3v0-624 Dumps

VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design Exam

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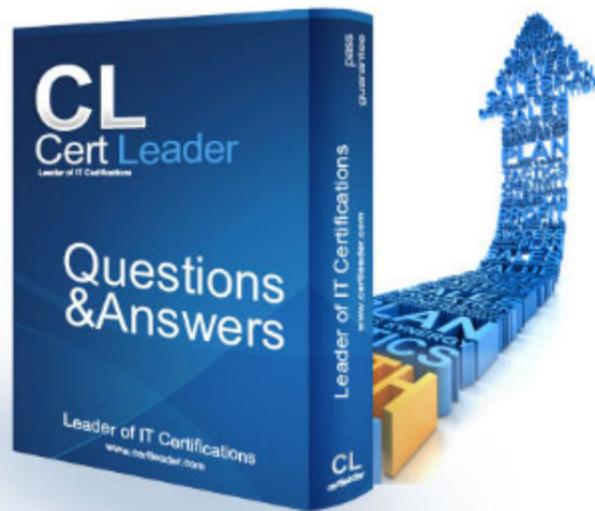
NEW QUESTION 1
A development team must provide layer 2 network isolation between virtual machines that are in the same VLAN. The solutions architect must provide additional security between the virtual machines on the same subnet.
How can this be done without consuming more VLANs?

A. Use Virtual Switch Tagging
B. Use Private VLANs.
C. Use Virtual Guest Tagging.
D. Use External Switch Tagging.

Answer: B

NEW QUESTION 2
A company would like to utilize its current infrastructure but wants to adopt virtualization to consolidate its environment. Currently, the infrastructure contains:
• server with 2 x 8 cores CPUs and 96G8 of memory
• backup LAN with a single physical switch
• production LAN
• sufficient datastore performance as determined by the storage team Match the existing infrastructure component to its appropriate concept.
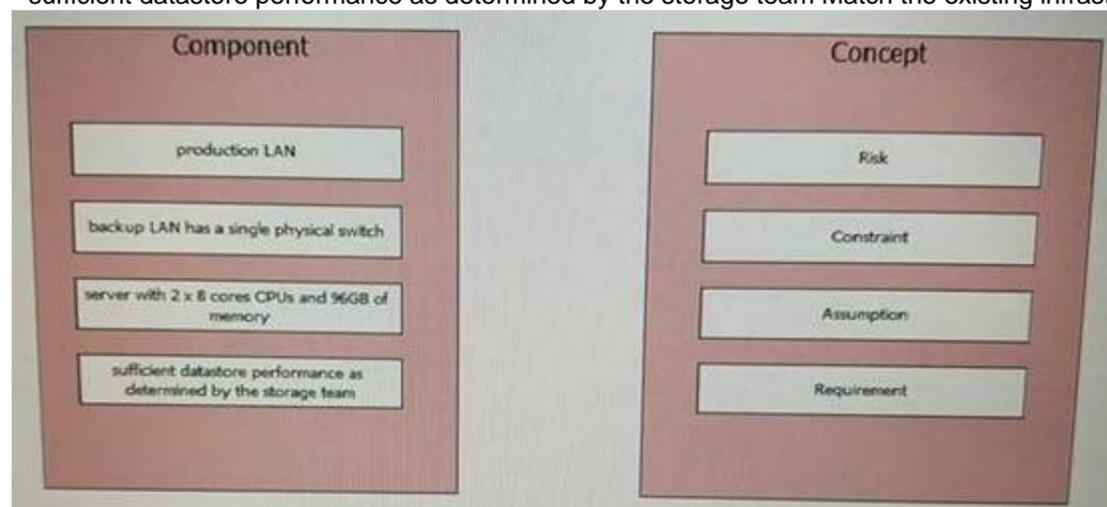
A. Mastered
B. Not Mastered

Answer: A

Explanation:
Risk = Backup LAN has a single physical Switch
Constraint = Server with 2x8 Core CPU with 96 GB
Assumption = Sufficient datastore performance as determined by storage team
Requirement = Production LAN

NEW QUESTION 3
You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization is evaluating various design options and their impact on the design. For each design option, determine the design characteristic that would be affected by utilizing the option.
Match each Design Option on the left to the Characteristic on the right by dragging the red button (O1-O5)
over the text of the appropriate Characteristic.
NOTE: Design Options can be mapped to more than one Characteristic or none at all.
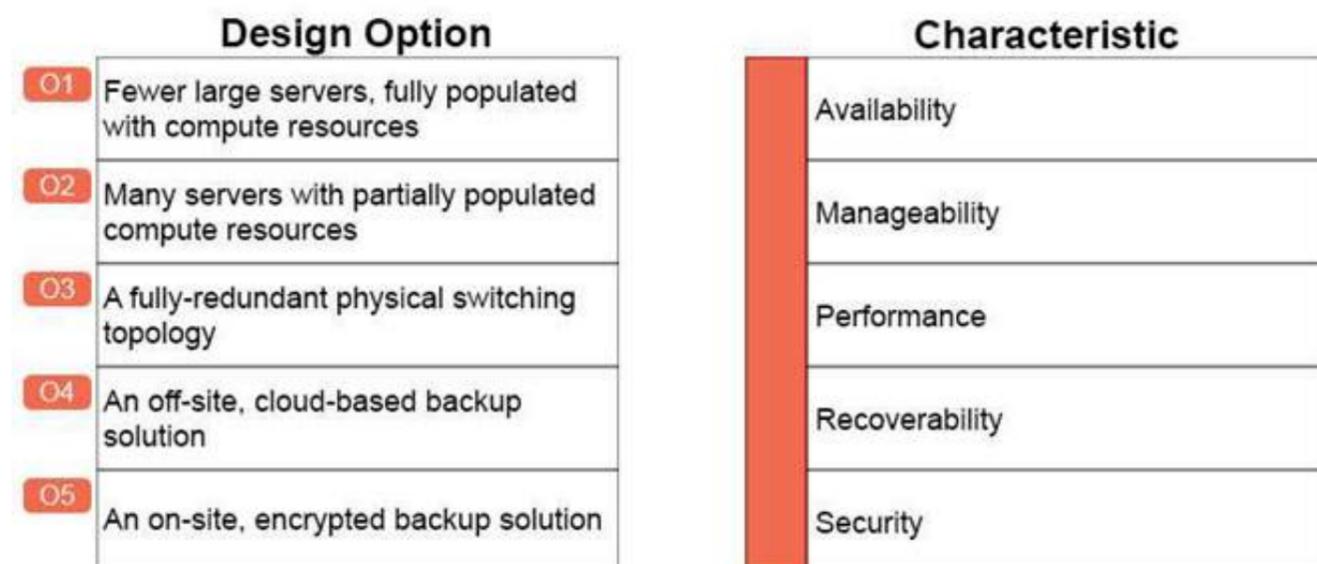
A. Mastered
B. Not Mastered

Answer: A

Explanation:
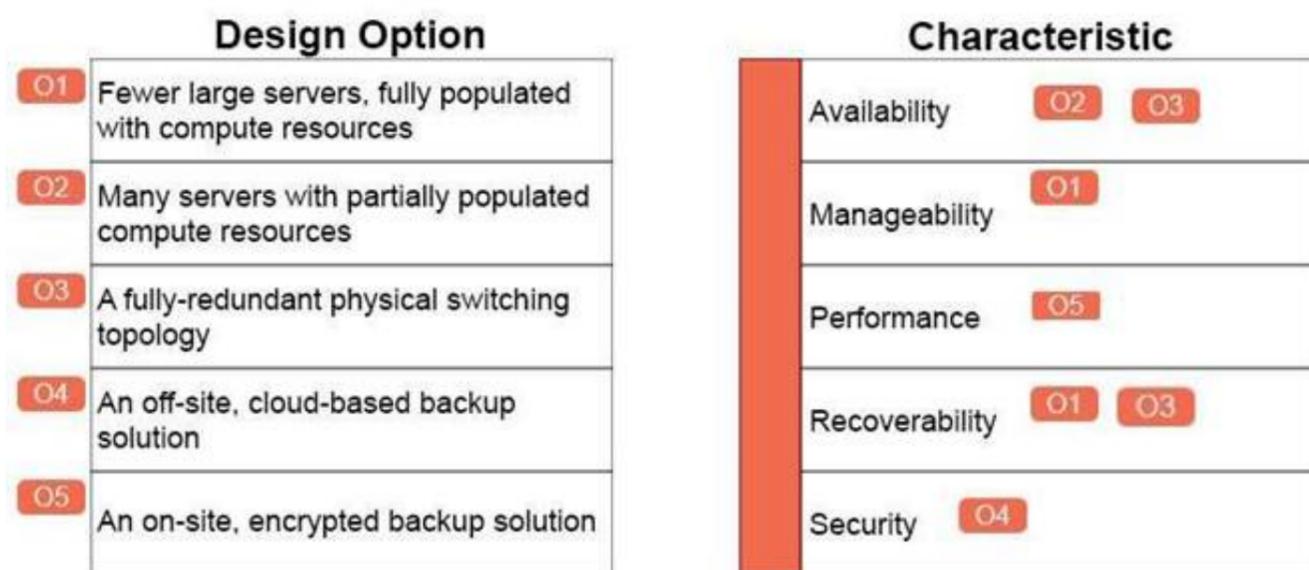
NEW QUESTION 4

A company has requested assistance with a new cross-site failover design to support business-critical applications.
• It has two sites when are very well-connected, and latency is less than 5ms round trip.
• The customer requires that its applications be restarted even in the event of a total site failure.
• The applications must be kept online even when migrated during maintenance.
• Storage arrays at either site support both synchronous and asynchronous replication. Which two options are accurate application requirements for this scenario? (Choose two.)

A. The design must ensure continuous application uptime even during a total site failure.
B. The design must prioritize application availability.
C. The design must ensure application recoverability at the second site.
D. The applications are latency-sensitive.

Answer: BC

NEW QUESTION 5

When implementing update policies for the vSphere environment, which would be the VMware-recommended way to update the vCenter Server Appliance (VCSA) when an underlying operating system (OS) patch is released?

A. Introduce a policy that requires a system administrator to check if a new appliance update (which might include an OS update) is available from the downloads section of MyVMware portal, and follow the VCSA documentation to apply the update.
B. Do nothing - the VCSA applies all OS updates automatically without any human interaction.
C. Introduce a policy that requires a system administrator to go online and check with the OS vendor to see if a new version is availabl
D. If it is, download it manually, log in to the VCSA with the root credentials, and proceed with the OS update.
E. Configure VMware Update Manager to download the OS update and apply it on a scheduled basis.

Answer: A

NEW QUESTION 6

The customer has two sites that must operate independently of each other in the event of a WAN failure. During normal operations, administrators from each site must be able to manage the other site through the vSphere Web Client.
Which vCenter Server Appliance (VCSA) and Platform Services Controller (PSC) diagram shows the VMware-recommended design that satisfies these requirements?
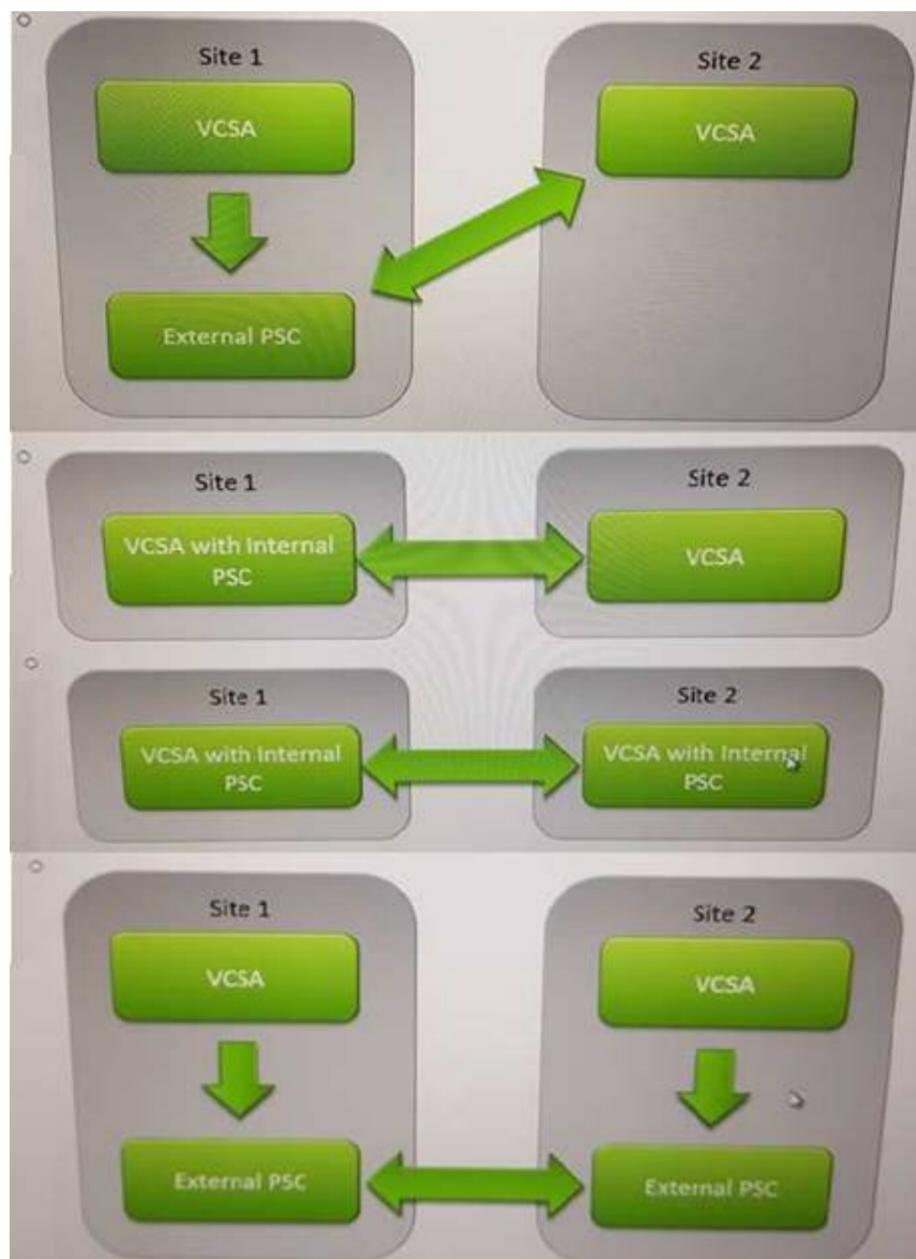
A. Exhibit A
B. Exhibit B
C. Exhibit C
D. Exhibit D

Answer: D

Explanation:
https://www.opvizor.com/understanding-the-impacts-of-mixed-version-vcenter-server-deployments/

NEW QUESTION 7
A customs has requested a vSphere 6.5 deployment design where ESXi hosts are provisioned with Auto Deploy. The customer requires that certificates can be automatically refreshed and renewed from the vSphere Web Client for ESXi hosts.
Which certificate policy should be configured for vCenter Server?

A. Thumbprint Mode
B. VMware Certificate Authority
C. Custom Certificate Authority
D. Subordinate Certificate Authority

Answer: B

NEW QUESTION 8
A company is conducting a technology refresh and has requested assistance with a vSphere 6.5 design.
• The company has a corporate headquarters and two data centers strategically placed around the country, which provide the bulk of the computer power and storage for their customer-facing stores.
• The company requires each of its stores to be able to operate independently if connectivity is ever lost.
• Presently, all stores are configured differently and must be standardized as part of the technology refresh
• To support store operations, only a dozen applications are required.
• Any downtime during store hours could result in significant losses.
• Any proposed design must minimize cost.
What is a VMware-recommended option for this scenario?

A. VMware vSAN cluster with a minimum of three hosts
B. VMware vSphere cluster with low-cost iSCSI shared storage
C. VMware vSAN Stretched Cluster with nearest regional data center
D. VMware vSAN Remote Office Branch Office (ROBO) with two hosts

Answer: D

NEW QUESTION 9
A solution architect has been tasked with designing a new environment that meets the needs of a growing company, and has obtained this information:
• The current capacity will be exhausted in 180 days, and the new infrastructure must be deployed and in production prior to that.
• The new servers have a 90-day delivery time.
• A data center for disaster recovery has been selected, and it is 20 miles away and connected by MPLS.
• The security team will continue to utilize its current investments and VM Encryption for the new environment.
• The backup team currently uses Data Domain, and reports show an 8:1 compression and deduplication ratio for backups.
Based on the information obtained, which two statements are risks for the new design? (Choose two.)

A. MPLS will be used to connect the two data centers.
B. The Change Advisory Board will approve all changes.
C. Current back up space will not be sufficient if using VM Encryption.
D. The current firewalls will support the additional workloads.

Answer: AB

NEW QUESTION 10
A company is outsourcing its support operations to an external service provider and plans to complete the project by April 1.
• The external Support engineers must have the ability to power cycle, create, and edit virtual machines settings within their assigned vSphere site.
• The company maintains three vCenter servers in Enhanced Linked Mode that are run as virtual machines in the supported infrastructure.
• The vCenter servers will be supposed by the external service provider.
• Each vCenter server is connected to its own local Platform Services Controller and MSSQL database server.
• The company will provide escalation support and physical access on a per request basis.
• 99.9% ESXi host uptime is required in this environment, but no SLA has been specified for the hosted applications.
Drag each statement to its appropriate concept.
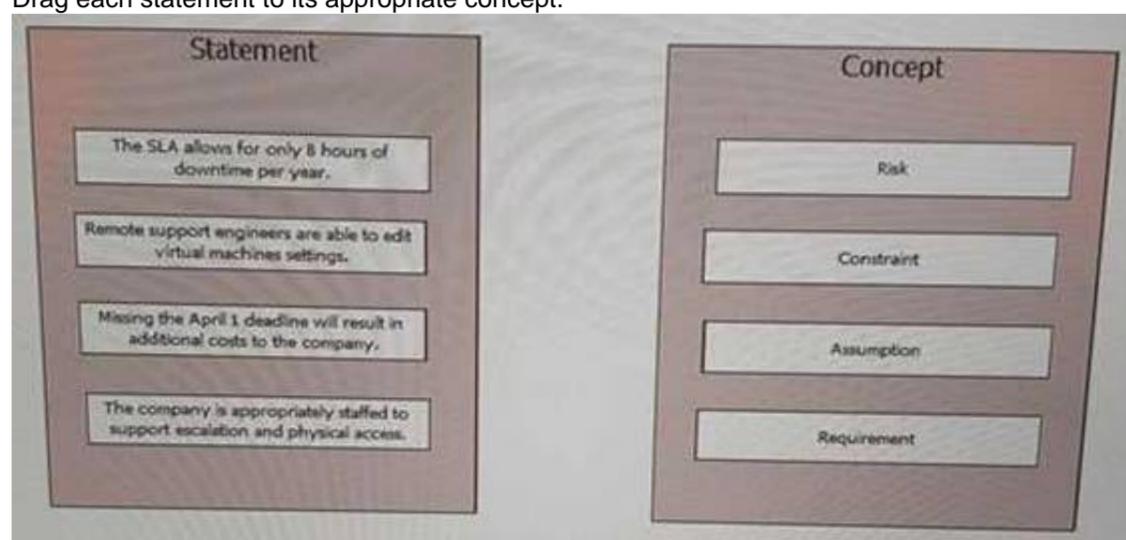
A. Mastered
B. Not Mastered

Answer: A

Explanation:
Risk --> Missing the April 1 deadline...
Constraint --> Remote support...
Assumption --> The company is...
Requirement --> The SLA allows for..

NEW QUESTION 10
A virtualization administrator has been tasked with migrating several business applications from physical to virtual. The administrator must also migrate the virtual machines from VMware Workstation to vSphere 6.5, using vCenter Converter Standalone 6.1.
In this scenario, when two source types are supported? (Choose two.)

A. powered-off Windows Server 2008 physical machine
B. powered-on Windows Server 2000 Workstation virtual machine
C. powered-off Windows Server 2008 Workstation virtual machine
D. powered-on Windows Server 2008 physical machine

Answer: CD

NEW QUESTION 11
A company is a leading provider for an online travel booking system with over a $1,000,000 turnover each day. The company warns to leverage VMware cloud solutions to consolidate, scale, and ensure high
availability for all of its data centers.
Match each business requirement to its appropriate design concept.
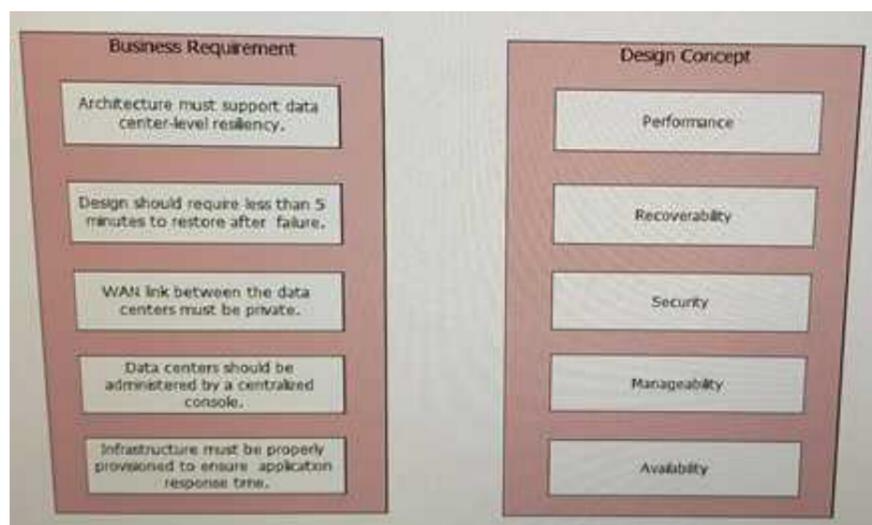
A. Mastered
B. Not Mastered

Answer: A

Explanation:
Performance --> Infrastructure must be properly provisioned...Recoverability --> Design should require less than 5' to restore...Security --> WAN links between..Manageability --> DCs should be administered by a centralized consoleAvailability --> Architecture must support DC level resiliency

NEW QUESTION 13
A leading steel manufacturer relies on SAP for purchase, sales, add invoice processing.
• It is planning to virtualize its severs to reduce CAPEX and OPEX.
• However, its CIO is concerned about the availability, performance, manageability, recoverability, and security for the SAP database and ERP instance.
Match the business requirement with the appropriate design concept.
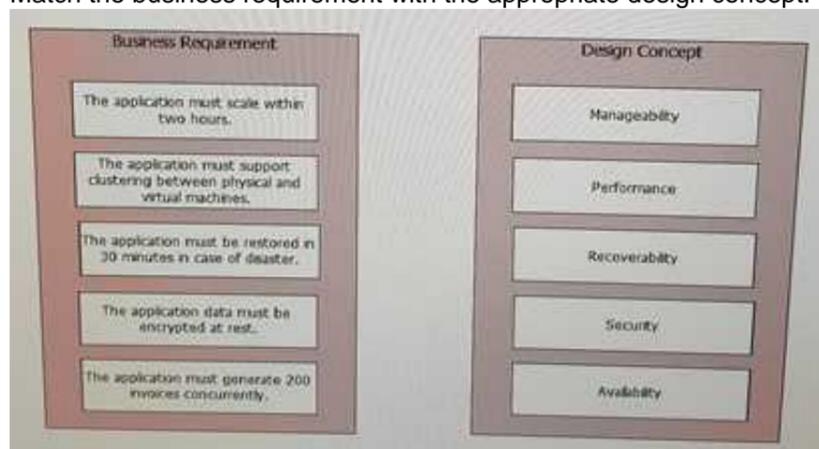
A. Mastered
B. Not Mastered

Answer: A

Explanation:
Manageability --> The App must support clustering...Performance --> The App must generate 200...Recoverability --> The App must be restored in 30...Security --> The App data must be encrypted...Availability --> The App must scale within 2h..

NEW QUESTION 14
You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has identified a number of challenges that occur within their current infrastructure that they would like addressed in the design. For each challenge, determine the vSphere technologies that could be used in the design. Match each Challenge on the left by dragging the red Challenge buttons (C1-C4) over the appropriate Technology.

Challenge

C1 — We can test often enough to determine if a solution is plausible.

C2 — Managing the recovery and relocation of our current servers is a manual process.

C3 — We continue to lose money due to frequent application server crashes.

C4 — Server maintenance causes excessive application downtime.

Technology

- vSphere HA
- vSphere Fault Tolerance
- vSphere Data Protection
- Virtual Machine Snapshots
- VMware vSphere vMotoin
- Distributed Resource Scheduler
- Virtual Machine Cloning
- vSphere Update Manager

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Challenge

C1 — We can test often enough to determine if a solution is plausible.

C2 — Managing the recovery and relocation of our current servers is a manual process.

C3 — We continue to lose money due to frequent application server crashes.

C4 — Server maintenance causes excessive application downtime.

Technology

- vSphere HA [C4]
- vSphere Fault Tolerance [C3]
- vSphere Data Protection
- Virtual Machine Snapshots [C2]
- VMware vSphere vMotoin [C4]
- Distributed Resource Scheduler
- Virtual Machine Cloning [C1]
- vSphere Update Manager [C4]

NEW QUESTION 15
A customer is using blade servers with only one HBA.
Which two design concepts apply to this scenario? (Choose two.)

A. Assumption
B. Risk
C. Constraint
D. Requirement

Answer: BC

NEW QUESTION 20
The hardware operations team is planning to purchase new ESXi hosts for the upcoming budget year and is requesting recommendations on the type of servers to

purchase for a web application. The web application consists of hundreds of small virtual machines (1 vCPU and 8GB of RAM) that are members of a software cluster.
The solution should have these abilities:
• recover from ESXi host hardware failures
• zero downtime for a limited number of critical virtual machines (VMs)
• migrate running VMs between ESXi hosts without interruption to the operating system
• perform these functions using VMware ESXi servers, vCenter Server, and high-speed network interfaces What are the three functional requirements and their associated VMware technologies? (Choose three.)

A. automatic restarts of failed VMs (vSphere HA)
B. high speed network interfaces (vSphere Distributed Switches)
C. ability to migrate running VMs (vSphere vMotion)
D. fault tolerance for limited number of critical VMs (vSphere FT)
E. VMware ESXi Servers (vSphere Auto Deploy)

Answer: ACD

NEW QUESTION 21
An organization is trying to determine whether it should use the Windows version of the vCenterServer or use the vCenter Server Appliance (VCSA). The organization will be using an externalOracle database, and it will manage about 30 ESXi hosts and about 200 virtual machines on 1
vCenter Server, but it would also like to see another group's vCenter Server from the samevSphere client window. Which type of vCenter Server should it use, and why?

A. The vCenter Server Appliance (VCSA) because it can be used with Oracle
B. The VCSA because it can support 30 ESXi hosts
C. The Windows version because it can support Oracle
D. The Windows version because it can support Linked mode

Answer: A

NEW QUESTION 24
A customer wants to make its data available with a RPO of 10 minutes. Replication to the second data center will be done using the network.
Which type of storage configuration should be used?

A. NFS datastore on ESXi 6.0 with vSphere replication appliance 6.0
B. VMFS datastore on ESXi 6.0 with vSphere replication appliance 6.5
C. vSAN datastore on ESXi 6.0 with vSphere replication appliance 6.5
D. VMFS datastore on ESXi 6.0 with vSphere replication appliance 6.0

Answer: B

NEW QUESTION 27
You have been tasked with creating a vSphere 6.5 design for an organization. The organization is looking to implement a Virtual SAN into their environment. You have been tasked with determining whether a given Virtual SAN logical design decision meets the technical requirements of their infrastructure.
For each Design Decision on the left drag the red Decision buttons (D1-D8) on the right and place it on the proper Technical Requirement.
NOTE: Not all Design Decisions will be used.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 29

A company has requested a new vSphere 6.5 design that will allow it to finally break the 80% virtualization barrier by virtualizing its resource-intensive application.

• The application is highly available by design and includes application-aware clustering software capable of operating as a fully distributed system.

• The company's Application Version 2.0 consists of 386 small applications and middleware with non-persistent storage and 24 database virtual machines at each data center.

• When coupled with a proper load balancing solution, this application can continue operating even with the loss of an entire data center, but the small applications and middleware tiers within a data center must exist within the same broadcast domain.

• The database tier is tightly controlled with a firewall policy that only allows middleware tier access, and is replicated to other sites using a dedicated circuit.

Which two application requirements apply to this scenario? (Choose two.)

A. The application will require the configuration of an IGMP stub and helper.
B. Shared storage is required by the application clustering software.
C. The application will require one large subnet.
D. The application will require a method of balancing and recovering sessions between sites.

Answer: BC

NEW QUESTION 34

When planning on resource use for the servers, you should plan on leaving resources availablefor all the following except .

A. patching
B. maintenance mode
C. future growth
D. log file space

Answer: D

NEW QUESTION 36

Match the business statement to its appropriate concept.
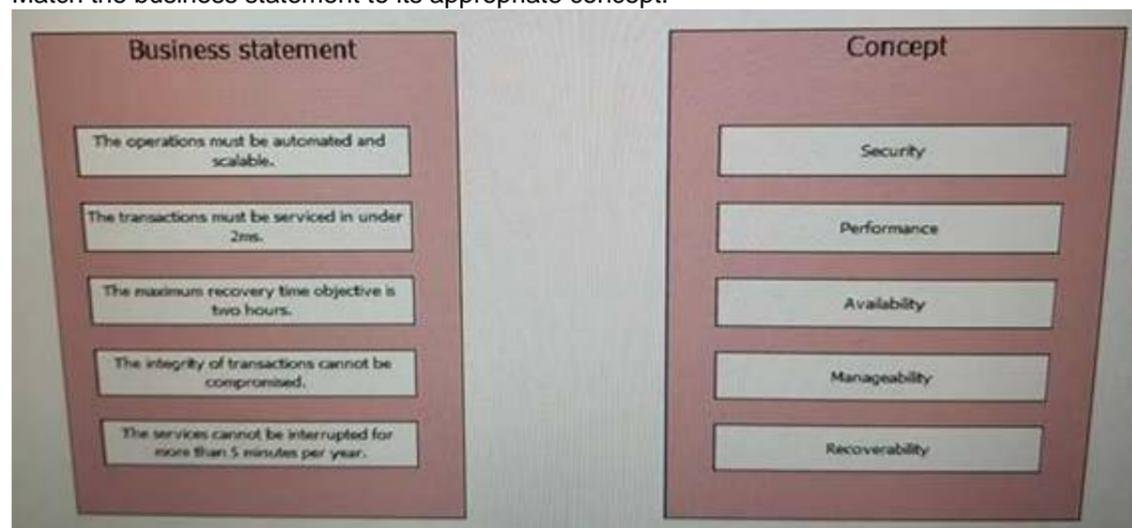
A. Mastered
B. Not Mastered

Answer: A

Explanation:
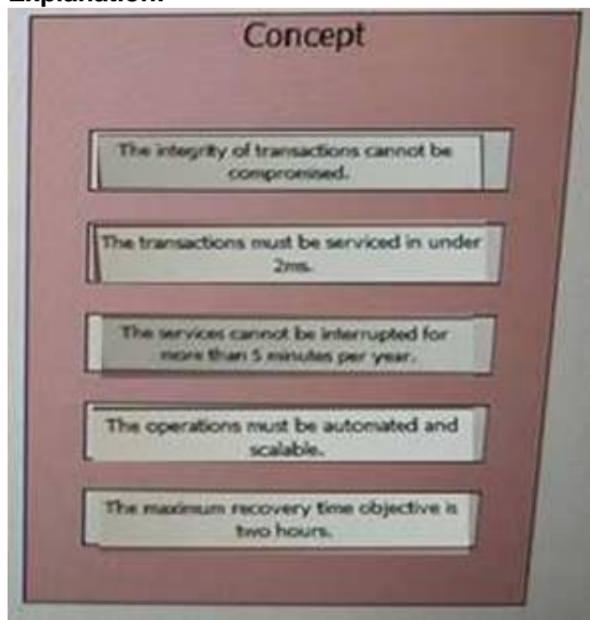
NEW QUESTION 37
View the Exhibit.
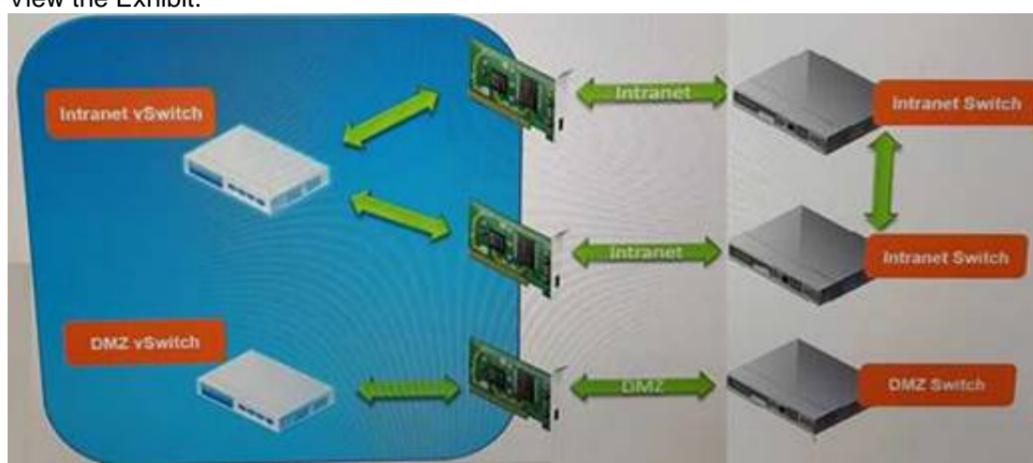
Referring to the Exhibit, identify the two single points of failure in this design. (Choose two.)

A. Intranet Switch
B. Intranet Uplink
C. Intranet vSwitch
D. DMZ Switch
E. DMZ Uplink
F. DMZ vSwitch

Answer: EF

NEW QUESTION 40
A customer has requested a high availability option for its data center in the event of power failure and the loss of connectivity to a virtual machine.
Which three vSphere features support fault tolerance? (Choose three.)

A. HA
B. Virtual volume datastore
C. vMotion
D. Storage-based policy management
E. DRS
F. Virtual machine snapshots

Answer: ACE

NEW QUESTION 45
A host has three dual-port network cards. What is the maximum number of vSwitches that can beintegrated with the physical network, assuming that network redundancy is not a requirement?

A. 3
B. 6
C. 256
D. 512

Answer: B

NEW QUESTION 48
A solution architect has been tasked with designing a new environment that meets the needs of a growing company, and has obtained this information:
• The current capacity will be exhausted in 180 days, and the new infrastructure must be deployed and in production prior to that.
• The new severs have a 90-day delivery time.
• A data center for disaster recovery has been selected, and it is 20 miles way and connected by MPLS.
• The security team will continue to utilize its current investments and VM Encryption for the new environment.

• The backup team currently uses Data Domain, and reports show an 8.1 compression and deduplication ratio for backups.
Based on the information obtained, which two statements are assumptions for the new design? (Choose two.)

A. MPLS will be used to connect the two data centers.
B. There is 180 days left of current capacity.
C. Data Domain will get an 8:1 compression and deduplication ratio with the new workloads.
D. A disaster will NOT affect both data centers.

Answer: BD

NEW QUESTION 51
You have been tasked with creating a vSphere 6.5 design for an organization. The customer wants to ensure isolation in the network but does not know when to incorporate physical networks, VLANs and PVLANs.
Evaluate the design requirement and determine the isolation method to satisfy the design.
Match each Design Requirement on the left by dragging the red Requirement buttons (R1-R5) over the text of the appropriate Isolation Method.
NOTE: Multiple Design Requirements may fit each Isolation Method.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 53
You have been provided with a list of requirements for a vSphere Design. For each requirement, categorize the requirement as a component of the WRT, RTO, RPO, MTD, and Recoverbility.
Drag a requirement button (R1-R8) over to the green space provided beside the corrisponding Design Phase.
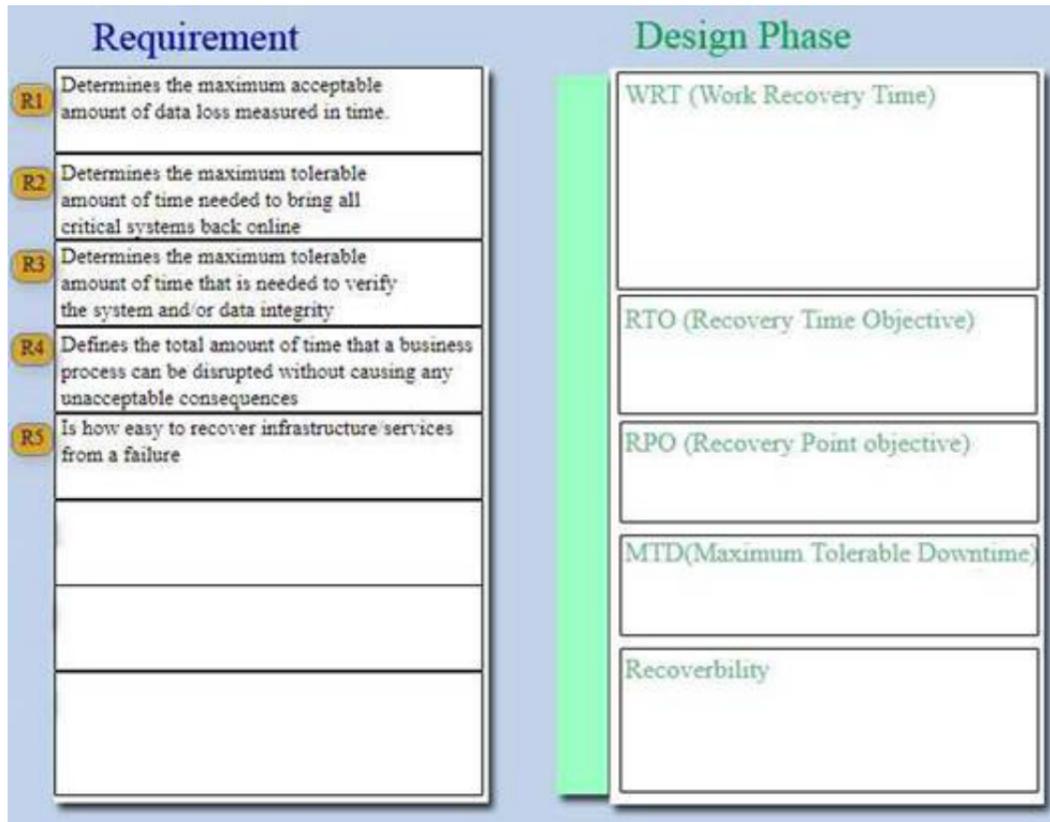
A. Mastered
B. Not Mastered

Answer: A

Explanation:
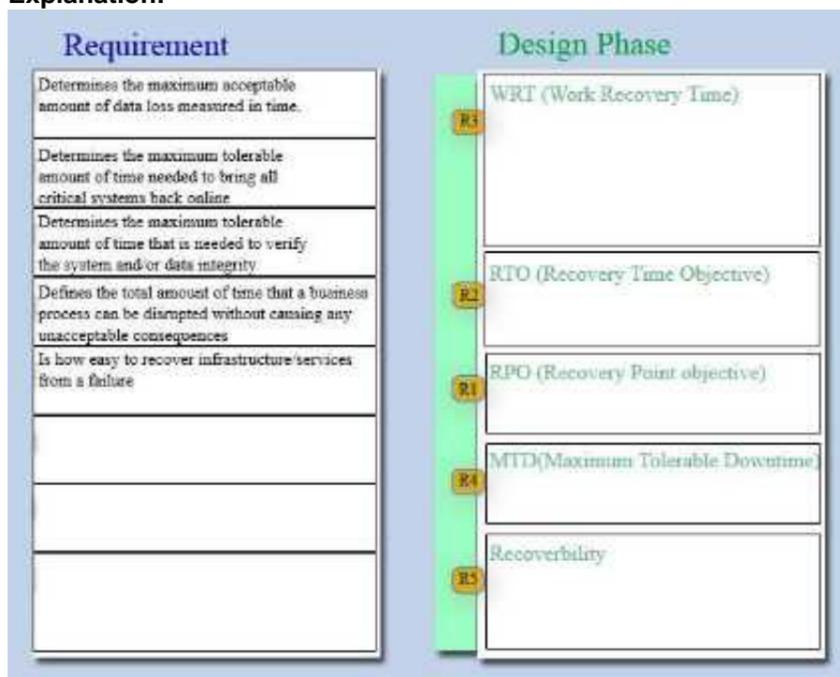
NEW QUESTION 56
A customer is virtualizing a mission-critical Microsoft SQL database and needs a configuration that provides optimal NUMA performance.
• There are two possible clusters that the database virtual machine could reside in: Cluster A is vSphere 6.0 and Cluster B is vSphere 6.5.
• All ESXi hosts contain dual Intel Xeon E5-2650 v3 processors (ie: 2 socket, 10 cores per socket) and 256Gb RAM with vNUMA in its default configuration.
Given this scenario, which three statements are true? (Choose three.)

A. Enabling CPU Hot Add on a virtual machine will disable vNUMA.
B. Placing a 10 vCPU VM in Cluster A and configuring it with 2 Sockets and 5 Cores Per Socket will result in 2 vNUMA nodes.
C. Placing a 10 vCPU VM in Cluster B and configuring it with 2 Sockets and 5 Cores Per Socket will result in 2 vNUMA nodes.
D. Enabling Memory Hot Add on a virtual machine will disable vNUMA.
E. Placing the VM in Cluster B and configuring it with 5 Sockets and 2 Cores Per Socket will result in 1 vNUMA node.

Answer: ABC

NEW QUESTION 61
Drag each option to its appropriate concept.
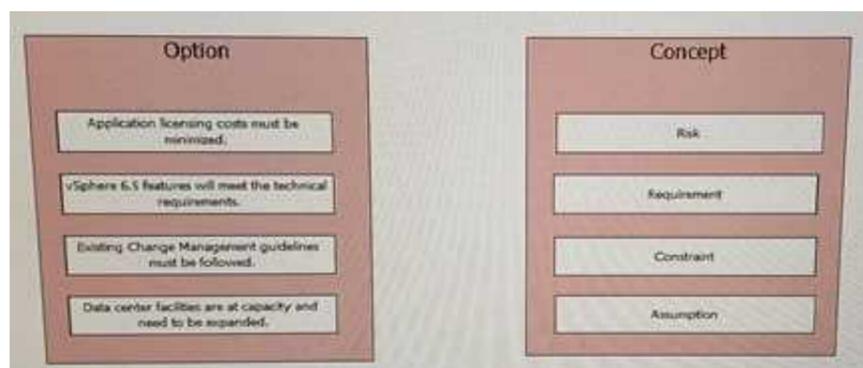
A. Mastered
B. Not Mastered

Answer: A

Explanation:
Risk --> DC facilities are at capacity end...Requirement --> Existing change management guidelines...Constraint --> App licencsing costs must be minimizedAssumption --> vsphere 6.5 features will meet the...

NEW QUESTION 62
When configuring HA, which admission control policy should be used?

A. Host Failure Cluster Tolerates
B. CPU and Memory Percentage for Failover
C. Standby Host
D. None of the above

Answer: B

NEW QUESTION 63
A customer has requested a vSphere 6.5 deployment design that utilizes vCenter Server and the use of vMware-recommended best practices for securing vCenter Server.
Which three actions would satisfy these requirements? (Choose three.)

A. Utlizing vSphere CLI and vSphere SDK for Perl scripts.
B. Restricting vCerter Server access to only the management network
C. Assigning the default Administrator role to all administrator users.
D. Synchronizing time in vCenter Server with a NIP source.
E. Removing expired and revoked certificates from vCenter Server system.

Answer: BDE

NEW QUESTION 68
A solution architect has finished conducting interviews and gathering requirements for a company, and has determined that the logical requirements are:
• two data centers for high availability
• synchronous replication to meet the zero minute RPO
• separating management workloads from application workloads
• dedicated 10Gb uplink for each low latency server
• single management point for the entire environment
Which two actions would meet the design requirements? (Choose two.)

A. Configure 1 Port Group with a dedicated 10Gb Uplink for low latency servers.
B. Deploy two clusters, one for management workloads and one for application workloads.
C. Build 2 Port Groups, one for management serves and one for application servers.
D. Install two vCenter Servers in Enhanced Link Mode.

Answer: AB

NEW QUESTION 71
A developer is tasked with building an application to process shipping requests. The developer is consulting the vSphere team to determine failover options and performance best practices.
• The development team is providing three physical ESXi hosts with 8 CPU cores and 256G8 of RAM per host.
• The developer does NOT know how many virtual machines they will require.
Which virtual machine (VM) sizing strategy will provide the highest level of uptime, individual VM performance, and failover capacity?

A. A few large 8 vCPU VMs per host protected by vSphere HA.
B. Many small 1 vCPU VMs participating in an OS level clustered application protected by vSphere HA.
C. A few large 8 vCPU VMs per host protected by vSphere Fault Tolerance.
D. Many small I vCPU VMs participating in an OS level clustered application protected by vSphere Fault Tolerance.

Answer: A

NEW QUESTION 75
A solutions architect has made the following design decisions:

• Leverage existing hardware that is certified on earlier versions of vSphere but is NOT on HCL for ESXi 6.5.
• Upgrade vCenter Server to version 6.5.
• Configure separate clusters based on ESXi versions 5.5, 6.0, and 6.5 for newly purchased, certified hardware.
• The underlying CPU family is compatible.
• There is enough resources available to vMotion virtual machines (VMs)
Given this scenario, what is the correct statement about the ability to vMotion virtual machines between versions of ESXi?

A. VMs created in vSphere 5.x must be upgraded first to newer virtual hardware and then be vMotioned to vSphere 6.5.
B. VMs created in vSphere 6.5 environment with default settings can be moved to ESXi 5.x.
C. VMs can be vMotioned to the same or newer version of ESXi.
D. VMs that are created after the vCenter Server 6.5 upgrade can be vMotioned between any supported versions of ESXi.

Answer: C

NEW QUESTION 77
Which two types of workloads are efficiently consolidated when virtualized? (Choose two.)

A. Workloads that do NOT require user input and are constantly processing large amounts of batched data.
B. Workloads that will consume all available assigned resources.
C. Workloads that are NOT CPU bound; most of their time is spent waiting for external events such as user interaction.
D. Workloads that do NOT require access to specific physical resources such as a hardware dongle or graphics card.

Answer: CD

NEW QUESTION 81
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