

# VMware

## Exam Questions 3v0-624

VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design Exam



#### NEW QUESTION 1

A company is consolidating its IT operations efforts by moving the Finance, IT, and QA departments towards a self-service environment, following SDDC best practices.

- All departments have different priorities and expectations for uptime of the required infrastructure and applications.
- Project stakeholders are still discussing final approvals for the budget with the CFO.
- To drive down the operating cost of the environment, only blade servers will implement this project.
- To ensure business continuity, a colocation provider was chosen to fail over virtual machines.
- The implementation of the project will follow a public reference architecture provided by VMware. What is the assumption in this scenario?

- A. The chosen architecture is sufficient.
- B. All departments demand different SLAs.
- C. Final budget approvals are being discussed.
- D. The environment will be shared by several departments.

**Answer:** A

#### NEW QUESTION 2

A customer wants to virtualize an Oracle database with vSphere 6.5, but is concerned about its performance. Which three design elements will ensure optimum performance? (Choose three.)

- A. Share as much memory as possible with the balloon driver.
- B. Use VMXNET3 for the network adapter.
- C. Create affinity rules for the virtual machine to a single physical socket.
- D. Use VMware Paravirtual SCSI adapters for data and log vDisk.
- E. Enable Hyper-Threading

**Answer:** BDE

#### NEW QUESTION 3

A company is implementing a new ESXi host cluster at its New York data center.

- The CIO has stated that the new ESXi cluster should be designed with enough failover capacity to sustain two ESXi host failures.
- Six ESXi hosts have been approved for this workload.
- The ESXi hosts are to be purchased from Dell with these specifications:
  - 2x10 core 2.2GHz Intel CPU
  - 128 GB of memory
- The workload is defined as 150 employee desktop virtual machines each with 3GB RAM reserved.
- All virtual machines should be protected by vSphere High Availability. Which are two true statements regarding failover capacity? (Choose two.)

- A. vSphere HA can be configured to reserve 25% of memory capacity for failover.
- B. vSphere HA can be configured to specify two dedicated failover hosts.
- C. vSphere HA can be configured to reserve 35% of memory capacity for failover.
- D. vSphere HA can be configured to specify one dedicated failover host.

**Answer:** BC

#### NEW QUESTION 4

When considering server consolidation, plan on running vCPUs per core.

- A. 1 to 2
- B. 3 to 4
- C. 4 to 6
- D. 6 to 8

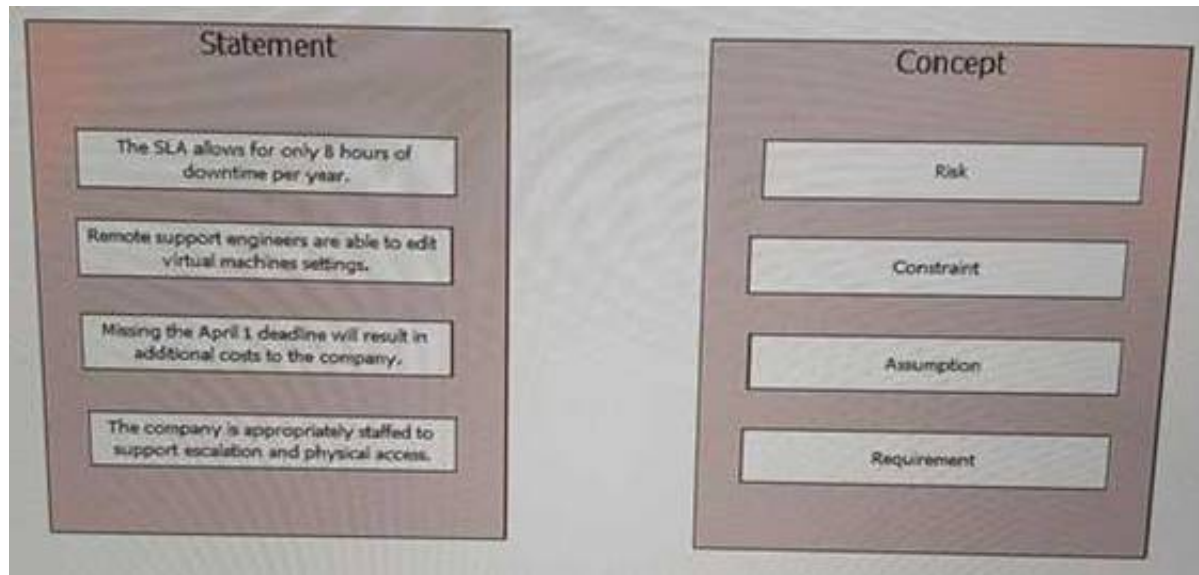
**Answer:** A

#### NEW QUESTION 5

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 supported 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 6**

A company has requested that a new vSphere 6.5 design be created.

- The existing environment consists of 32 vSphere 6.0 hosts attached to an iSCSI storage array.
- The storage arrays contain external customer financial and medical records used by the company's investment and medical services division.

The design must:

- protect the company's existing data center investment
- expand to a second data center site
- introduce process automation
- expand to and fail over to public cloud

Which two non-functional requirements are applicable for this design? (Choose two.)

- A. The product of the design must account for regulatory compliance.
- B. The automation solution must be compatible with the existing equipment.
- C. The product of the design must feature 3DES encryption at the virtual machine disk level.
- D. At least two 10Gbps interfaces must be dedicated to storage on each host.
- E. Every host in the design must have Lockdown Mode enabled for security.

**Answer: CD**

**NEW QUESTION 7**

An organization's security policy requires a design where the ESXi hosts will be manageable only through vCenter Server.

Which two security configurations will help meet this requirement? (Choose two)

- A. enable lockdown mode strict
- B. disable DCUI access
- C. enable lockdown mode normal
- D. disable shell access

**Answer: AD**

**NEW QUESTION 8**

A number of factors determine how many physical adapters are needed in a host design. Which of the following is not one of them?

- A. Virtual machine size
- B. Amount of bandwidth required
- C. Security requirements
- D. Hardware fault tolerance

**Answer: A**

**NEW QUESTION 9**

A company is implementing a new cluster to support its end user desktop workloads.

- The workload is required to support 200 virtual machines.
- Each end-user desktop is configured with two vCPUs, 8GB of RAM, and 40GB of thick-provisioned disk space.
- The architect has expressed concerns that virtual machine swap files will fill the 8.5TB datastore available to the cluster.

Which two strategies would address the architect's concern? (Choose two.)

- A. Configure an additional datastore for snapshot storage
- B. Configure an additional datastore for vswap file storage

- C. Configure each virtual machine with a 4GB memory reservation.
- D. Configure each virtual machine with a 8GB memory reservation.

Answer: BD

NEW QUESTION 10

You have been tasked with creating a vSphere 6.5 data center design for an organization. The customer has decided to virtualize their database application and has provided specific design requirements. You must determine how these requirements map to the design characteristic(s). Match Database Requirements with Design Characteristics by dragging the red button (R1-R5) over the text of the appropriate Design Characteristic. NOTE: Database Requirements can be mapped to more than one Design Characteristic.

Database Requirements

R1

The design must provide enough resources to handle peak utilization times.

R2

The design must support the required average transaction count.

R3

The database application is mission critical.

R4

The design should support 7 days of transaction logs.

R5

The design should be able to gather I/O statistics for the application.

Design Characteristics

Availability

Manageability

Performance

Recoverability

Security

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Database Requirements

R1

The design must provide enough resources to handle peak utilization times.

R2

The design must support the required average transaction count.

R3

The database application is mission critical.

R4

The design should support 7 days of transaction logs.

R5

The design should be able to gather I/O statistics for the application.

Design Characteristics

Availability

R3

Manageability

R1

Performance

R2

R5

Recoverability

R4

Security

NEW QUESTION 10

A customer has storage arrays from two different storage vendors at two different sites. The customer wants to restore operations at the secondary site in the event of a disaster. Which VMware technology must be used to meet this requirement?

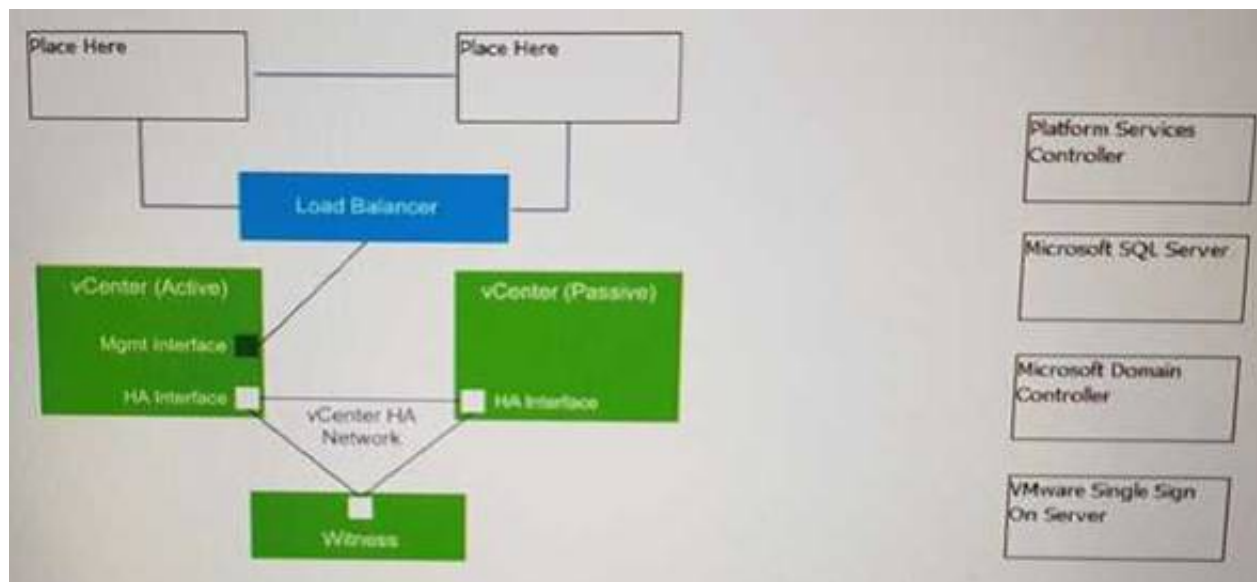
- A. vSphere replication
- B. vSphere Data Protection
- C. array-based replication
- D. vSphere Fault Tolerance

Answer: A

NEW QUESTION 15

In the vCenter HA configuration below, drag the two correct components to the blank boxes in this diagram. The same component may be used more twice (Choose two.)





- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Platform services controller

**NEW QUESTION 18**

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 19**

You are a platform designer constructing a physical design from an existing approved logical design. Out of the vendor proposals, there are two proposed solutions that could be used. Which of the following options is the most important factor when making a decision?

- A. Community and vendor-based best practices
- B. Existing vendor relationships
- C. Project requirements
- D. Project budget

**Answer:** C

**NEW QUESTION 21**

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 26**

Customer Requirements:

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization wants three defined virtual machine performance levels:

- Gold Tier – High workload VMs
- Silver Tier – Medium workload VMs
- Bronze Tier – Development workload VMs

The organization has eight ESXi hosts that can be used in the design. Five of the hosts are older “medium performance” hosts, while the last 3 are newer “high performance” hosts that provide better resources when compared to the other hosts. The organization has provided a list of requirements that the design must meet:

- Gold Tier virtual machines should run only on high performance servers, unless no high performance servers are available. They should also be allocated 75% of overall available resources regardless of placement.
- Silver Tier virtual machines should run only on medium performance servers, unless no medium performance servers are available. They should also be

allocated 25% of overall available resources regardless of placement.

- Bronze Tier virtual machines should run only on medium performance servers. They should also receive a 35% subset of resources from those allocated to the Silver Tier.

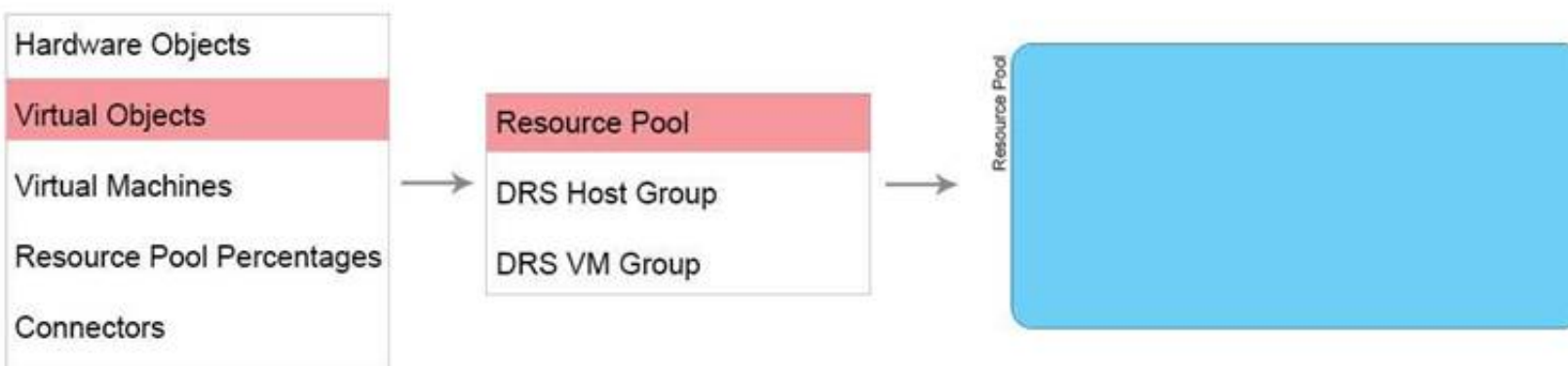
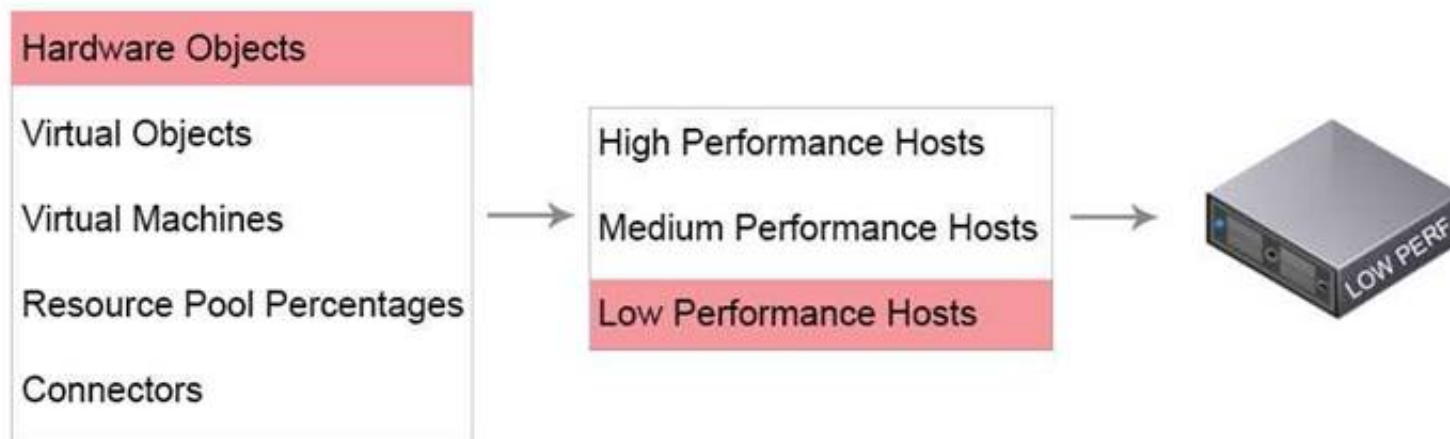
Design Requirements:

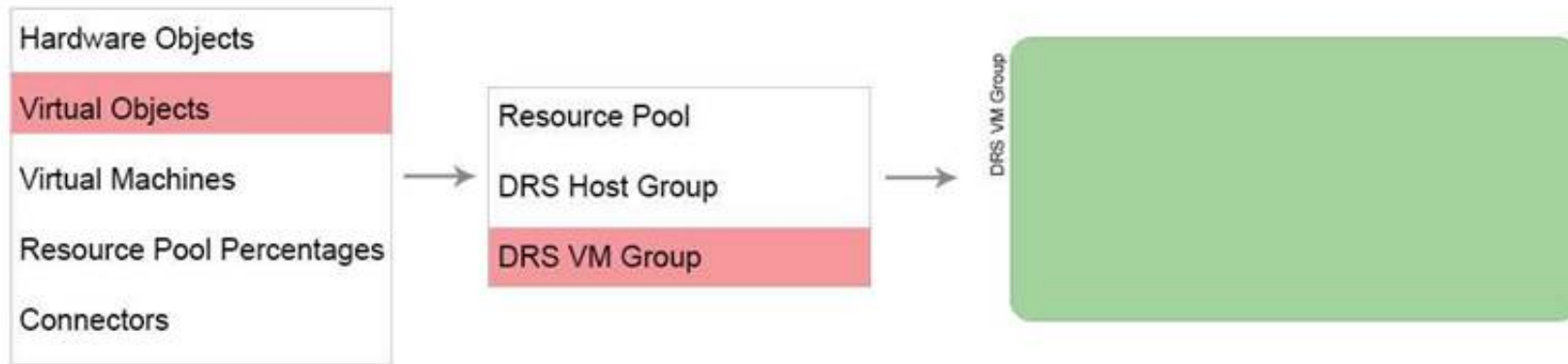
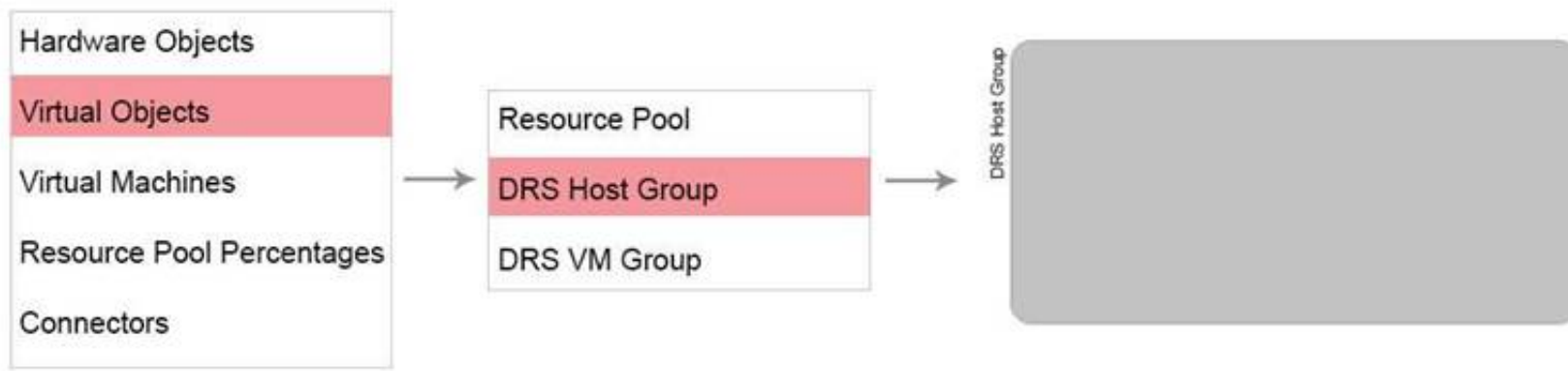
Create a logical design that shows resource allocation and cluster policies needed to meet the customer's requirements. The design should include:

- All required server(s)

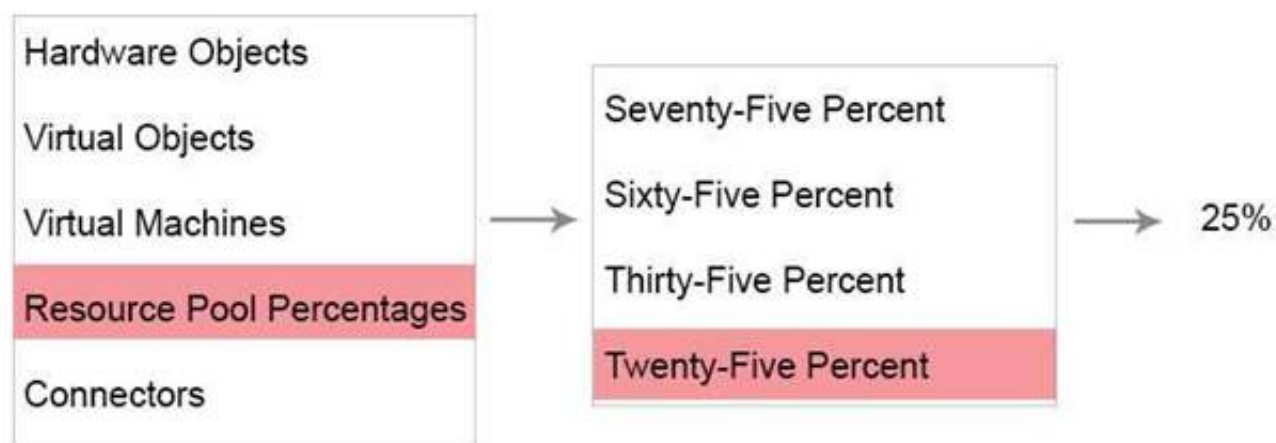
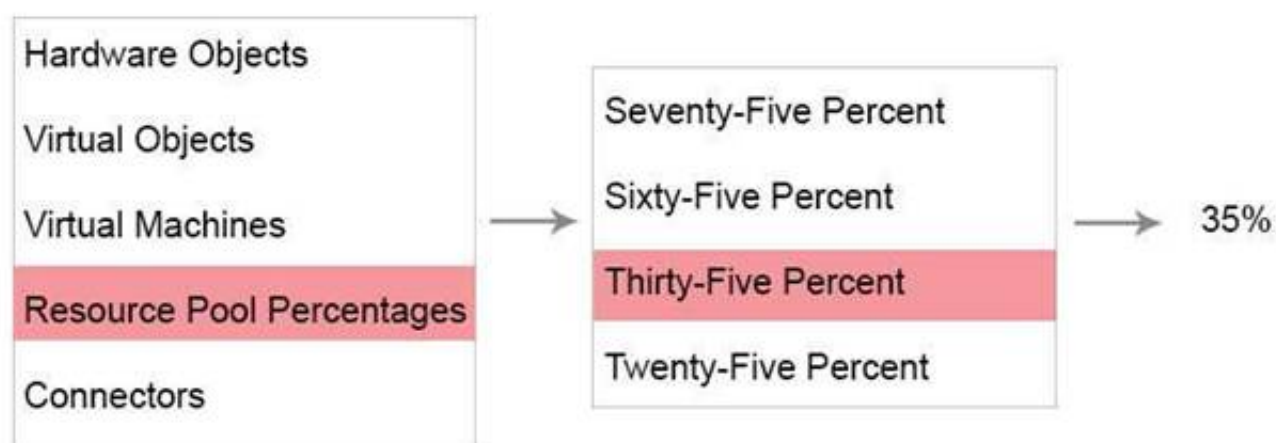
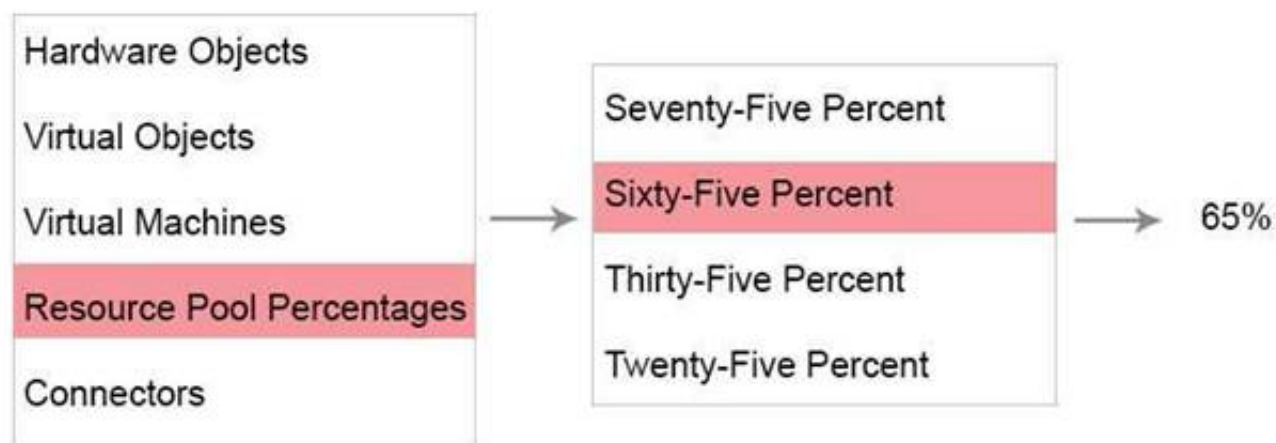
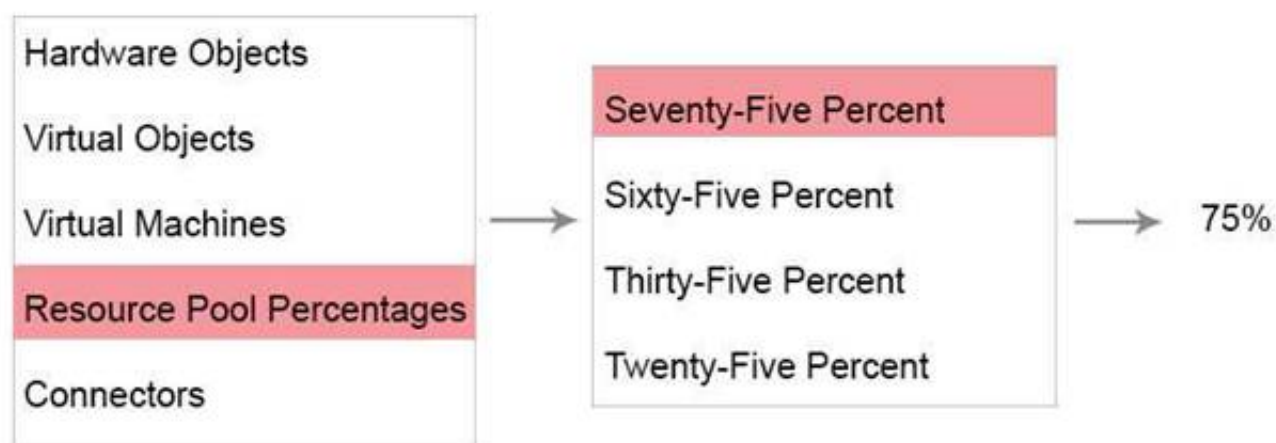
- All required resource(s)

Place host(s) in the required DRS group(s). Place virtual machines in the appropriate resource pool(s). Connect parent to child resource pool connector(s) where needed. Connect the appropriate affinity connector(s) where needed.

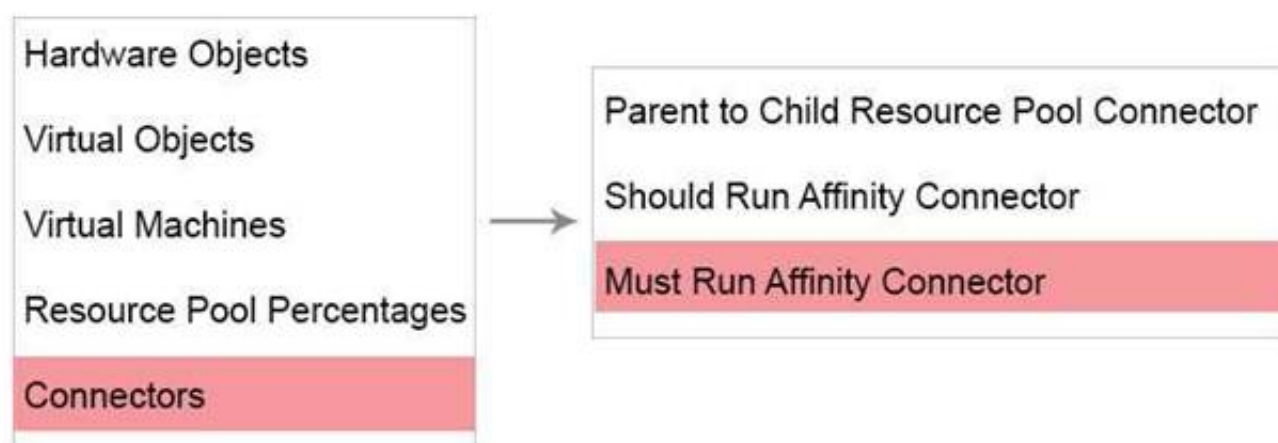
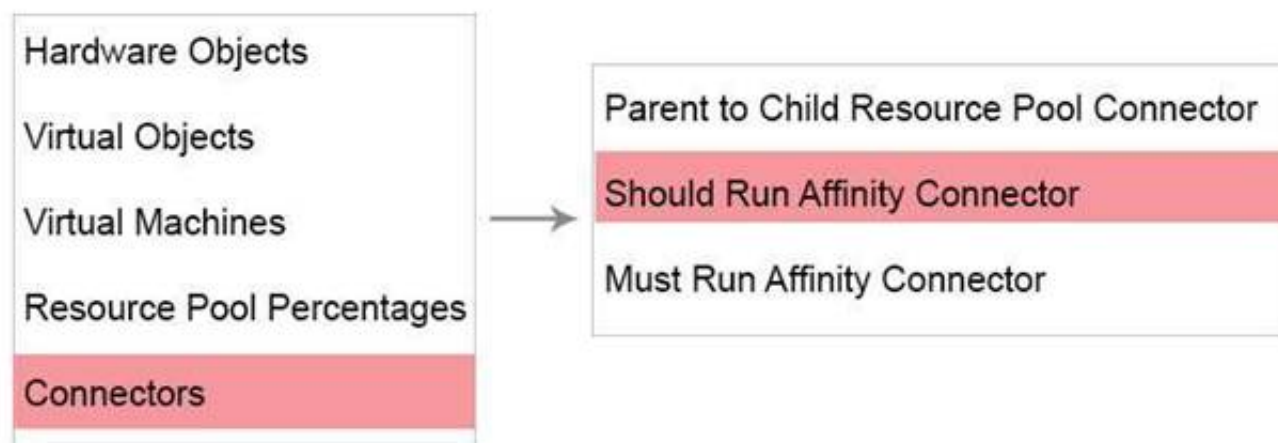
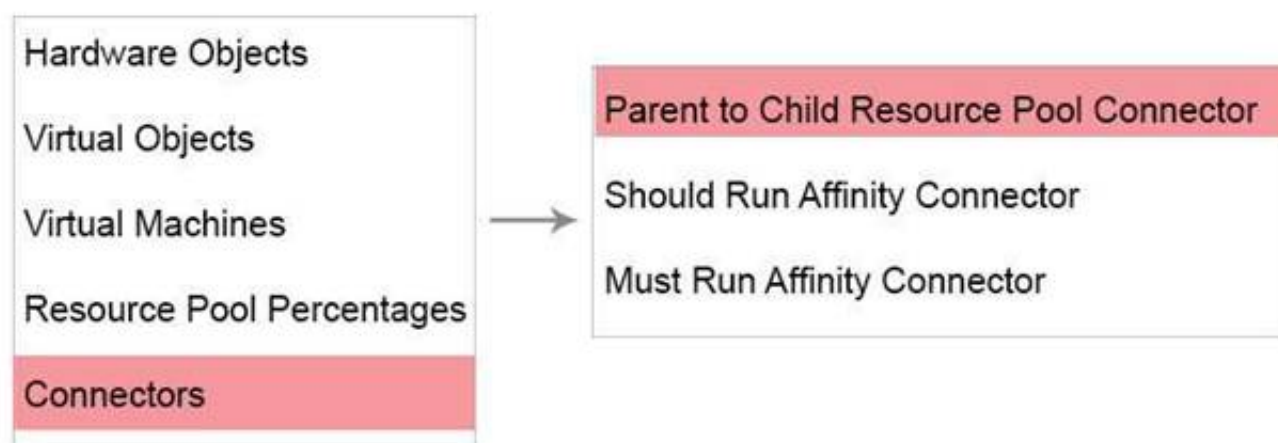










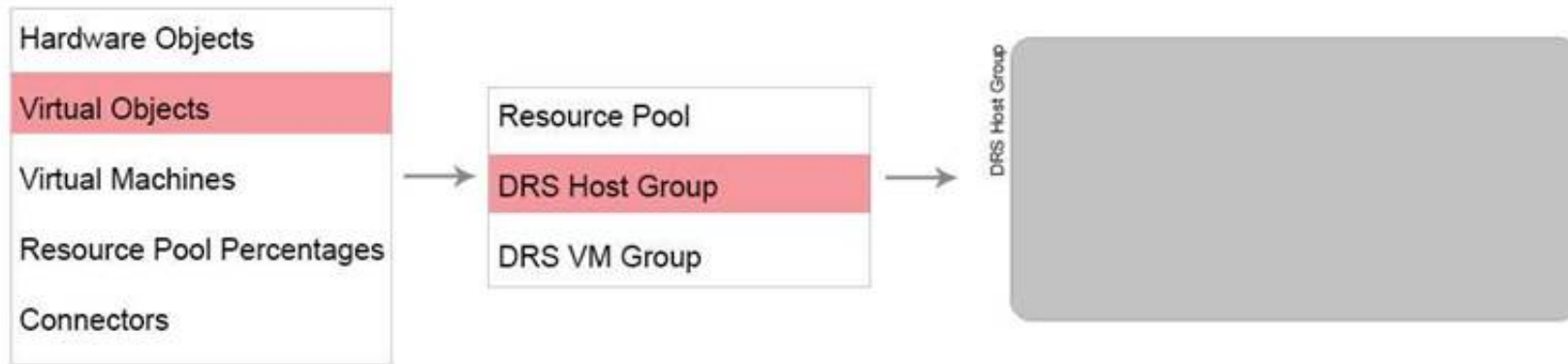
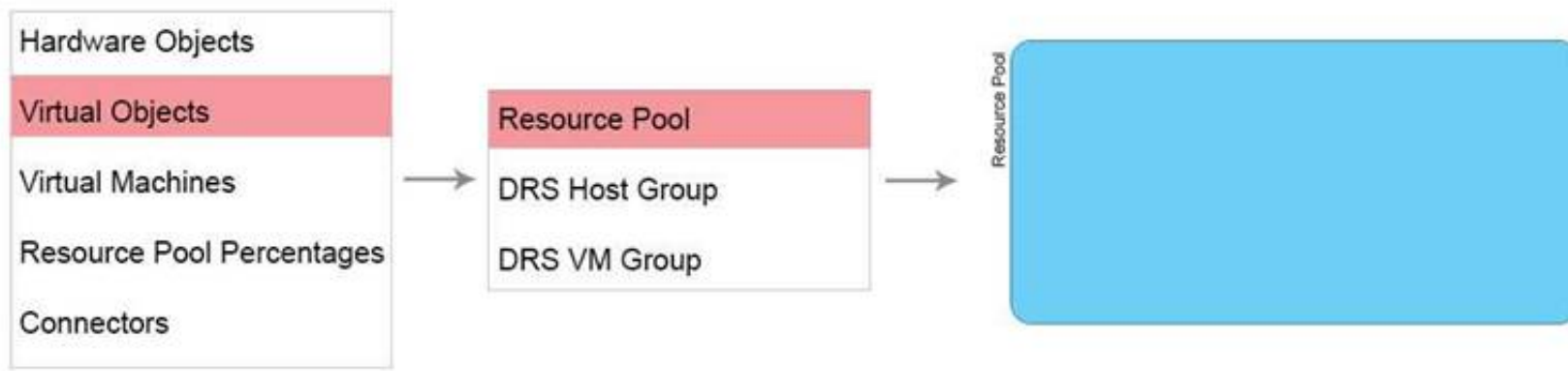


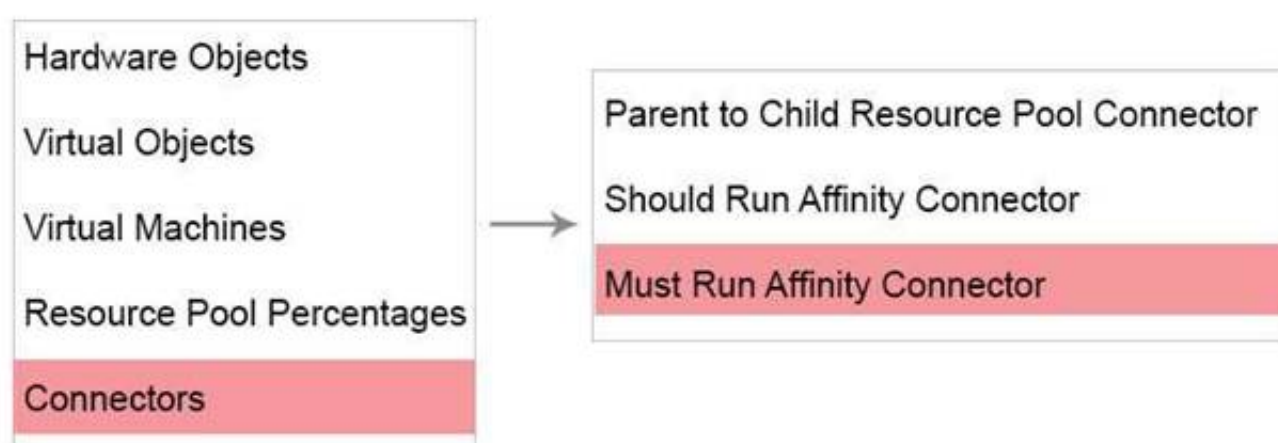
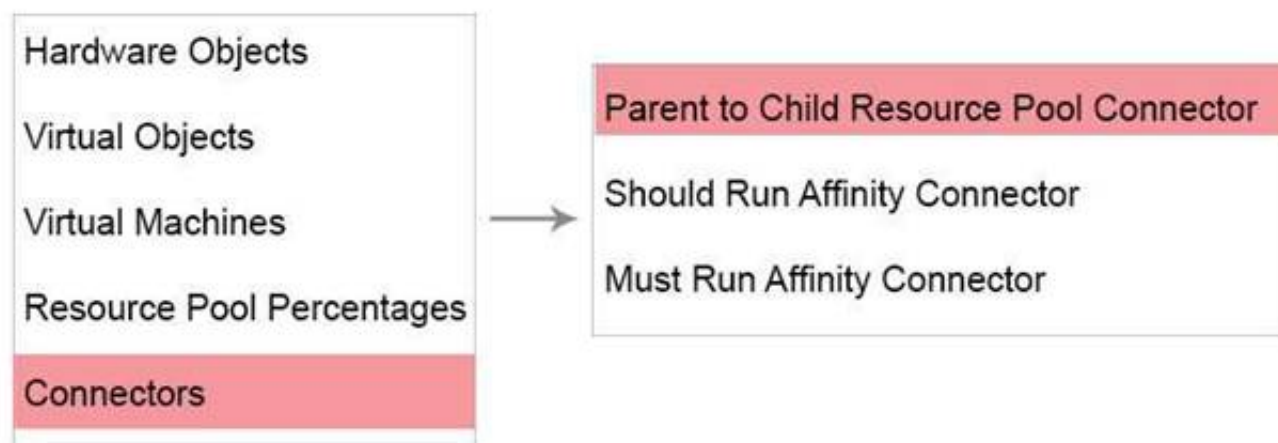
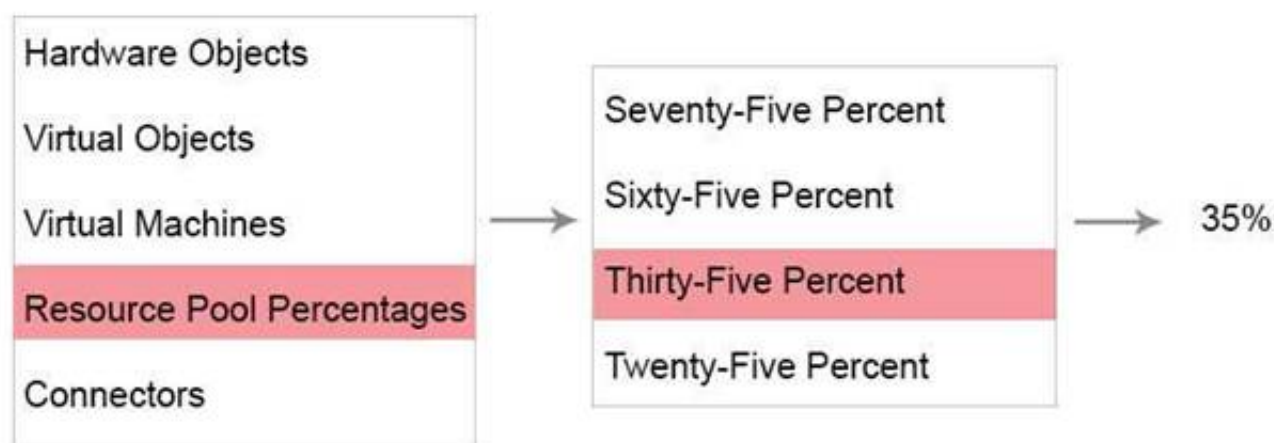
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
Check below for answer solution







#### NEW QUESTION 30

A company's CTO is very concerned about web server outages that are caused by server hardware failures. Which feature can protect the web server virtual machine from this kind of outage?

- A. vCenter High Availability
- B. Proactive High Availability
- C. High Availability Orchestrated Restart
- D. High Availability Admission Control

**Answer:** B

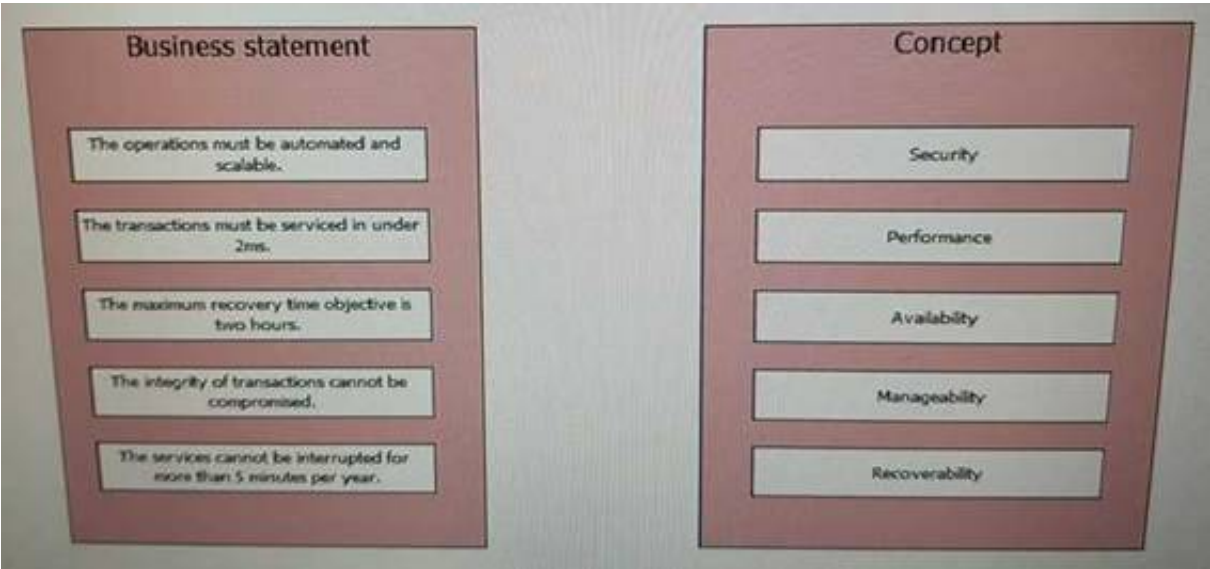
#### Explanation:

<http://www.vmwarearena.com/vsphere-6-5-high-availability-new-features-proactive-ha/> vSphere 6.5 High Availability (HA) now also detect the hardware conditions of the ESXi host and allow you to evacuate the Virtual machines before the hardware issues cause an outage to Virtual machines with the help of Proactive HA.

#### NEW QUESTION 35

Match the business statement to its appropriate concept.

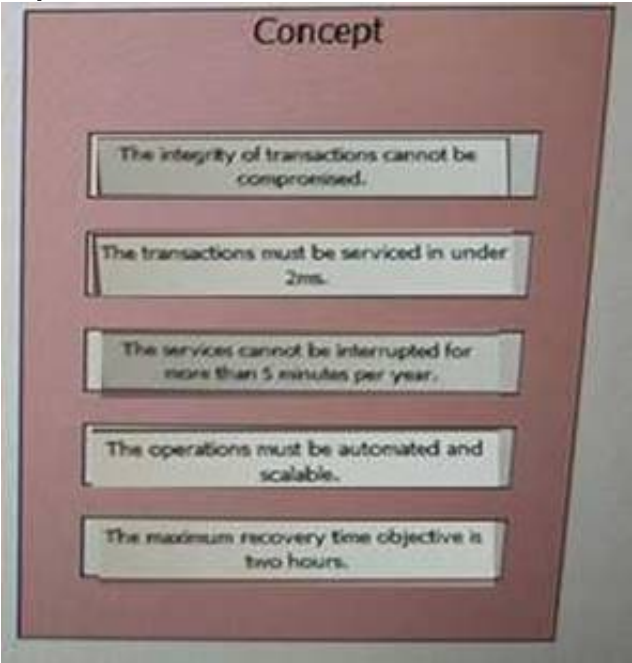




- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 38

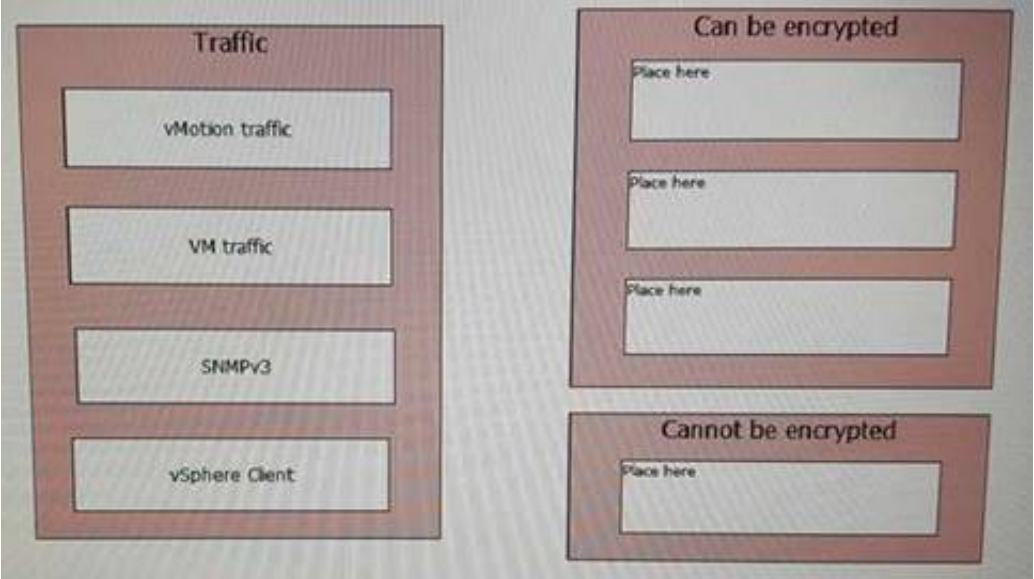
The ability to live-migrate all virtual machines between two clusters is a requirement in the customer's design. Which two clusters and EVC configurations will accomplish this? (Choose two)

- A. Cluster 1• ESXi 6.0• Intel Skylake CPUs• EVC Enabled: AMD Opteron™ "Steamroller" Generation Cluster 2• ESXi 6.5• AMD Steamroller CPUs• EVC Enabled: AMD Opteron™ "Steamroller" Generation
- B. Cluster 1• ESXi 5.6• Intel® Broadwell CPUs• EVC Disabled Cluster 2• ESXi 6.5• Intel® Broadwell CPUs• EVC Disabled
- C. Cluster 1• ESXi 5.5• AMD Piledriver CPUs• EVC Enabled: AMD Opteron™ "Piledriver" Generation Cluster 2• ESXi 6.5• AMD Steamroller CPUs• EVC Enabled: AMD Opteron™ "Piledriver" Generation
- D. Cluster 1• ESXi 6.5• Intel Broadwell CPUs• EVC Enabled: Intel® "Broadwell" Generation Cluster 2• ESXi 6.5• Intel Sandy Bridge CPUs• EVC Enabled: Intel® "Sandy Bridge" Generation

Answer: BC

NEW QUESTION 39

Sort the traffic by whether it can be encrypted natively by vSphere.



- A. Mastered



B. Not Mastered

**Answer:** A

**Explanation:**

vmotion--> it is supportedsnmpv3 --> Natively supports message integrity, auth and encryptionvsphere client --> Using IPSec for IPv6

**NEW QUESTION 43**

A database administrator is operating a virtual machine (VM) configured with 16 vCPU and 64GB of RAM. A recent performance audit has indicated that this virtual machine is oversized and is using less than 60% of its configured CPU and memory capacity.

- The ESXi host that contains this VM has 2 physical processors with 10 cores per processor, and 128GB of RAM.
- This physical host's architecture is split into two equal NUMA nodes.

Which vCPU and RAM configuration for the VM allows for the most resources, but also provides the performance benefit of local NUMA access?

- A. 16 vCPU and 32GB RAM
- B. 4 vCPU and 16GB RAM
- C. 10 vCPU and 64GB RAM
- D. 12 vCPU and 64GB RAM

**Answer:** C

**NEW QUESTION 48**

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

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

**Answer:** B

**NEW QUESTION 52**

A customer is deploying a mission-critical Oracle database with high SLA requirements, including high performance and high availability. The customer has chosen to purchase an All-Flash vSAN solution.

Which three storage policies should be used? (Choose three.)

- A. RAID5/6 for data disk and RAID1 for OS disk with FTT=2.
- B. IOPS limit and checksum should be enabled.
- C. RAID5/6 for OS disk and RAID1 for data disk with FTT=2.
- D. Configure multiple disk stripes.
- E. Deduplication and Compression should be disabled.

**Answer:** CDE

**NEW QUESTION 53**

Which of the following needs to be considered when determining the amount and size of the hosts required for a virtual design?

- A. Aggregate CPU and memory requirements
- B. Future growth
- C. Number of vCPUs to be hosted per box
- D. All of the above

**Answer:** D

**NEW QUESTION 57**

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.

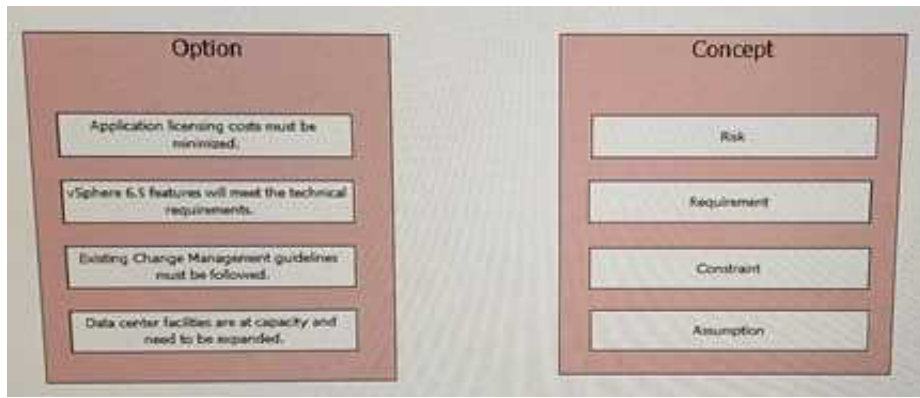
Given this scenario, which three statements are true? (Choose three.)

- 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 62**

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 licencing costs must be minimized Assumption --> vsphere 6.5 features will meet the...

**NEW QUESTION 65**

A business organization has different types of network traffic, and all the types of traffic must be kept separated. The design architect knows that the number of required networks is greater than the number of physical ports in the system. Which three choices can the architect use to keep the traffic separated? (Choose three.)

- A. Combine vMotion, Management, and vSAN to one VMkernel port.
- B. Configure VLANs to create separate networks.
- C. Purchase hardware that supports a greater number of network ports.
- D. Utilize Private VLANs.

**Answer: BCD**

**NEW QUESTION 69**

The system administrator team is planning to upgrade its vCenter Server 5.5 environments to version 6.5.

- Each vCenter 5.5 is pointing to a Single Sign On (SSO) server that has a dedicated virtual machine.
  - The SSO servers are currently in independent SSO domains.
  - During the upgrade process, the administrators would like to combine their two SSO domains into a single one.
- View the exhibit.



Referring to the exhibit, which upgrade scenario would accomplish this?

- A. 1. Upgrade the Denver SSO server to a 6.5 PSC.2. Upgrade the Denver vCenter Server 5.5 to version 6.5.3. Use the migration utility to upgrade the New York vCenter Server to 6.5.4. Choose to join it to the Denver PSC.
- B. 1. Upgrade the Denver SSO server to a 6.5 PSC.2. Use the migration utility to upgrade the New York SSO server.3. Choose to join the existing SSO domain during the second upgrade.4. Upgrade both of the vCenter Servers to 6.5.
- C. 1. Upgrade both of the SSO servers to 6.5 PSCs.2. Upgrade both of the vCenter Servers to 6.5.3. Install a new 6.5 PSC in the same SSO domain as the Denver 6.5 PSC.4. Repoint the New York vCenter Server to the newly-installed PSC.
- D. 1. Install a new New York SSO 5.5 server in the same SSO domain as the Denver SSO server.2. Repoint the New York vCenter Server to the newly-installed SSO server.3. Upgrade both SSO servers to 6.5 PSCs.4. Upgrade both vCenter Servers to 6.5.

**Answer: D**

**NEW QUESTION 71**

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. Utilizing vSphere CLI and vSphere SDK for Perl scripts.
- B. Restricting vCenter 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 NTP source.
- E. Removing expired and revoked certificates from vCenter Server system.

**Answer: BDE**

**NEW QUESTION 76**

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 1 vCPU VMs participating in an OS level clustered application protected by vSphere Fault Tolerance.

Answer: A

NEW QUESTION 79

You have been tasked with creating a vSphere 6.5 data center design for an organization. During the key stakeholder and SME interviews, a set of goals, requirements, assumptions and constraints were identified. Evaluate each of the requirements, assumptions, and constraints (RAC) and determine which design characteristics apply.

Match each of the Requirements, Assumptions and Constraints by dragging the RAC buttons (R1-R5) over the text of the appropriate Design Characteristic.

NOTE: RACs may fit one or more of the Design Characteristics.

RAC

R1

All hosts per location are configured uniformly and all differences or changes are tracked.

R2

The implementation should be easily repeatable.

R3

Deployment of system and services should be automated.

R4

The custom order processing system at the primary site must be kept running with no downtime.

R5

All production servers should be segregated.

Design Characteristic

Availability

Manageability

Performance

Recoverability

Security

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

RAC

R1

All hosts per location are configured uniformly and all differences or changes are tracked.

R2

The implementation should be easily repeatable.

R3

Deployment of system and services should be automated.

R4

The custom order processing system at the primary site must be kept running with no downtime.

R5

All production servers should be segregated.

Design Characteristic

Availability

R3

R4

Manageability

R5

Performance

R4

Recoverability

R2

Security

R1

NEW QUESTION 84

You have been tasked with creating a vSphere 6.5 data center design for an organization. After interviewing key stakeholders and subject matter experts for a new implementation, it was determined that:

1. Existing network infrastructure should be sufficient.
2. HIPPA compliance must be maintained.
3. Mission critical applications must be recoverable.
4. Provide training to staff to ensure they can support the implementation.
5. IT department capital investment has been agreed upon and approval is nearly complete.

For each statement, you must determine if the statement should be categorized as an assumption, constraint, requirement or risk.

Match each Business Statement by dragging the red Statement buttons (S1-S5) over the text of the appropriate Categorization.

NOTE: Statements can have more than one Categorization.

Business Statement		Categorization	
S1	Approved capital investment		Assumption
S2	Recovery of mission critical applications		Constraint
S3	Sufficient network infrastructure		Requirement
S4	HIPPA Compliance		Risk
S5	Educating current staff		

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Business Statement		Categorization	
S1	Approved capital investment		Assumption S2 S3
S2	Recovery of mission critical applications		Constraint S4
S3	Sufficient network infrastructure		Requirement S1 S5
S4	HIPPA Compliance		Risk
S5	Educating current staff		

NEW QUESTION 85

What topics need to be considered when creating a storage design?

- A. Application I/O requirements
- B. Growth rate
- C. Latency
- D. All of the above

Answer: D

NEW QUESTION 89

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