3V0-624$^{Q\&As}$

VMware Certified Advanced Professional 6.5 – Data Center Virtualization Design Exam

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QUESTION 1

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

Correct Answer: A

https://docs.vmware.com/en/VMware-vSphere/6.0/com.vmware.vsphere.install.doc/GUID-8E23C952-56B1-43CB-A1D3-F3259FD73FA4.html

QUESTION 2

Drag and Drop

You have been tasked with creating a vSphere 6.5 data center design for an organization. The organization has provided a number of requirements, resulting in a preliminary vSphere cluster design shown in the Scenario.

The organization has purchased additional servers configured with large amounts of resources (i.e. CPU, RAM) that could be integrated into the cluster design. Consider each vSphere cluster design and determine the benefit of adding

additional servers to the design.

Based on customer requirements, a vSphere Cluster design has been defined:

Cluster A
(8 ESXi hosts)

- **High Performance** Resource Pool – 70% of all cluster resources, virtual machines have dedicated reservations for CPU and Memory that do not expand.
    - Contention Present: None
    - VMs: 20
- **Infrastructure** Resource Pool – 30% of all resources, virtual machines have dedicated reservations for CPU and Memory that do not expand
    - Contention Present: None
    - VMs: 12

Cluster B
(3 ESXi hosts)

- **Development** Resource Pool – 50% of all resources, virtual machines have no CPU or Memory reservations present.
    - Contention Present: Memory Contended, no CPU Contention
    - VMs: 18
- **Reporting** Resource Pool – 50% of all resources, virtual machines memory reservation may expand, no CPU reservation present.
    - Contention Present: Memory Contended, CPU Contended
    - VMs: 2

Cluster C
(6 ESXi hosts)

- **Client Back-End Hosting** Resource Pool – 75% of all resources, virtual machines have CPU and Memory limits
    - Contention Present: Memory Contended
    - VMs: 5
- **Client Front-End Hosting** Resource Pool – 25% of all resources, virtual machines have no CPU limits, however memory limits are in place.
    - Contention Present: Memory contended, no CPU Contention

Match the Action on the left by dragging the red buttons (A1-A3) over the text of the corresponding Effect. NOTE: Actions taken might have more than one Effect on the cluster design.

Select and Place:

Database Requirements

R1
R2
R3

Add servers to Cluster A

Add servers to Cluster B

Add servers to Cluster C

Design Characteristics

Provides additional CPU resources to every virtual machine in the cluster.

Provides additional memory resources to every virtual machine in the cluster.

Provides additional CPU resources to some virtual machines in the cluster.

Provides additional memory resources to some virtual machines in the cluster.

No benefit to virtual machine CPU resources.

No benefit to virtual machine memory resources.

Correct Answer:

Database Requirements

Add servers to Cluster A

Add servers to Cluster B

Add servers to Cluster C

Design Characteristics

Provides additional CPU resources to every virtual machine in the cluster.

R3 Provides additional memory resources to every virtual machine in the cluster.

R2 Provides additional CPU resources to some virtual machines in the cluster.

R1 Provides additional memory resources to some virtual machines in the cluster.

No benefit to virtual machine CPU resources.

No benefit to virtual machine memory resources.

QUESTION 3

A customer has requested that a new vSphere 6.5 environment be designed with its upcoming data center consolidation effort in mind.

1.

 The existing environment is a mix of physical and virtual servers

2.

 Fibre Channel storage is used for 100 vSphere ESXi hosts and 600 physical servers across three data centers, some of which contain latency sensitive applications critical to ongoing business

3.

 The customer expects to increase its virtualization ratio from 50% today to 90% at the conclusion of this effort, and wants the new design to feature a software-defined storage solution that will decrease their TCO. Which two statements are the business requirements in this scenario? (Choose two.)

A. The design must include VMware vSAN as the primary storage solution

B. The design must account for business-critical applications

C. The design must increase virtualization adoption

D. The design must reuse wherever possible to reduce cost

Correct Answer: AD

QUESTION 4

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.
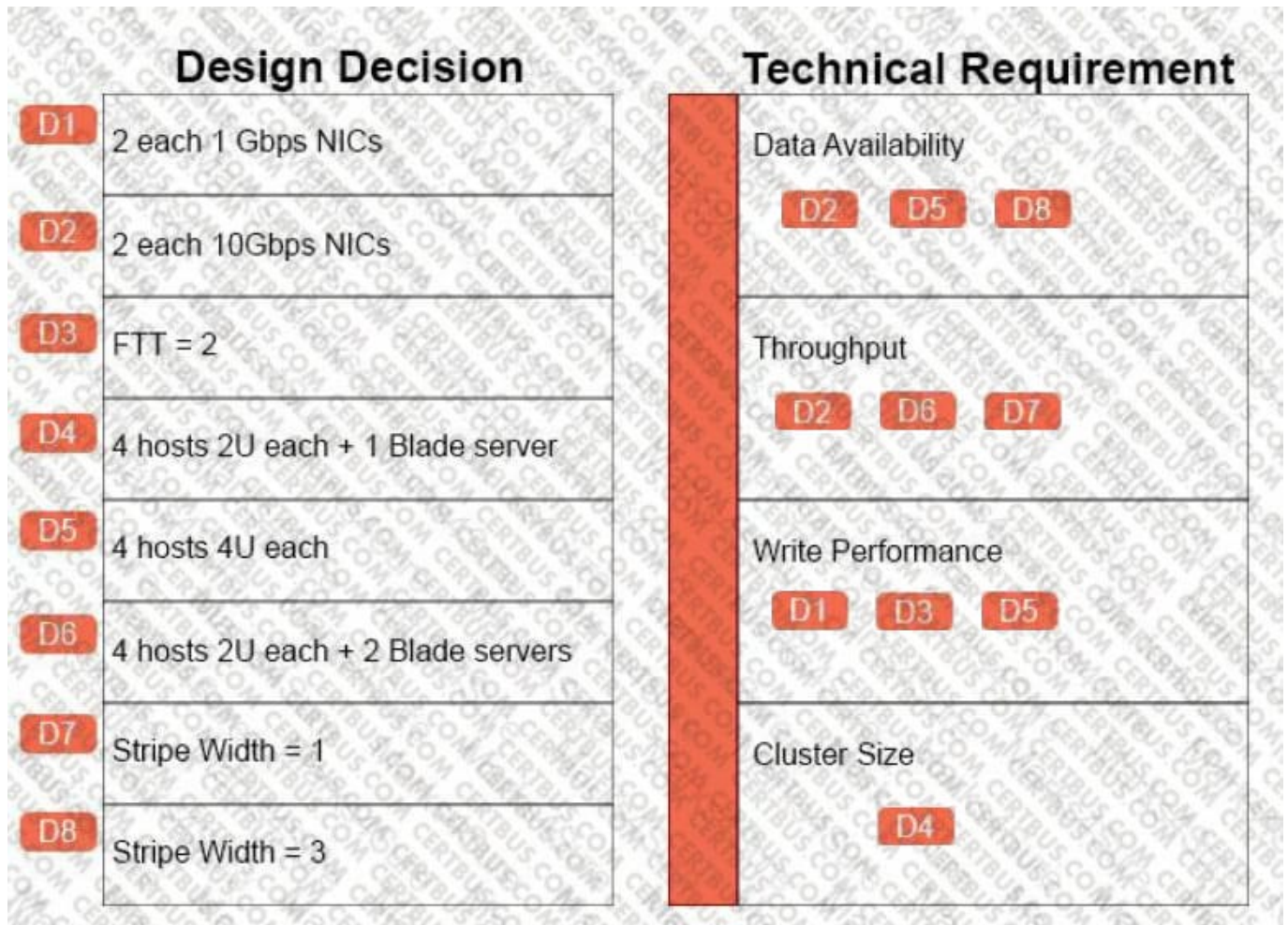
NOTE: Not all Design Decisions will be used.

Select and Place:

Design Decision

D1	2 each 1 Gbps NICs
D2	2 each 10Gbps NICs
D3	FTT = 2
D4	4 hosts 2U each + 1 Blade server
D5	4 hosts 4U each
D6	4 hosts 2U each + 2 Blade servers
D7	Stripe Width = 1
D8	Stripe Width = 3

Technical Requirement

- Data Availability
- Throughput
- Write Performance
- Cluster Size

Correct Answer:

Design Decision

D1	2 each 1 Gbps NICs
D2	2 each 10Gbps NICs
D3	FTT = 2
D4	4 hosts 2U each + 1 Blade server
D5	4 hosts 4U each
D6	4 hosts 2U each + 2 Blade servers
D7	Stripe Width = 1
D8	Stripe Width = 3

Technical Requirement

Data Availability

D2   D5   D8

Throughput

D2   D6   D7

Write Performance

D1   D3   D5

Cluster Size

D4

QUESTION 5

An architect is planning to virtualize an Oracle database using VMware-recommended storage best practices to ensure maximum performance for REDO logs, OS, and data disks. How should the virtual machine be configured for maximum storage performance?

A. Connect redo, data, and OS virtual disks onto several SCSI controllers and place the disks on a single datastore.

B. Connect redo, data, and OS virtual disks onto several SCSI controllers and place the disks on several datastores with different performance characteristics.

C. Connect redo, data, and OS virtual disks onto a single SCSI controller and place the disks on a single datastore.

D. Connect redo, data, and OS virtual disks onto a single SCSI controller and place the disks on several datastores with different performance characteristics.

Correct Answer: A

QUESTION 6

A customer runs a vSphere cluster for hosted desktops with these capabilities:

1.

 It allows end users to use any device to access the environment and to have access to all internal applications.

2.

 The cluster hosts image-processing applications, and the images are processed during off hours.

3.

 The architecture maximized the use of server hardware around the clock.

4.

 The Active Directory default Group Policy for desktops is set to turn on the screensaver with animation after minutes of inactivity.

5.

 The Active Directory default Group Policy is applied after a newly-deployed Window 10 desktop is joined to the Active Directory domain.

6.

 The performance data show that during off hours, the virtual desktops are still consuming a significant number of CPU cycles.

Minimize the CPU cycles, what would be VMware\\'s recommendation for screensaver usage in the virtual machine?

A. Replace Windows Animation with X-Server because it\\'s a more efficient way of utilizing physical CPU cycles.

B. Adjust the Active Directory policy so that the screensaver is not using any sort of animation.

C. Keep the settings as they are enforced by Active Directory, because screensavers save GPU cycles on the ESXi host.

D. Screensavers don\\'t affect CPU usage, so the customer must ask the users to avoid using desktops during off-hours because they are taking CPU cycles from the image-processing application.

E. Disable the screensaver when extra physical CPU cycles are consumed.

Correct Answer: E

QUESTION 7

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

Correct Answer: B

QUESTION 8

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.

Correct Answer: BDE

https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.vsphere.security.doc/GUID-6975426F-56D0-4FE2-8A58-580B40D2F667.html https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.vsphere.security.doc/GUID-16227288-E2D1-4759-9EF1-321CE634F2AB.html https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.vsphere.security.doc/GUID-F583EF9D-49A0-438F-8A8E-DD6E0A11186E.html

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QUESTION 9

Which feature should be enabled to allow vSphere HA to detect datastore accessibility failure, and to provide automated recovery for affected virtual machines?

A. vSphere HA: Orchestrated Restart

B. VM Anti-Affinity

C. VM Component Protection

D. Storage vMotion

Correct Answer: C

https://docs.vmware.com/en/VMware-vSphere/6.0/com.vmware.vsphere.avail.doc/GUID-F01F7EB8-FF9D-45E2-A093-5F56A788D027.html

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QUESTION 10

Customer Information The Customer Labtown has a new vSphere 5 environment with one of their line of business applications recently being virtulized. Labtown requires that their Webserver, Database Server, and Fileserver for their

line of business app be

created into a vAPP. The VM\\'s should start up in a specific order to insure the application starts correctly after an outage or reboot. Labtown also wants the best performance possible out of each VM. There is three hosts in the cluster each running the same CPU and Memory specifications. each host is running at 60% utilization right now. Labtown doesn\\'t have any budget for more hosts. Create a logical vAPP design for Labtowns Line of Business Application Requirements

-

The server must boot in the following order: DB, Fileserver, WebServer

-

Each VM must perform the best it can with the current cluster configuration Instructions

-Place the three VM\\'s on the vAPP

-

Place the boot order boxes ontop of each VM to indicate the VM\\'s boot order

-

Place the VM stencil for each VM in the DRS rules section if you wish to apply DRS rules to the design
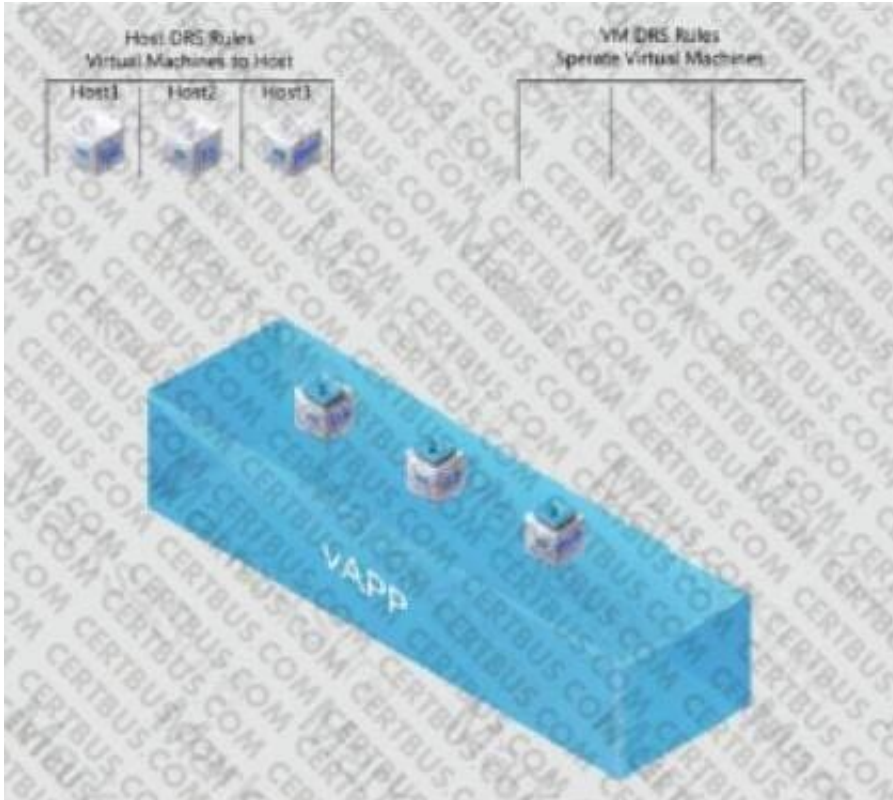
-

As long as VM\\'s are on the vAPP stencil marks will be scored See the solution below

A.

Check the answer in explanation.

Correct Answer: A

Check below for answer solution:

QUESTION 11

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.
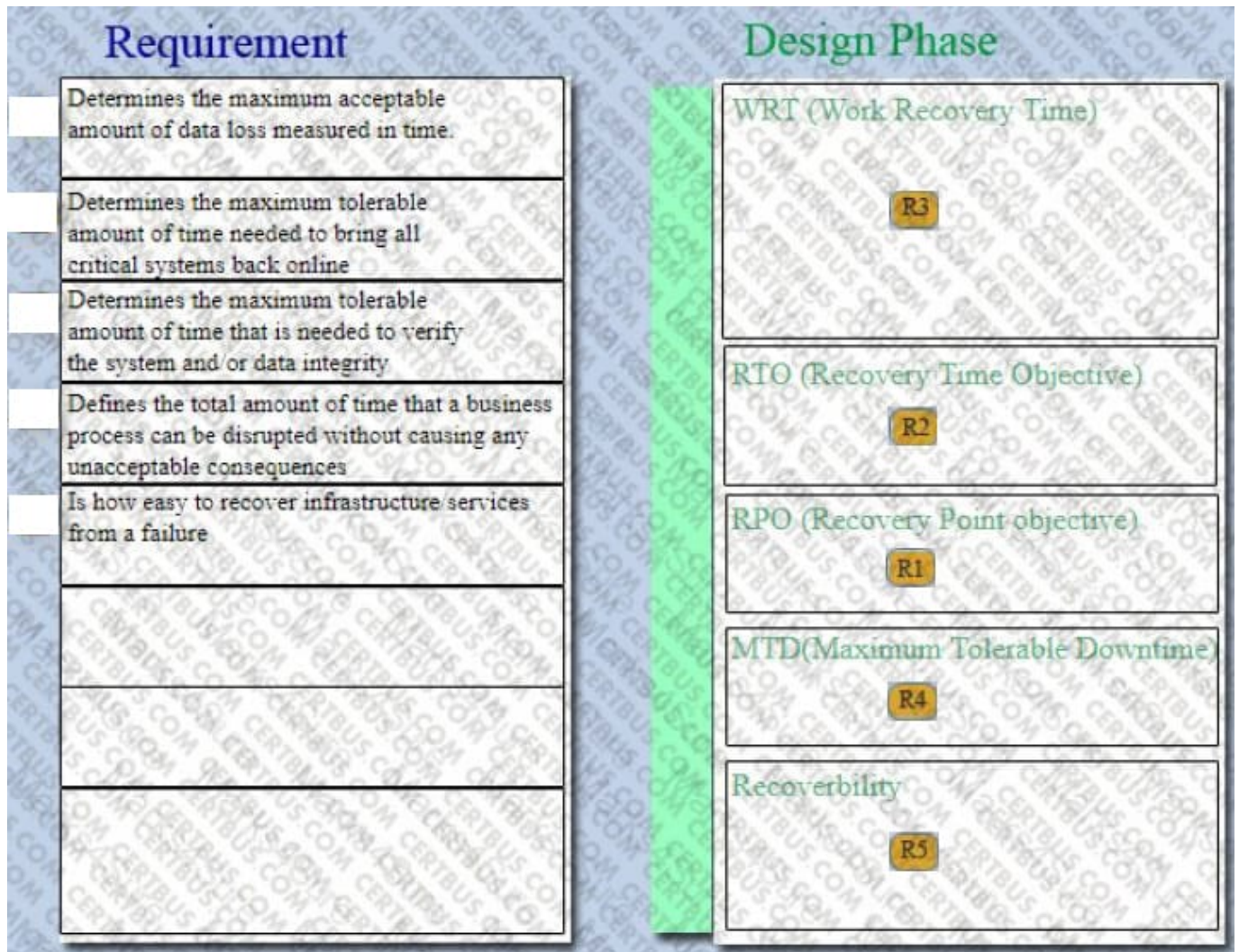
Select and Place:

Requirement

R1	Determines the maximum acceptable amount of data loss measured in time.
R2	Determines the maximum tolerable amount of time needed to bring all critical systems back online
R3	Determines the maximum tolerable amount of time that is needed to verify the system and/or data integrity
R4	Defines the total amount of time that a business process can be disrupted without causing any unacceptable consequences
R5	Is how easy to recover infrastructure services from a failure

Design Phase

- WRT (Work Recovery Time)
- RTO (Recovery Time Objective)
- RPO (Recovery Point objective)
- MTD (Maximum Tolerable Downtime)
- Recoverbility

Correct Answer:

QUESTION 12

A solution architect has been tasked with designing a new environment for a company\\'s growing needs, and has obtained this information:

1.

Uptime is critical during regular business hours when 95% of the transactions occur. Application uptime must be 99.9% during those hours.

2.

In a true Disaster, the business can withstand a day of data loss and half a day of downtime.

3.

The company is one year into a 5-year contact with the co-lo data center.

4.

The building that is currently occupied no hanger has any floor space available, but the company has 3 empty racks of space. The co-lo can provide up to 11KVA of power per rack.

5.

There are current contacts with Dell to provide servers and with Cisco to provide the network components.

6.

The network team has standardized on an end-to-end 10Gb network.

Based on this information, what are two requirements for the new design? (Choose two.)

A. RTO of 24 hours.

B. RTO of 12 hours.

C. The application must be available 99.9% during business hours.

D. 11KVA of power is available per rack.

Correct Answer: BC

the business can withstand a day of data loss -> this is RPO 24hrs (there is no option for RPO in answers)half a day of downtime -> this is RTO 12hrs

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QUESTION 13

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.

Select and Place:

Business Statement

S1	Approved capital investment
S2	Recovery of mission critical applications
S3	Sufficient network infrastructure
S4	HIPPA Compliance
S5	Educating current staff

Categorization

Assumption
Constraint
Requirement
Risk

Correct Answer:

Business Statement

Approved capital investment
Recovery of mission critical applications
Sufficient network infrastructure
HIPPA Compliance
Educating current staff

Categorization

Assumption	S2 S3
Constraint	S4
Requirement	S1 S5
Risk	

QUESTION 14

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.

Correct Answer: ABE

A) RAID 5/6 should be used for capacity, not performance (good for normal use case, but here high performance are required); B) IOPS limit should be enabled as switching path every few IO improve performance and reduce downtime should a path fail; C) RAID 1 preferred over RAID 5/6 for performance D) While having multiple disk stripes might generally improve performance, this is not the case with Oracle E) Dedup and compression are good for capacity, but impact performance

The link provided by Todd adds some more info, although his answer can\\'t be correct (it can\\'t be both A and C).Some extra info here: https://storagehub.vmware.com/t/vmware-vsan/oracle-database-on-vmware-vsan-6-7/

QUESTION 15

Match the business statement to its appropriate concept.

Select and Place:

Business statement	Concept
The operations must be automated and scable	Security
The transactions must be services in under 2ms.	Performance
The maximum recovery time objective is two hours.	Availability
The integrity of transactions cannot be compromised.	Manageability
The services cannot be interrrupted for more than 5 minutes per year.	Recoverability

Correct Answer:

Business statement	Concept
	The integrity of transactions cannot be compromised.
	The transactions must be services in under 2ms.
	The services cannot be interrrupted for more than 5 minutes per year.
	The operations must be automated and scable
	The maximum recovery time objective is two hours.

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