Q&A

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Vmware

3V0-21.21

Advanced Design VMware vSphere 7.x

Question: 100

A Cloud Service Provider wants to introduce backup as a service for a customer's vSphere-based virtual machines.

The following information is noted:

   They have a single four-port (2 × 10 GbE and 2 × 1 GbE) NIC per ESXi host

   All top-of-rack (ToR) switches are 10 GbE and fully populated

   The backup traffic must not impact existing services

Which two recommendations should the architect make to help the customer incorporate the service? (Choose two.)
A. Enable and tag traffic on the backup distributed port group
B. Add a new two-port 10 GbE NIC per ESXi host
C. Replace the existing NIC with a two-port 25 GbE NIC per ESXi host
D. Match the Class of Service (CoS) and Differentiated Services Code Point (DSCP) values to the physical network
E. Create a new virtual switch using the 1 GbE uplinks

Answer: A,B

Question: 101

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, 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: D

An architect is tasked with planning the design of a new vSphere environment. When commissioned, this environment will be used to migrate an existing set of virtual machines.

An inventory of the existing infrastructure, including configured vCPU, RAM and storage sizes has been provided.

In order for each virtual machine to be migrated, which two data sources with peak and average utilization data are required for sizing? (Choose two.)
A. %Ready
B. Disk Write latency
C. CPU
D. Ballooned memory
E. IOPS

Answer: B,E

Question: 103

An architect will be taking over control of a former Linux server fleet and repurposing the hardware into a new vSphere cluster. The current environment is already connected to the network but the hosts do not have any local disks. Since the fleet hardware is uniform, the architect can use a single ESXi image. All hosts within the cluster have the same CPU and memory capacity.

Which ESXi deployment method should the architect use?
A. Stateless cached vSphere Auto Deploy
B. Stateless vSphere Auto Deploy
C. Manual install of each ESXi host with an image from USB
D. Stateful vSphere Auto Deploy

Answer: A

Explanation:

Reference: https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.esxi.install.doc/GUID-0813B4BE- 485D-4129-902B-49AA42EBF54E.html

Question: 104

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: B,E

Question: 105

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

Answer: A,B

Explanation:

Reference: https://core.vmware.com/resource/troubleshooting-vsan-performance

Question: 106

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: D

Question: 107

Following a company merger, there are two data centers running vSphere environments.

Both data centers are leveraging separate Layer 3 vMotion networks.

Which requirement must be met in order to enable vMotion migration between these locations?
A. The vMotion service must be configured on the Management VMkernel adapter
B. A dedicated TCP/IP stack for vMotion with a dedicated gateway must be configured
C. A stretched vMotion network must be configured between data centers
D. Virtual machines must be powered off in order to migrate them between data centers

Answer: B

Question: 108

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: B

Explanation:

Reference: https://www.vmware.com/pdf/vmware-validated-design-20-reference-architecture-guide.pdf (116)

Question: 109

Refer to the exhibit.

During a requirements gathering workshop, a customer shares the following diagram regarding their availability service-level agreements (SLAs):
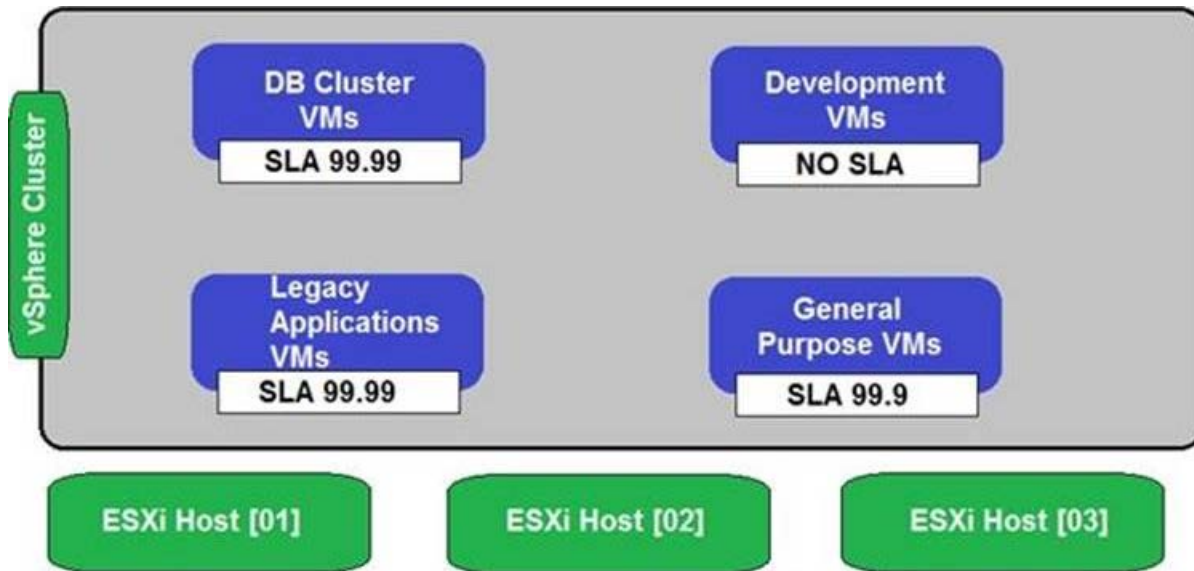
The customer states that there is no application level availability for legacy applications.

Which recommendation could the architect make to meet the customer's high availability requirements for the legacy applications virtual machines?
A. Enable vSphere HA and add a VM Override with VM Restart Priority set to Disabled
B. Enable Fault Tolerance
C. Achieve application availability with snapshots
D. Enable vSphere HA and add a VM Override with VM Restart Priority set to Lowest

Answer: A

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

Each ESXi host has a single physical NIC with two 10 Gbps ports.

There is a performance-based service-level agreement (SLA) that guarantees 15 Gbps bandwidth for production virtual machines at all times.

There is no budget to purchase additional hardware.

The hardware replacement SLA is based on a delivery agreement of two business days.

Which recommendation for the configuration of vSphere High Availability (HA) should the

architect include in the design?
A. Configure vSphere HA
Configure % based admission control Configure two isolation addresses
Consider an OEM with NIC failure conditions in their Proactive HA plugin
B. Configure vSphere HA
Set das.IgnoreRedundantNetWarning to true
Consider an OEM with NIC failure conditions in their Proactive HA plugin
C. Configure vSphere HA
Configure two existing data stores for heartbeat
Consider an OEM with NIC failure conditions in their Proactive HA plugin
D. Configure Proactive HA Automation Level: Automated
Remediation: Maintenance mode for all failures
Consider an OEM with NIC failure conditions in their Proactive HA plugin

Answer: A

SAMPLE QUESTIONS

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