators must monitor the network traffic of the desired systems.

Answer: D (LEAVE A REPLY)

Functional requirements describe what a system or solution must do. The requirements include the following categories:

- * Business rules: For example, the architecture must support both the primary and secondary data centers.
- * Administrative functions: For example, network and security administrators must monitor the network traffic of the desired systems.

NEW QUESTION: 9

During a requirements gathering workshop, the customer's Chief Information Security Office (CISO) provides the following requirements that are pertinent to the design of a new vSphere environment:

All operating system critical patches must be installed within 24 hours of release.

All virtual machine templates must be updated every three months in line with company policy.

Which requirement classification is being gathered for the design documentation?

- A. Security
- B. Manageability
- C. Recoverability
- D. Availability

Answer: B (LEAVE A REPLY)

<https://securityboulevard.com/2020/12/building-non-functional-requirements-framework-requirements-categories/>

NEW QUESTION: 10

During a requirements gathering workshop, the customer provides the following requirement:

A new vSphere platform must be designed securely and all interfaces must be protected against potential snooping.

How should this non-functional security requirement be documented?

- A. Interfaces must be audited.
- B. Encrypted channels must be used for all communications.
- C. Unauthorized access to interfaces must be reported within 15 minutes.
- D. Communications must be through Private VLANs (PVLAN).

Answer: D (LEAVE A REPLY)

PVLANS divide the broadcast domain into multiple broadcast sub-domains and allow further isolating different devices within the same VLAN. They provide layer 2 isolation between ports within the same broadcast domain. For example: "Your ESXi host uses several networks. Use appropriate security measures for each network, and isolate traffic for specific applications and functions. For example, ensure that VMware vSphere vMotion traffic does not travel over networks where virtual machines are located. Isolation prevents snooping. Having separate networks is also recommended for performance reasons." <https://docs.vmware.com/en/VMware-vSphere/7.0/vsphere-esxi-vcenter-server-70-security-guide.pdf>

NEW QUESTION: 11

An architect is designing a new vSphere environment with the following resources:

600 vCPU

5,760 GB RAM

Average resource usage is:

60 vCPU

1,152 GB RAM

The design must meet the following requirements:

The environment has the ability to burst by 25%.

Each host can schedule 36 vCPUs and has 512 GB RAM.

Management overhead is 20%.

What is the minimum number of hosts required to meet the design requirements?

A. Two

B. Five

C. Four

D. Three

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 12

An architect is designing a VMware solution for a customer based on the following information:

The solution must use investments in existing storage array that supports both block and file storage.

The solution must support the ability to migrate workloads between hosts within a cluster.

The solution must support resource management priorities.

The solution must support the ability to connect virtual machines directly to LUNs.

The solution should use existing IPv4 based network infrastructure.

There is no budget for additional physical hardware.

Which two design decisions could the architect make to meet these requirements? (Choose two.)

A. The ESXi hosts will leverage Fibre Channel (FC)

B. The ESXi hosts will leverage NFS 3

C. The ESXi hosts will leverage Fibre Channel over Ethernet (FCoE)

D. The ESXi hosts will leverage iSCSI

E. The ESXi hosts will leverage NFS 4.1

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

"The solution must support the ability to connect virtual machines directly to LUNs." - this rules out non-block storage. "The solution should use existing IPv4 based network infrastructure." - this rules out FC.

NEW QUESTION: 13

An architect makes the design decision to install ESXi on embedded and resilient 8 GB SD cards.

What is the impact of this design decision?

A. Host profiles must be used for this kind of installation

B. Scratch partition would need to be created on the external storage

C. The size of the SD cards is too small and the installation will fail

D. The vSphere Auto Deploy feature must be enabled on vCenter Server

Answer: B (LEAVE A REPLY)

<https://kb.vmware.com/s/article/2074026> You can store coredumps on the SD boot media, but refrain from configuring the scratch partition here as the logs are write intensive and can cause the SD card to fail faster resulting in re-installation of ESXi

<https://blogs.vmware.com/vsphere/2021/09/esxi-7-boot-media-consideration-vmware-technical-guidance.html> A configuration involving the usage of SD card or USB drives as boot media is a minimum of 8 GB SD card or USB drive + Locally attached persistent storage device for ESX-OSData partition may be used but is also not recommended. Recommended list of locally attached storage devices are listed below. In any case, if an SD or USB device is used for boot media (only SD/USB or SD/USB + local HDD/SSD disk), follow the below instructions to reduce the amount of IO sent to the SD or USB boot media: Enable the ToolsRamDisk option to offload VMTools install/upgrade IO requests on the RAM disk. Ensure the /scratch partition is configured on persistent storage like a local HDD/SSD or boot from the SAN device.

NEW QUESTION: 14

An architect is designing a new VMware solution for a customer that has a number of different resource profiles.

The following are the business requirements for the design:

The solution must support virtual machines with the following storage profiles:

- Write-intensive
- Backup
- Write-Once-Read-Many (WORM) archive

The solution must support migration of virtual machine disks between storage profiles.

The WORM archive data must be located at an isolated secure site.

The backup storage array must only be connected to a backup media server.

All data should be recoverable from backup.

Which design decision should the architect make to meet the business requirements?

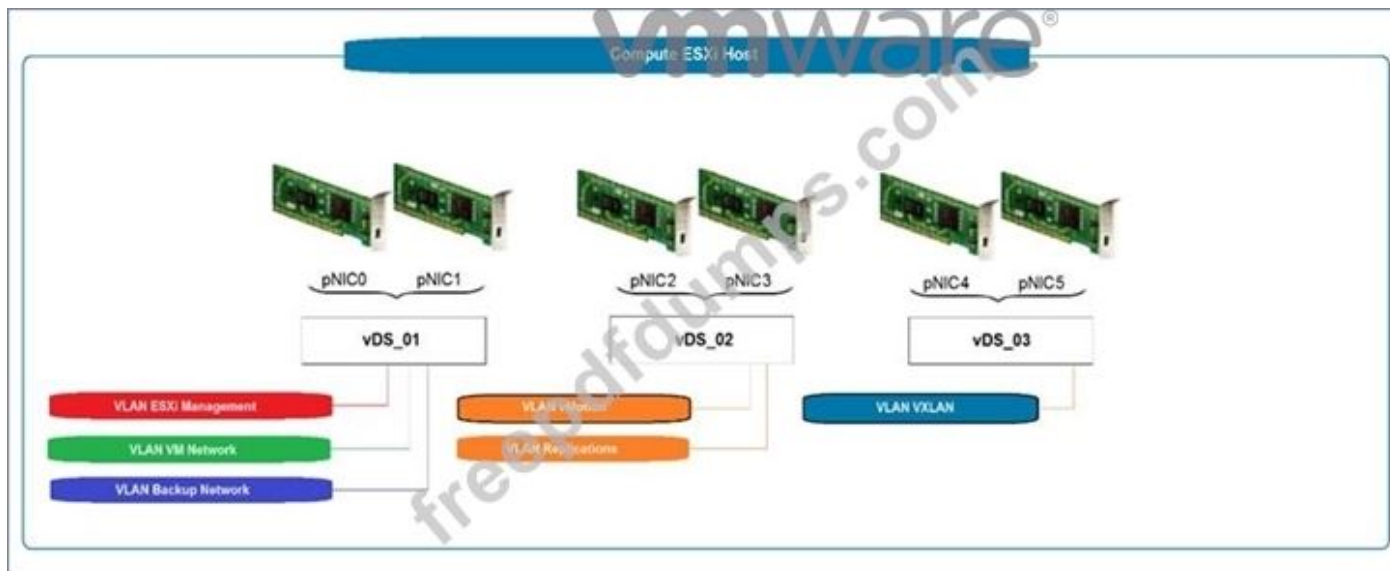
- A. The solution will leverage a single storage array for the WORM archive and write-intensive storage profiles
- B. The solution will leverage the same array for the backup and write-intensive storage profiles
- C. The solution will leverage a different array for each storage profile
- D. The solution will leverage a single storage array for all storage profiles

Answer: (SHOW ANSWER)

NEW QUESTION: 15

Refer to the exhibit.

During a requirements gathering workshop, the architect shares the following diagram:



What should the architect recommend for guaranteed throughput for each service?

- A. Use explicit failover order with pNIC0 as Active for ESXi Management and VM Network Use explicit failover order with pNIC1 as Active for backup network Use explicit failover order with pNIC2 as Active for vMotion Use explicit failover order with pNIC3 as Active for replication
- B. Use the Route Based on IP Hash for ESXi management and VM network Use the Route Based on IP Hash for backup network Use the Route Based on the Originating Virtual Port for vMotion Use failover with pNIC3 as Active for replication
- C. Create a link aggregation group (LAG) for vDS_01 Use the Route Based on Physical NIC Load for vMotion Use the Route Based on Physical NIC Load for replication
- D. Use the Route Based on IP Hash for ESXi management and VM network Use failover with pNIC1 as Active for backup network Create a link aggregation group (LAG) for vDS_02

Answer: (SHOW ANSWER)

" The problem is that in A VM network and management is together. In this scenario backup and VM network should be together. From the load point of view, it makes sense, as backup can saturate 100% of NIC but it is not service."

NEW QUESTION: 16

An architect is creating a network design for a new vSphere environment.

Based on customer requirements, the environment must support the following types of traffic:

Management

vMotion

vSAN

Fault Tolerance

Virtual machine traffic, which cannot be impacted by other types of traffic Which design recommendation can the architect make for a resilient infrastructure with vSphere network service tiering?

- A. Use different logical networks to ensure traffic is isolated with separate VLANs
- B. Use Network I/O Control and ensure appropriate share value is defined for different types of traffic giving priority to the virtual machines traffic
- C. Use two dedicated virtual switches with a single adapter each, dedicating one virtual switch for Management, vMotion, vSAN and Fault Tolerance traffic, and the second one for virtual machine traffic
- D. Use a NIC teaming policy based on the physical NIC load

Answer: B (LEAVE A REPLY)

<https://docs.vmware.com/en/VMware-vSphere/7.0/vsan-network-design-guide/GUID-6B00B437-53A3-4ACD-8CD7-AC9D0CE5BA8E.html>

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NEW QUESTION: 17

A new real-time financial service application is being developed by the engineering team at a financial firm and will be released as a public Software-as-a-Service (SaaS) offering. The solutions architect has designed and deployed a new vSphere environment and the supporting network infrastructure for hosting all public services. ESXi hosts are configured to use Precision Time Protocol (PTP) and a local stratum-1 network time server. Application provisioning and scaling will be managed by VMware vRealize Automation and can be run on Microsoft Windows or multiple distributions of Linux.

Which three recommendations should the architect include in the design to ensure that the service maintain timekeeping within an accuracy of one second? (Choose three.)

- A. Use Microsoft Windows Server as the guest operating system.
- B. Configure the chrony time-sync agent on each virtual machine guest operating system.
- C. Set the virtual hardware device to use Host System Time (NTP) for each virtual machine running the application.
- D. Add a precision clock virtual device to each virtual machine running the application.
- E. Use a Linux distribution as the guest operating system.
- F. Add a virtual watchdog timer (VWDT) device to each virtual machine running the application.

Answer: B,D,E (LEAVE A REPLY)

<https://blogs.vmware.com/apps/2021/04/lets-be-precise-enabling-and-configuring-precision-time-protocol-in-vsphere.html>

<https://core.vmware.com/blog/introducing-ptpvmw-new-linux-driver-achieve-high-time-synchronization-accuracy>

<https://blogs.vmware.com/apps/2020/09/ensuring-accurate-time-keeping-in-virtualized-active-directory-infrastructure.html>

NEW QUESTION: 18

During a transformation project kick-off meeting, an architect highlights specific areas on which to focus while developing the new conceptual design.

Which two of the listed statements are business requirements? (Choose two.)

- A. The project should use the existing storage devices within the data center
- B. Sites must support a network latency of less than 12 ms round-trip time (RTT)
- C. The solution must allow data replication between sites
- D. There is no budget specifically assigned for disaster recovery
- E. There must not be a single point of failure for the virtual infrastructure

Answer: (SHOW ANSWER)

<https://docs.vmware.com/en/VMware-Cloud-on-AWS/solutions/VMware-Cloud-on-AWS.919a954a9b6ca17cdc719ec42cda1401/GUID-BC8C9C882FAA9B4CDBD7B71F1267F8CD.html>

NEW QUESTION: 19

An architect is designing an environment for a retail customer. The design will use a single small vCenter Server Appliance and a cluster of eight ESXi hosts at a remote site. There is a single 10 GbE connected network at the remote site to support all management services. It is not possible to create additional management networks at the remote site. Virtual machine backups at the site will be dependent on the vCenter Server being available.

Which design decision should the architect make to maximize availability for backups?

- A. vCenter Server High Availability will be configured.
- B. The vCenter Server Appliance will be protected with vSphere Fault Tolerance.
- C. The cluster will be configured to use vSphere DRS in fully automated mode.
- D. The cluster will be configured with vSphere HA and set to restart virtual machines based on guest operating system heartbeat monitoring.

Answer: B (LEAVE A REPLY)

<https://kb.vmware.com/s/article/1024051>

NEW QUESTION: 20

As part of a new hybrid cloud initiative for a large financial company, the customer technical team is presenting an overview of the current state of the infrastructure and their vision for a new solution.

The project team captures notes during the presentation and adds them to the discovery documentation. Which of the listed statements is a design constraint?

- A. The applications are created in-house with in-guest recovery protection
- B. The maximum tolerable data loss is 10 minutes
- C. The two data center locations have a network latency of 8 ms round-trip time (RTT)
- D. The existing storage is out of maintenance

Answer: C (LEAVE A REPLY)

Networking Requirements for vSAN

Maximum of 1 ms RTT for standard (non-stretched) vSAN clusters between all hosts in the cluster
Maximum of 5 ms RTT between the two main sites for stretched clusters
Maximum of 200 ms RTT from a main site to the vSAN witness host

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vsan-planning.doc/GUID-AFF133BC-F4B6-4753-815F-20D3D752D898.html>

NEW QUESTION: 21

An architect is considering placement of virtual machines within an existing VMware software-defined data center (SDDC).

During the discovery phase, the following information is documented:

Cluster One

Six ESXi hosts

vSphere HA with host failures cluster tolerates = 1

Proactive HA is enabled and set to automated

Fully Automated vSphere DRS

Transparent Page Sharing (TPS) is enabled

Cluster Two

Eight ESXi hosts

vSphere HA with host failures cluster tolerates = 1

Proactive HA is disabled

Partially Automated vSphere DRS

Transparent Page Sharing (TPS) is disabled

Cluster Three

Three ESXi hosts

vSphere HA with admission control is disabled

Proactive HA is not supported

Transparent Page Sharing (TPS) is disabled

Virtual Machine Resource Profile 1

Memory sharing techniques should not be used

Virtual machines should be automatically restarted in the event of host failure if resources are available Automated initial virtual machine placement

Virtual Machine Resource Profile 2 Memory sharing techniques should not be used Virtual machines should be automatically restarted in the event of

host failure regardless of available resources Automated initial virtual machine placement Which two recommendations should the architect make for

placement of the virtual machines to meet resource profile requirements? (Choose two.)

A. All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster One.

B. All virtual machines matching Virtual Machine Resource Profile 1 should be placed on Cluster One.

C. All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster Two.

D. All virtual machines matching Virtual Machine Resource Profile 1 should be placed on Cluster Two.

E. All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster Three.

Answer: D,E (LEAVE A REPLY)

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.resmgmt.doc/GUID-FEAC3A43-C57E-49A2-8303-B06DBC9054C5.html>

NEW QUESTION: 22

A new vSphere platform is being created. The platform will host virtual machines that will run management services and line-of-business applications.

What should the architect consider when designing the number and type of clusters required?

A. Auditing requirements for the virtual machines

B. Predicted platform growth

C. The level of isolation required between virtual machine classifications

D. Maximum tolerable downtime

Answer: C (LEAVE A REPLY)

NEW QUESTION: 23

An architect is designing a new VMware software-defined data center (SDDC) that will consist of 100 branch sites connected to a single VMware vCenter

Server within the primary data center. To allow for the use of existing automation scripts, there is a requirement to replicate the names of the virtual

distributed port groups across all sites. The procurement team purchases licensing and there is no further budget allocated.

Which design decision should the architect make to meet this requirement?

A. A new vCenter Server will be deployed for each branch site

B. A new host and cluster folder will be created for each branch site

C. The automation script will be updated to reflect unique naming for each site

D. A new virtual data center will be created for each branch site

Answer: D (LEAVE A REPLY)

Hosts provisioned with vSphere Auto Deploy cache the image (stateless caching):

Set up and apply a host profile for stateless caching. You can cache the image on a local disk, a remote disk, or a USB drive. Continue provisioning this

host with vSphere Auto Deploy. If the vSphere Auto Deploy server becomes unavailable, for example because hundreds of hosts attempt to access it

simultaneously, the host boots from the cache. The host attempts to reach the vSphere Auto Deploy server after the boot operation to complete configuration.

Hosts provisioned with vSphere Auto Deploy become stateful hosts:

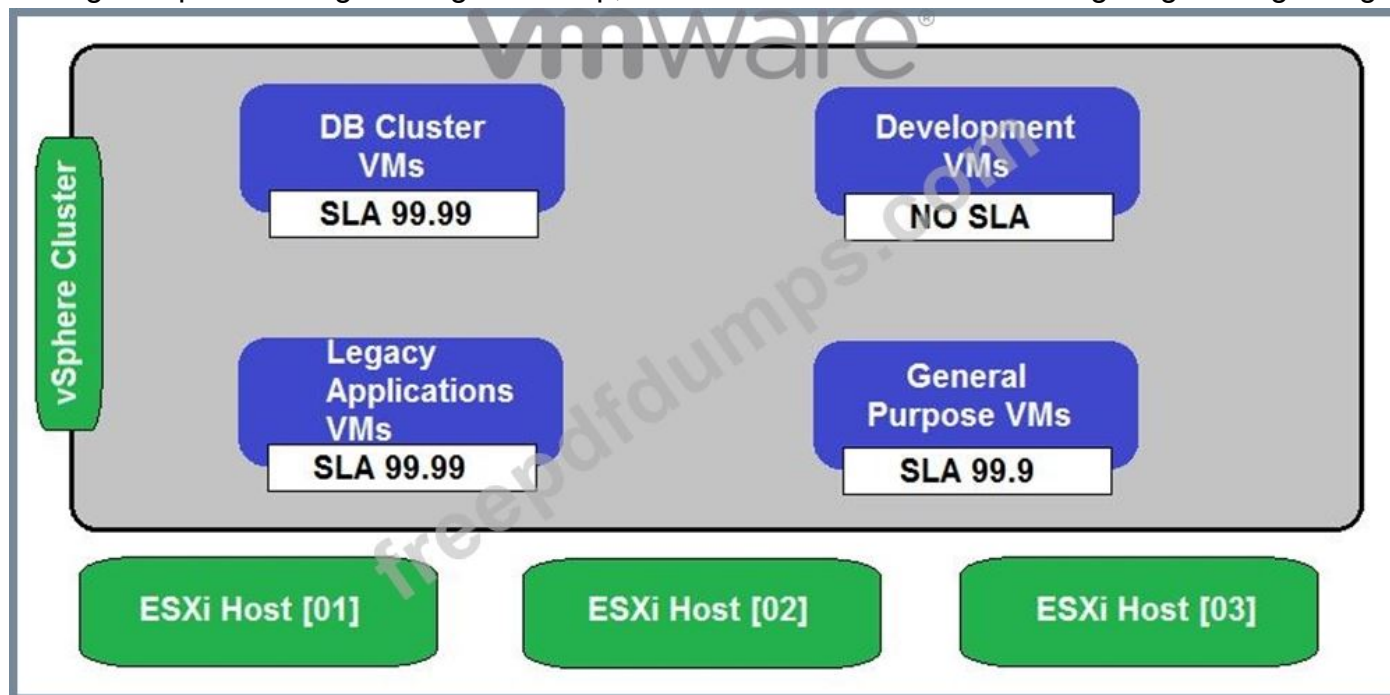
Set up and apply a host profile for stateful installs. When you provision a host with vSphere Auto Deploy, the image is installed on the local disk, a remote disk, or a USB drive. For subsequent boots, you boot from the disk. The host no longer uses vSphere Auto Deploy.

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.esxi.install.doc/GUID-C6FBA22C-048A-455F-9D45-58834445ACA5.html>

NEW QUESTION: 24

Refer to the exhibit.

During a requirements gathering workshop, the customer shares the following diagram regarding their availability service-level agreements (SLAs):



The customer wants database application level availability to always take precedence. What should the architect recommend to meet the customer's requirement?

- A. Enable vSphere HA and add a VM Override with VM Restart Priority set to Highest.
- B. Enable Fault Tolerance.
- C. Enable Sphere HA and maintain the default settings.
- D. Enable vSphere HA and add a VM Override with VM Restart Priority set to Lowest.

Answer: A (LEAVE A REPLY)

default is medium, lowest cannot address the requirement "take precedence" to "database application level".

NEW QUESTION: 25

The architect for a large enterprise is tasked with reviewing a proposed design created by a service partner. Which design elements are expected to be detailed within the physical design section of the documentation?

- A. A design diagram illustrating the configuration and specific attributes, such as IP addresses
- B. A list of requirements, constraints, and risks
- C. A solution architecture diagram with the components and data flow
- D. An entity relationship diagram describing upstream and downstream dependencies for specific service components

Answer: (SHOW ANSWER)

"The physical design is based on the logical design. The physical design includes specific hardware from specific vendors. This design also lists specific configurations for each of the components that are deployed"

NEW QUESTION: 26

An architect decides to separate virtual desktops and application servers into separate vSphere clusters to meet security and management requirements. What are two implications of this design decision? (Choose two.)

- A. The patching cycles will affect both clusters at the same time.
- B. There will be a reduction in performance.
- C. There will be an increase in management overhead.
- D. There will be additional licensing and cost requirements for both clusters.
- E. Identical hardware must be procured for all hosts.

Answer: B,C (LEAVE A REPLY)

NEW QUESTION: 27

An architect has 50 ESXi hosts to deploy and DHCP servers are not allowed on any network. Which automated host deployment method should the architect use?

- A. Stateless vSphere Auto Deploy
- B. Stateful vSphere Auto Deploy
- C. Scripted installation
- D. Interactive installation

Answer: C (LEAVE A REPLY)

"Running a script is an efficient way to deploy multiple ESXi hosts" with an unattended installation. <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.esxi.install.doc/GUID-00224A32-C5C5-4713-969A-C50FF4DED8F8.html>

NEW QUESTION: 28

An architect is reviewing a physical storage design. The customer has specified that storage DRS will be used for ease of operational management for capacity and performance.

Which recommendation should the architect include in the design?

- A. Create smaller datastores to balance space with Storage DRS
- B. Use a larger number of storage profiles (varied disk speeds and RAID levels) to improve performance
- C. Create larger datastores to balance space with Storage DRS
- D. Create more datastores within each Storage DRS cluster to balance space and performance

Answer: D (LEAVE A REPLY)

You could create 2x 64TB LUNs, 4x 32TB LUNs, 16x 8TB LUNs or 32x 4TB LUNs. When there are more datastores, SDRS will have more option to find right datastore to fit the virtual machine to placed or moved

NEW QUESTION: 29

Which two of the listed requirements would be classified as manageability non-functional requirements? (Choose two.)

- A. ESXi clusters must scale when compute resources are sustained above 70% for five business days
- B. vSphere Fault Tolerance must be supported to improve application uptime

- C. ESXi host updates must be installed within one week of release
- D. The vSphere environment must support administrator password rotation
- E. ESXi clusters must scale to 500 concurrent virtual machines

Answer: A,C (LEAVE A REPLY)

<https://enkonix.com/blog/functional-requirements-vs-non-functional/>

"Functional requirements explain how the system must work, while non functional requirements explain how the system should perform"

NEW QUESTION: 30

An architect is designing a solution for an environment with two types of resource profiles that must be virtualized. The first type consists of Tier 1 virtual machines that are disk I/O intensive, but do NOT require high CPU or memory. The second type consists of Tier 2 virtual machines that require a lower CPU and memory allocation and have minimal disk I/O.

Which design recommendation should the architect make for distributing the resource profiles?

- A. Separate the two resource profiles into two clusters. The Tier 1 cluster will have fast storage while the Tier 2 cluster will not.
- B. Run both resource profiles on the same cluster with the same host hardware platform.
- C. Separate the two resource profiles into two clusters. The Tier 2 cluster will have faster CPU and more memory while the Tier 1 cluster will have slower CPU and less memory but more disk space.
- D. Run both resource profiles on the same cluster with host hardware that has fast CPU, large amounts of memory, and the fastest storage platform.

Answer: (SHOW ANSWER)

Checked in the training manual, chapter 10 Infrastructure Manageability: When mention about tiers... always talks about DIFFERENT CLUSTERS.

Vmware suggest this in order to calculate spare hosts, cpu contention, disk performance, etc. In this case B and D should be disregarded, you should not mix Tier 1 and 2 in the same cluster.

NEW QUESTION: 31

A customer has a database cluster with 40/60 read/write ratio and a high IOPs requirement with no contention on an all-flash vSAN cluster.

Which two storage settings should be configured for best performance? (Choose two.)

- A. Deduplication and Compression enabled
- B. RAID 1
- C. IOPs limits enabled
- D. RAID 5/6
- E. Deduplication and Compression disabled

Answer: (SHOW ANSWER)

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NEW QUESTION: 32

Which design decision must be included in a design to allow for the deployment of a minimum supported configuration of vCenter High Availability (HA)?

- A. A new subnet will be provisioned for vCenter HA services
- B. A vSphere cluster will consist of more than three nodes
- C. The deployed vCenter Server will be Tiny
- D. The vCenter HA network will support a latency of less than 50 ms

Answer: ([SHOW ANSWER](#))

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.avail.doc/GUID-8FD87389-8CC9-4298-8B08-A1526FB44524.html>

NEW QUESTION: 33

A customer provides the following list of requirements for their vSphere platform:

REQ01 The solution should utilize dual network connections to eliminate single points of failure.

REQ02 The solution should allow logs to be retained for a period of 30 days.

REQ03 All user access to the platform should be recorded for audit purposes.

REQ04 The solution should allow the management of multiple ESXi hosts.

REQ05 The solution should allow users to view the remote console of virtual machines.

Which two of the listed requirements would be classified as non-functional requirements? (Choose two.)

- A. The solution should allow the management of multiple ESXi hosts
- B. The solution should utilize dual network connections to eliminate single points of failure
- C. The solution should allow logs to be retained for a period of 30 days
- D. The solution should allow users to view the remote console of virtual machines
- E. All user access to the platform should be recorded for audit purposes

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

NEW QUESTION: 34

During a requirements gathering workshop, the customer provides the following requirement (REQ) and constraints (CON):

REQ01: The customer is looking for a way to limit database virtual machine (VM) placement to save on CPU licensing costs.

CON01: There is a single cluster with no budget to scale.

CON02: All virtual machines must run on the consolidated cluster.

Which two design decisions should the architect make to meet the customer requirement? (Choose two.)

- A. The solution must use VM-VM anti-affinity rules
- B. The solution must use vSphere DRS in manual mode
- C. The solution must use a vRealize Orchestrator workflow for VM placement
- D. The solution must use VM-Host affinity rules
- E. The solution must use vSphere VM and host DRS groups

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

<https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.vsphere.msocs.doc/GUID-1F39CF51-CDA5-40B7-B5AA-8CBA37C65314.html>

NEW QUESTION: 35

A customer requests a review of its current vSphere platform design.

The following information is noted:

There are three different workload profiles for the virtual machines:

Tier-1 virtual machines operate resource-intensive applications and require dedicated allocations for CPU and RAM.

Tier-2 virtual machines operate internet-facing applications and require access to externally facing networks.

Tier-3 virtual machines operate platform management tools such as vCenter Server and have different lifecycle management requirements.

Tier-1, Tier-2 and Tier-3 virtual machines are all hosted on a single large vSphere cluster.

The Chief Information Security Officer (CISO) has raised concerns that hosting externally facing applications alongside management tools does not meet internal compliance standards.

The Operations team has raised concerns about Tier-1 virtual machines negatively impacting the performance of vCenter Server.

The Operations lead has stated that management changes have consistently been rejected by application teams.

As a result of the review, which recommendation should the architect make regarding the design of this platform?

A. Separate Tier-1, Tier-2 and Tier-3 virtual machines using dedicated distributed virtual switches (DVS)

B. Separate Tier-2 virtual machines onto a dedicated cluster

C. Separate Tier-1, Tier-2 and Tier-3 virtual machines onto dedicated clusters

D. Separate Tier-1, Tier-2 and Tier-3 virtual machines using resource pools and shares

Answer: ([SHOW ANSWER](#))

Separate Tier-1, Tier-2 and Tier-3 virtual machines onto dedicated clusters This will address the CISO's and Operations team concerns

NEW QUESTION: 36

An architect is designing the expansion of an existing vSphere 7 environment. The customer is requesting a design for a new cluster to support the anticipated future business growth. The requirements specified for the existing environment design must be considered when designing the new cluster.

The existing design has the following requirements:

REQ01 The environment has an availability target of 99.5% for all infrastructure.

REQ02 The recovery time objective (RTO) for Tier 1 virtual machines is one hour.

REQ03 Windows and Linux virtual machines must reside on separate clusters.

REQ04 Access to the management cluster within the environment must be controlled.

Which of the listed requirements would be classified as a functional requirement?

A. The environment has an availability target of 99.5% for all infrastructure

B. The recovery time objective (RTO) for Tier 1 virtual machines is one hour

C. Access to the management cluster within the environment must be controlled

D. Windows and Linux virtual machines must reside on separate clusters

Answer: ([SHOW ANSWER](#))

<https://reqtest.com/requirements-blog/functional-vs-non-functional-requirements/> provides explanation for functional requirements.

Functional Requirements

A requirement specifies a function that a system or component should perform. These may include:

Business Rules

Authentication

Audit Tracking

Certification Requirements

Reporting Requirements

Historical Data

Legal or Regulatory Requirements

<https://technicloud.com/category/vmware/>

NEW QUESTION: 37

An architect is tasked with expanding an existing VMware software-defined data center (SDDC) solution so that it can be used to deliver a virtual desktop infrastructure (VDI) service off-shore development activities.

The production environment is currently delivered across two geographically dispersed data centers. The two data centers are currently connected to each other through multiple diversely routed, high bandwidth and low latency links. The current operations management components are deployed to a dedicated management cluster that is configured with N+1 redundancy. The current VMware software-defined data center (SDDC) has a monthly availability target of 99.5%, which includes all management components.

The customer requires that the new solution scale to support the concurrent running of 500 persistent virtual desktops. The virtual desktops must not share the same virtual infrastructure as existing virtual machines, but can be managed using the same VMware operations management components. Any new VDI service management components must be installed into the management cluster. There is no requirement to back up the virtual desktops because all relevant user data is stored centrally. The VDI service is providing business critical services and must have an availability target of 99.9%. Given the information from the customer, which two assumptions would the architect include in the design? (Choose two.)

- A. The existing virtual infrastructure has sufficient capacity to host the new VDI workloads
- B. The existing management cluster has enough available capacity to host any VDI service management component
- C. The existing operations monitoring tools have sufficient capacity to monitor the new VDI services
- D. The VDI service has a higher service-level agreement (SLA) than the operations management SLA
- E. The management cluster has N+1 redundancy

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

NEW QUESTION: 38

What is a benefit of using a scale-out method for handling vSphere cluster growth?

- A. An increase in the recovery time objective (RTO) for the cluster
- B. Less potential impact to virtual machines during a single host failure
- C. Faster to reach the limit of virtual machines per host
- D. An overall reduction in the license costs for the cluster

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

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