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Exam A

QUESTION 1

In a stretched vSAN cluster, how is Read Locality established after fail over to the secondary site?

- A. 100% of the reads comes from vSAN hosts on the local site
- B. 50% of the reads comes from vSAN hosts on the local site
- C. 100% of the reads comes from vSAN hosts on the remote site
- D. 50% of the reads comes from vSAN hosts on the remote site

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.vmware.com/files/pdf/products/vsan/vmware-virtual-san-6.1-stretched-cluster-guide.pdf> (45)

QUESTION 2

In a vSAN stretched cluster, which value must be set in the vSAN policy if there is no requirement for data mirroring across sites?

- A. SFTT = 0
- B. SFTT = 1
- C. PFTT = 1
- D. PFTT = 0

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.delltechnologies.com/asset/en-us/products/converged-infrastructure/technical-support/h15275-vxrail-planning-guide-virtual-san-stretched-cluster.pdf> (5)

QUESTION 3

An architect needs to automate an infrastructure that supports VMware Horizon as well as VMware Tanzu.

Which solution mandates the use of VMware vSAN?

- A. VMware Cloud Foundation
- B. VMware Horizon
- C. VMware Tanzu
- D. VMware vRealize Automation

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.vmware.com/products/vrealize-automation.html>

QUESTION 4

An administrator is setting up vSAN file services on a vSAN cluster.

Which two security policies on the distributed port groups are automatically enabled in the process? (Choose two.)

- A. Forged Transmits
- B. Promiscuous Mode
- C. DVFiltering
- D. Jumbo Frames
- E. MacLearning

Explanation/Reference:

Reference: <https://www.yellow-bricks.com/2020/04/15/vsan-file-services-considerations/>

QUESTION 5

An administrator has been tasked to reboot a node in an encrypted vSAN cluster. The vSAN disk groups on that node become locked after rebooting the node.

Which step should be performed to exit the locked state?

- A. Manually replace the Host Encryption Key (HEK) of each affected host.
- B. Restore the communication with the KMS server, and re-establish the trust relationship.
- C. Replace the caching device in each affected disk group.
- D. Run `/etc/init.d/vsanvdp restart` to rescan the VASA providers.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.vsphere.vsan-monitoring.doc/GUID-084B3888-499F-4CD0-8954-A149560B1534.html>

QUESTION 6

A customer is planning to deploy a vSAN cluster to host their in-house distributed ERP system. The hardware specifications for their server nodes include:

- 2 x Intel Xeon CPU E5-2697 v3 @ 2.60GHz
- 1TB memory

Which boot device is supported for the vSAN ESXi nodes for this customer?

- A. A 16GB single-level cell (SLC) SATADOM device must be used.
- B. A 4GB USB or SD device must be used.
- C. A 16GB multiple-level cell (MLC) SATADOM device must be used.
- D. ESXi Hosts must boot from a PMEM device.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 7**

A company hosts a vSAN 7 stretched cluster for all development workloads. The original sizing of a maximum of 250 concurrent workloads in the vSAN cluster is no longer sufficient and needs to increase to at least 500 concurrent workloads next six months.

To meet this demand, the original 8-node (4-4-1) cluster has recently been expanded to 16 nodes (8-8-1).

Which three additional steps should the administrator take to support the current growth plans while minimizing the amount of resources required at the witness site? (Choose three.)

- A. Add the new vSAN witness appliance to vCenter Server.
- B. Deploy a new large vSAN witness appliance at the witness site.
- C. Configure the vSAN stretched cluster to use the new vSAN witness.
- D. Deploy a new extra large vSAN witness appliance at the witness site.
- E. Upgrade the vSAN stretched cluster to vSAN 7.0 U1.
- F. Configure the new vSAN witness as a shared witness appliance.

Correct Answer: BCF

Section: (none)

Explanation

Explanation/Reference:

Which two causes explain this behavior? (Choose two.)

- A. The cluster DRS threshold has been set to Aggressive.
- B. There is a vSAN node failure.
- C. The vSAN Resync throttling is enabled.
- D. The object repair timer value has been increased.
- E. The vSAN policy protection level has changed from FTT=0 to FTT=1.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Reference: https://core.vmware.com/resource/troubleshooting-vsan-performance#_Toc536646878

QUESTION 9

An administrator wants to check the performance metrics for the workloads and their virtual disks that are running on a vSAN cluster, but no statistical charts are displayed in the vSphere client.

Why is this behavior being seen?

- A. vSAN network diagnostic mode is not enabled.
- B. vSAN proactive tests haven't been run yet.
- C. vSAN performance service is turned off.
- D. vSAN performance verbose mode is not enabled.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Some tools allow for measuring latency peaks. This unfortunately isn't ideal, as it can unfairly represent statistical outliers, which may very well occur when there is little to no I/O activity. The best way to understand the actual behavior application latencies is to observe in time based performance graphs. Depending on the level of detail, you may need to measure at the individual VMDK level. Become familiar with these graphs to determine what is normal, and what given application. This is where you can use built-in functionality of vCenter and the vSAN performance service metrics to gather this information.

Reference: https://core.vmware.com/resource/troubleshooting-vsan-performance#_Toc536646873

QUESTION 10

During a maintenance action on a vSAN node, a vSAN administrator noticed that the default repair delay time is about to be reached.

Which two commands must be run to extend the time? (Choose two.)

- A. `/etc/init.d/vsanmgmtld restart`
- B. `esxcli system settings advanced set -o /VSAN/ClomRepairDelay -i 50`
- C. `esxcli system settings advanced set -o /VSAN/ClomRepairDelay -i 80`
- D. `/etc/init.d/clomd restart`
- E. `/etc/init.d/vsanobserver restart`

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://kb.vmware.com/s/article/2075456>

QUESTION 11

An administrator wants to deploy a desktop and application virtualization solution on top of vSAN.

Which VMware product should the administrator install?

D. VMware Horizon

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.vmware.com/products/horizon/horizon-vsan.html>

QUESTION 12

An administrator has been tasked with enabling encryption for existing virtual machines on a vSAN cluster.

Which three prerequisites must be satisfied before completing the task? (Choose three.)

- A. Create an encryption storage policy
- B. Enable Data-In-Transit encryption first
- C. Enable that the virtual machines are powered on
- D. Verify if a role with privilege "Cryptographic operations.Encrypt new" is assigned
- E. Verify if a role with privilege "Cryptographic operations.Migrate" is assigned
- F. Establish a trusted connection with the KMS

Correct Answer: CDF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

Upon checking the latency goal under vSAN performance diagnostics, the vSAN Administrator sees this message displayed:

The increase in latency in the vSAN stack might be beyond expected limits.

Which two root causes can be identified to help remediate the issue? (Choose two.)

- A. vSAN VMKernel portgroup is configured with the "Route based on IP hash" teaming policy
- B. vSAN encryption is enabled
- C. Large packet losses and retransmissions on the network layer
- D. Incorrect sizing of the disk groups capacity disks
- E. One or more disk groups are congested

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://kb.vmware.com/s/article/2150018>

QUESTION 14

An architect is designing for a production vSAN cluster, and the customer introduced these requirements related to File Services:

- A minimum of 12 files shares.
- 30TB NFS capacity to mount workload VMs.

What should be the architect's recommendations?

- A. Point out the risks regarding putting the hosts in maintenance mode in terms of FSVM.
- B. Confirm on all of the requirements and move forward with the physical design.
- C. Raise concerns regarding support when running VMs on an NFS share as risk.
- D. Highlight the required number of nodes required for the vSAN cluster as a constraint.

Explanation/Reference:

QUESTION 15

An administrator has received an alert indicating that a single capacity device is close to failing within the production vSAN Cluster. The administrator must now complete preemptive maintenance on the vSAN Cluster without impacting workloads or vSAN File Services.

The following information is known about the vSAN Cluster:

- vSAN 7.x Cluster
- vSAN node count: 8
- De-Duplication and Compression: Enabled.
- Encryption: Disabled
- Current Utilization: 45%
- Disk Groups: 2
- Devices per node: 2 x 400 GB SSD, 6 x 1.8 TB SSD

Which three steps should the administrator take to successfully complete the task? (Choose three.)

- A. Remove the affected Disk Group from the vSAN Cluster, and choose Full Data Migration.
- B. Replace the failed disk with a storage device that is identical in class and capacity.
- C. Remove the affected Disk Group from the vSAN Cluster, and choose No Data Migration.
- D. Replace the failed disk with a storage device that is identical in class but smaller in capacity.
- E. Put the affected vSAN host into maintenance mode to physically replace the storage device.
- F. Remove the affected Disk from the Disk Group, and choose Full Data Migration.

Correct Answer: ABF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

A 30-minute power maintenance window has been approved on Sunday. Due to a delay, the maintenance took 20 minutes longer to finish.

During this time, the vSAN administrator noticed that one of the clusters nodes was affected by a power shortage, as it was connected to an affected power source. The default vSAN storage policy has been applied.

What will be the status of the vSAN objects on the affected host immediately after it is recovered?

- A. The cluster will be partitioned and the vSAN host will need to be rejoined.
- B. A rebuild of the affected objects will occur.
- C. All objects will remain accessible.
- D. All objects on the affected host will be lost.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

Due to the success of the recently deployed developer-only private cloud solution, a company has a new requirement to at least double the usable capacity in their all-flash vSAN cluster.

The vSAN cluster is deployed into a co-located datacenter that is owned by a third-party hosting company. The hosting company charges a fixed monthly cost for rack space and power consumption. The service owner has been given a budget for additional hardware purchases, but not for on-going co-location costs.

The current vSAN cluster has the following configuration:

- 10 vSAN Nodes with 2 CPUs (20 cores), 512 GB RAM
- 1 Disk Group per vSAN node

- vSAN Capacity is currently:
 - Total: 72 TB
 - Usable: ~40 TB (FTT1/RAID1) and ~60 TB (FTT1/RAID5).

As a result of any action taken, the service owner would like to ensure that overall availability of the vSAN cluster is increased.

Which two recommendations meet the requirement to increase capacity while maintaining service availability? (Choose two.)

- A. Install an additional 400 GB SSD and 4 x 1.8 TB SSDs per vSAN node.
- B. Update the existing Disk Group, and claim the newly installed drives for each node.
- C. Create a new Disk Group, and claim the newly installed cache and capacity SSD drives for each node.
- D. Install an additional 3 x 1.8 TB SSDs per vSAN node.
- E. Replace existing SSDs with an 800 GB SSD and 4 x 3.8 TB SSDs per vSAN node.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

After a vSAN Witness Appliance network configuration, the vSAN administrator notices that vSAN traffic flows from vmk0 (Management Traffic) rather than vmk1 (vSAN Traffic).

Which step should be taken to resolve this issue?

- A. Configure vmk0 with IP address on the same range as that of vmk1.
- B. Tag the vmk0 for vSAN traffic.
- C. Configure vmk1 with IP address on the different network than that of vmk0.
- D. Tag the vmk1 for Witness traffic.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation

If both vmk0 and vmk1 are configured on the same range, a multihoming condition will occur and vSAN traffic will flow from vmk0, rather than vmk1.

Reference: <http://www.vmwarearena.com/vsan-stretched-cluster-how-to-configure-vsan-witness-appliance/>

QUESTION 19

A customer has upgraded to vSAN 7, but there is still an existing legacy host which must be removed from the vSAN cluster.

Which three steps must an administrator take to successfully remove this host from the vSAN cluster? (Choose three.)

- A. Place the host in maintenance mode with Ensure Accessibility
- B. Disconnect from vCenter Server
- C. Place the host in maintenance mode with Full Data migration
- D. Place the host in maintenance mode with no data migration
- E. Remove from vSAN cluster
- F. Delete the disk group(s) on the legacy host

Correct Answer: CEF

Section: (none)

Explanation

Explanation/Reference:

Reference: <http://www.vexpertconsultancy.com/2019/06/step-by-step-remove-a-node-permanently-from-a-vsan-cluster/>

- Enable Deduplication and Compression.
- Use the minimum number of hosts in the cluster.
- Maintain full storage policy compliance when two nodes are down.

Which vSAN cluster design meets the customer's requirements?

- A. Five nodes All-Flash vSAN cluster
- B. Six nodes All-Flash vSAN cluster
- C. Six nodes Hybrid vSAN cluster
- D. Five nodes Hybrid vSAN cluster

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.vmware.com/files/pdf/products/vsan/vmware-vsan-62-space-efficiency-technologies.pdf>

QUESTION 21

An administrator is tasked with setting up Kerberos authentication only for the vSAN File services.

Which version of Kerberos must be selected if the NFS version is v4.1?

- A. krb5i
- B. krb4
- C. krb5
- D. krb5p

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://core.vmware.com/resource/best-practices-running-nfs-vmware-vsphere>

QUESTION 22

An administrator wants to enable encryption on an existing vSAN cluster that already contains virtual machines.

Which additional step should the administrator take to ensure no data is lost during the encryption process?

- A. Select 'Erase disks before use' check box when enabling encryption on a vSAN cluster.
- B. Make vCenter Server trust the KMS, either by trusting the KMS or by uploading a KMS certificate.
- C. Ensure that the vSAN Encryption is enabled by default on the existing cluster to encrypt old and new data.
- D. Disable vSphere Distributed Resources Schedule (DRS) on the vSAN cluster.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://core.vmware.com/resource/vsan-data-rest-encryption#sec7014-sub2>

QUESTION 23

An organization has two vSAN clusters managed by the same vCenter Server, each providing 100TB of storage. The first cluster runs at 75% of its storage capacity, and the second cluster runs at 50% of its storage capacity.

The company also has the following:

- An iSCSI array of 300TB, which runs at 76% of its capacity
- A NAS system of 200TB, which runs at 10% of its capacity
- A Fiber channel (FC) array of 300TB, which runs at 80% of its capacity

- A. Create an HCI Mesh using the first cluster's datastore.
- B. Obtain additional free capacity from the existing NAS storage.
- C. Obtain additional free capacity from the existing FC storage.
- D. Create an HCI Mesh using the second cluster's datastore.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

Which statement accurately describes the result when proper VM Storage Policy Affinity Rules on a stretched vSAN cluster are set?

- A. When a site is disconnected, the VM will lose access to its VMDK.
- B. When a site is disconnected, the VM will continue to have access to its VMDK.
- C. Bandwidth is unnecessarily sent across the inter-site link.
- D. Proper policies result in higher inter-site bandwidth utilization.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

A cache disk failure marked a vSAN disk group as failed, and the data is being rebuilt on other disk groups.

Which action should the vSAN administrator take to reduce the negative impact on the VMs?

- A. Enabling Resync Throttling
- B. Enabling Maintenance mode with no data evacuation
- C. Enabling automatic rebalance
- D. Setting the vSAN policy's IOPS limit for object value to 0 (unlimited)

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

An architect is tasked to design a VMware Horizon Solution with vSAN. The architect needs to use a solution to host the user's profile shares in a highly available manner, and it must be guest OS independent.

Which solution will match these requirements?

- A. Cluster out of the box
- B. Cluster in a box
- C. NFS on vSAN
- D. iSCSI on vSAN

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Which three recommendations should the architect provide to address an event of a network partition between two sites? (Choose three.)

- A. Host isolation response must exclude the VMs required
- B. The default gateway must be used as the only isolation address
- C. One of isolation addresses should reside in the site 1 data center
- D. VMware vSphere DRS rules to force the VMs to run where the data resides
- E. One isolation address reachable only from the witness appliance in both sites
- F. One of isolation addresses should reside in the site 2 data center

Correct Answer: ADF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

An 8-Node vSAN Stretched Cluster (4+4+1) with a single disk group has a policy with PFTT=1 (mirrored across sites) and SFTT=1/FTM Mirroring (Local Protection) configured.

The administrator has been alerted that there is a problem with the cluster. The following has been observed:

- The vSAN Witness Host is offline.
- Two disk failures on two hosts have occurred in the preferred site.

This has resulted in a critical production virtual machine's vmdk becoming inaccessible.

Which step needs to be performed by the administrator to resolve the issue?

- A. Replace all failed disks on the preferred site.
- B. Replace the vSAN Witness Host
- C. Replace access to the existing vSAN Witness Host
- D. Replace only one failed disk on the preferred site.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

An administrator is tasked to create a custom storage policy for workloads and is including additional disk stripes while defining the storage policy.

What is the main purpose of this practice?

- A. To increase available storage space
- B. To set a failure tolerance
- C. To improve performance
- D. To reconstruct corrupted data

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

An architect collected the below technical requirements from the customer during a vSAN cluster design workshop:

- A. One disk group per host, with one cache tier flash disk and four capacity tier flash disks.
- B. Two disk groups per host, each with one cache tier flash disk and four capacity tier flash disks.
- C. Two disk groups per host, each with one cache tier flash disk and six capacity tier flash disks.
- D. Two disk groups per host, each with one cache tier flash disk and six capacity tier magnetic disks.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

An architect is working with an All-Flash vSAN configuration and will be using the Flash Caching Devices in vSAN.

Which requirement is specifically needed for these devices?

- A. Write endurance
- B. IOPS
- C. Read endurance
- D. Capacity

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vsan-planning.doc/GUID-1D6AD25A-459A-43D6-8FF5-52475499D6A2.html>

QUESTION 32

An administrator is tasked with migrating a VMware Horizon View environment that is currently running on an NFS Datastore to VMware vSAN.

Which Horizon configuration option will not be available when configuring vSAN in Horizon View?

- A. Instant Clones
- B. Linked Clones
- C. Storage Tiers
- D. Storage Profiles

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

An administrator managing a vSAN cluster of six-nodes with policy FTT-2/RAID-6 decided to put one of the nodes in maintenance mode using the "Full-data migration" option.

What will happen after this action is taken?

- A. The host will enter in maintenance mode and the data will remain accessible until the host exits maintenance mode.
- B. The system will prompt to add an additional host to the cluster in order to preserve the policy compliance.
- C. The host will enter in maintenance mode and only data with no redundancy will remain accessible.
- D. The host will enter into maintenance mode if both components of a certain object are residing on that host, then one of the components will be moved to another available host.

Correct Answer: A

Section: (none)

QUESTION 34

A 4-node vSAN cluster is configured with an erasure coding storage policy. The Ensure Accessibility maintenance mode was selected. While performing the maintenance, a second node fails.

What will be the impact on the vSAN cluster?

- A. There will be no impact on performance.
- B. The VMs will no longer be accessible.
- C. The performance will be degraded.
- D. The VMs will be in a suspended state.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.vsphere.virtualsan.doc/GUID-521EA4BC-E411-47D4-899A-5E0264469866.html>

QUESTION 35

An architect is working with vSAN and setting the fault domains to support FTT=1.

How many fault domains will be needed?

- A. 2
- B. 3
- C. 4
- D. 1

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vsan-planning.doc/GUID-FE7DBC6F-C204-4137-827F-7E04FE88D968.html>

QUESTION 36

An administrator has an absent capacity disk.

Which action, if any, should the administrator take to resolve the problem?

- A. Wait, and vSAN will rebuild it.
- B. Replace the faulty disk.
- C. Replace the faulty host.
- D. Verify the host is not isolated.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

A customer is planning to migrate their physical Microsoft SQL Server clustered workloads to vSAN enabled vSphere clusters.

The following requirements must be met:

- Each MSSQL cluster is made up of 3 nodes
- Highest possible availability against node failures
- Some of the vSAN clusters will only consume storage

- C. vSAN Direct
- D. vSAN File Services

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://kb.vmware.com/s/article/2147661>

QUESTION 38

A company has engaged a consultant to upgrade an existing vSAN cluster to vSAN 7.0 U1.

During the discovery phase, the consultant found the following information about the existing environment:

- The VMware vCenter Server has recently been upgraded from VMware vSphere 6.7 U3 to version 7.0 U1.
- The vSAN Cluster was recently expanded with identical hardware specification, but from a different hardware vendor.
- The hardware for each vSAN node is listed on the vSAN Compatibility Guide (VCG) for vSAN 7.
- The vSAN Cluster has the following configuration:
 - vSAN version: 6.6.1
 - Number of vSAN nodes: 10
 - Encryption: enabled
 - Deduplication and Compression: enabled
 - vSAN Capacity Utilization: 60%
- Each vSAN node has the following configuration:
 - VMware vSphere ESXi version: 6.5 Update 3
 - CPU: 2 processors, 20 cores
 - RAM: 768GB RAM
 - Disk: 2 Cache SSDs and 6 Capacity SSDs
 - Network: 4 x 10GbE

Which three recommendations should the consultant make to ensure all data remains protected in the event of a vSAN failure? (Choose three.)

- A. The Full data migration maintenance mode option must be chosen to protect the data during the upgrade.
- B. The Ensure accessibility, migration maintenance mode option must be chosen to protect the data during the upgrade.
- C. The upgrade process should be completed using host upgrade baselines in VMware vSphere Lifecycle Manager (vLCM).
- D. The vSAN nodes should be upgraded to vSphere ESXi 7.0 U1.
- E. The upgrade process should be completed using images in VMware vSphere Lifecycle Manager (vLCM).
- F. The vSAN nodes should be upgraded to vSphere ESXi 6.7 U3.

Correct Answer: BDE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

During a planning session for new vSAN clusters in multiple data centers, the customer relayed the following information:

- Highest possible mitigation during a host failure in terms of capacity.
- A constraint in this year's IT budget.

What should the architect recommend?

- A. Enable operations reserve.
A minimum cluster of 3 vSAN nodes.

- D. Enable IOInsight Metrics.
A minimum cluster of 2 vSAN ROBO nodes.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

A company has engaged a consultant to upgrade an existing vSAN cluster to vSAN 7.0 U1. The company wants to ensure that the same vSAN process can be used in the future.

During the discovery phase, the consultant found the following information about the existing environment:

- The vCenter Server is currently version 7.0.
- The vSAN Cluster has the following configuration:
 - vSAN version: 7.0
 - Number of vSAN nodes: 6
 - Encryption: enabled
 - Deduplication and Compression: enabled
 - Fault Domains: 1
 - vSAN Capacity Utilization: 60%
- Each vSAN node has the following configuration:
 - ESXi version: VMware vSphere 7.0
 - CPU: 2 processors, 20 cores
 - RAM: 1024GB RAM
 - Disk: 2 Cache SSDs and 6 Capacity SSDs
 - Network: 4 x 10GbE
- All current hardware (which is from a single vendor) is listed on the vSAN Compatibility Guide for vSAN 7.

Which three recommendations should the consultant make to ensure that the vSAN cluster upgrade is completed? (Choose three.)

- A. Upgrade all vSAN nodes to VMware vSphere 7.0 U1 using the baselines capability within VMware Update Manager (VUM).
- B. Disable vSAN Encryption before starting the upgrade process.
- C. Upgrade all vSAN nodes to VMware vSphere 7.0 U1 using the images capability within VMware Update Manager (VUM).
- D. Set VMware Distributed Resource Scheduling (DRS) to partially automated.
- E. Upgrade to VMware vCenter Server 7.0 U1.
- F. Choose the Allow reduced redundancy option.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

An administrator of "vsan-prod" cluster noticed the witness components of VMs are flagged as absent after a failed attempt to replace the vSAN Witness Host.

Which action should the administrator take to resolve this issue?

- A. Upgrading the vSAN on-disk format
- B. Running the vSAN Skyline Health check to ensure there are vSAN Object Health errors and executing the Repair Object Immediately option
- C. Using the RVC command: `vsan.resync dashboard ~/computers/vsan-prod`
- D. Placing the vSAN Witness Host in Maintenance Mode and adding to the vSAN cluster

Correct Answer: D

Section: (none)

Explanation

An architect is designing a vSAN cluster.

Which storage controller option will yield optimal performance?

- A. High queue depth
- B. Set caching to 50% read on the controller
- C. Enable battery write-back caching
- D. RAID 0

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

An administrator is planning to deploy cloud-native workloads onto the vSAN Direct datastore.

Which storage policy structure rule is supported?

- A. Host-based rules
- B. vVOL storage rules
- C. Tag-based placement rules
- D. Storage performance-based rules

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 44

An administrator is planning to change a vSAN Storage Policy to apply a Failures To Tolerate (FTT) of 2, using RAID-6.

What is the minimum number of vSAN nodes required?

- A. 6
- B. 4
- C. 5
- D. 8

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.vmware.com/en/VMware-Cloud-on-AWS/services/com.vmware.vsphere.vmc-aws-manage-data-center-vms.doc/GUID-EDBB551B-51B0-421B-9C44-6ECB66ED660B.html>

QUESTION 45

An administrator is planning to deploy workloads on a six node vSAN cluster, and all nodes are distributed equally across three racks.

Which action is required to ensure that the workload VMs remain compliant with the default vSAN policy after a complete rack failure?

- A. Add an additional rack with two hosts, and configure vSAN with four fault domains and FTT=1 (erasure coding).
- B. Add two additional hosts per rack, and configure vSAN with three fault domains and FTT=1.
- C. Add an additional host per rack, and configure vSAN with three fault domains and FTT=2.
- D. Add an additional rack with two hosts, and configure vSAN with four fault domains and FTT=1 (mirroring).

Explanation/Reference:

QUESTION 46

A company has deployed a 12-node (6-6-1) vSAN 7.0 stretched cluster for all production workloads.

The customer currently uses four different vSAN storage policies for running the workloads depending on the applications requirements:

- Policy 1 - Site Disaster Tolerance=Dual Site Mirroring, FTT=Erasure Coding
- Policy 2 - Site Disaster Tolerance=Dual Site Mirroring, FTT=Mirroring
- Policy 3 - Site Disaster Tolerance=None - Keep Data on Preferred, FTT=Mirroring
- Policy 4 - Site Disaster Tolerance=None - Keep Data on Non-Preferred, FTT=Mirroring

During the setup of the vSAN stretched cluster, the following VM/Host Rules were created:

- Preferred Site - Preferred Site workloads should run on DC1 hosts.
- Secondary Site - Secondary Site workloads should run on DC2 hosts.

Which two activities should the administrator complete to ensure that there is no impact to production services during the maintenance window in the Preferred Site? (Choose two.)

- A. Change the Site Disaster Tolerance setting in Policy 3 to be "Dual Site Mirroring".
- B. Update vSphere DRS site affinity rules so that Preferred Site workloads should not run on hosts in DC1.
- C. Change the Site Disaster Tolerance setting in Policy 4 to be "None - Keep Data on Preferred".
- D. Change the FTT setting in Policy 3 to be "Erasure Coding".
- E. Update vSphere DRS site affinity rules so that Preferred Site workloads must run on hosts in DC2.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:



QUESTION 47

An administrator wants to deploy Kubernetes on an end-to-end VMware stack, using VMware vSAN for storage.

Which VMware product should the administrator install as the Kubernetes platform choice?

- A. VMware Tanzu Kubernetes Grid
- B. VMware Tanzu Data services
- C. VMware Tanzu Build service
- D. VMware Tanzu Mission Control

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://blogs.vmware.com/vov/2020/04/03/vmware-its-tanzu-kubernetes-grid-on-vsan/>

QUESTION 48

An administrator is tasked with preparing for a Cross vCenter migration in a stretched vSAN cluster where the virtual machines migration will be orchestrated via VMware Site Recovery Manager.

Which action should the administrator take so the migration is successful?

- A. Disable vSAN Deduplication and Compression
- B. Reconfigure vCenter HA Admission control
- C. Enable vCenter Single Sign-On Enhanced Linked Mode
- D. Make sure that Witness traffic is on the management NIC.

Reference: <https://docs.vmware.com/en/Site-Recovery-Manager/8.4/com.vmware.srm.admin.doc/GUID-B64096E8-F49A-4BF6-92CE-05FBA972F3C0.html>

QUESTION 49

An architect is designing a new Hybrid five node vSAN cluster for a customer who is planning to use vRealize Automation to provision 600 virtual machines into that cluster, with expected growth up to 1,000 VM. Each VM has a 40GB thin disk.

Which flash disk size is required for the cache tier per ESXi node to meet all requirements?

- A. 400GB
- B. 700GB
- C. 600GB
- D. 800GB

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

An administrator is tasked with sharing storage from one vSAN cluster to another vSAN cluster. SPBM management must be preserved end-to-end, and the policy must be applied by the source vSAN cluster which is storing the data. B are managed by the same vCenter server.

What should the administrator configure?

- A. NFS volumes on vSAN
- B. iSCSI targets on vSAN
- C. HCI Mesh on vSAN
- D. vVOLS on vSAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

