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QUESTION 1

An administrator needs to make sure an RF2 cluster can survive a complete rack failure without negatively effecting workload performance. The current cluster configuration consists of the following:

30 nodes: distributed 10 nodes per rack across three 42U rack

Each nodes is configured with 40TB usable storage all flash (Cluster Total 1.2 PB Usable)

Current cluster utilization is 900TB storage

Which configuration changes should be made to make sure that the cluster meets the requirements?

A. Expanse the cluster by adding 3 additional nodes per rack, 9 nodes total.

B. Expanse the cluster by adding 2 additional nodes per rack, 6 nodes total.

C. Expanse the cluster by adding 9 nodes to a new 42U rack

D. Expanse the cluster by adding 8 nodes to a new 42U rack

Correct Answer: A

QUESTION 2

A customer recently set up Async Replication between Site A and Site B. The customer wants to conduct a planned failover and clicks Activate on Site B. The customer then runs the following command on Site A: ncli pd

deactivate_and__destroy_vms name=.

What does this do to the customer environment?

A. VMs get deleted from Site B and the protection domain is now Active.

B. VMs are powered off on Site A and must be manually powered on at Site B.

C. VMs get deleted from Site A and the protection domain is no longer active.

D. Customer must then manually power off VMs at Site A and power them on at Site B.

Correct Answer: C

```
<ncli> pd deactivate_and_destroy_vms name=DataProtection
Use this command only when you are preparing to do a failback from an unplanned
failover. Executing this command will delete the VMs from this site and might ca
use data loss when used incorrectly. Are you sure (y/N)?: Error: Mode change for
 protection domain DataProtection failed with error: Canno
t deactivate protection domain DataProtection because 1 VM(s) (POC_DEMO) are Pow
ered ON
```

QUESTION 3

While creating an image placement policy on the organizations AOS 5.15-based Nutanix cluster, the administrator wants to ensure there are no restrictions on using the selected images on clusters outside of the identified set. What type of Policy Enforcement must the administrator choose?

A. Soft

B. Internal

C. Hard

D. External

Correct Answer: A

QUESTION 4

An administrator recently added VLAN 205 CRM in Prism Element. The workloads attached to the associated NICs are unable to establish network connectivity.

Which Layer 2 protocol allows the administrator to troubleshoot this issue from Prism Element?

A. HDLC

B. SUP

C. LACP

D. LLDP

Correct Answer: D

Switch information on Nutanix AHV

Managing and troubleshooting virtual guests\' network connectivity issues is quite difficult, if you do not have right information about upstream switches. It is crucial to understand how Nutanix hosts are connected, hosting switch name,

location, switch port number. Nutanix AHV leverages OVS (Open VSwitch) to manage AHV hosts and Guest OS network connectivity. OVS can use LLDP (Link Layer Discovery Protocol) to pull information from physical switches. LLDP is

automatically enabled on Nutanix AHV. To have LLDP discovery working you have to enable it on the network port

switches as well. Nutanix AHV will automatically pull switch information and present it in the Prism.

In Prism Element, on main dashboard click on Home -> Network

QUESTION 5

An administrator needs to relocate an AHV cluster to a new datacenter during a maintenance window. The cluster will use the same IPs in the new datacenter.

Which two steps should be taken to prepare for this task? (Choose two.)

A. Stop all Nutanix Files clusters

B. Relocate the linked LDAP servers

C. Shut down all user VMs in the cluster

D. Reconfigure IPMI for the new datacenter

Correct Answer: AC

Reference: https://next.nutanix.com/installation-configuration-23/physical-relocation-of-nutanix-clusters-38403

QUESTION 6

Microsegmentation was recently enabled in a Nutanix environment. The administrator wants to leverage Prism Central to create a policy that will block all traffic, regardless of direction, between two groups of Vms identified by their category. Which policy should be used to meet this requirement?

A. A Quarantine Policy

B. An Isolation Environment Policy

C. An Application Security Policy

D. A Whitelist-Based Policy

Correct Answer: B

QUESTION 7

A customer needs a DR solution designed around the following requirements: There are 8 ms of latency between Sites A and B The administrator needs the shortest RPO/RTO possible Application consistent snapshots are required Use of Nutanix VSS

Which Data Protection Method should be used?

A. Async

B. Metro Availability

C. Near Sync

D. Cloud Connect

Correct Answer: C

QUESTION 8

A new Nutanix cluster is ready for production on a remote site with no IT staff. Changes to the infrastructure will cost money and probably cause a cluster stop.

The administrator needs to perform a health check on the environment that should include: Network connectivity checks Network performance status Storage performance status

Which tool should be used to perform this test?

A. X-Ray

B. curator_cli

C. NCC

D. diagnostic, py

Correct Answer: C

QUESTION 9

An administrator is managing multiple Windows and Linux VMs connected to Nutanix Volumes. The Linux VMs are experiencing intermittent connectivity issues. The Windows VMs do not experience the same issue.

Which option should the administrator use to resolve this issue?

A. Utilize Jumbo Frames

B. Add additional disks to the Volume Group

C. Set the SCSI timeout value to 60

D. Utilize a separate subnet for the Linux VMs

Correct Answer: C

QUESTION 10

An administrator needs to create and start five new VMs for a Data Analytics Project (OLAP). The VM Profile is as follows: vCPU:4 vRAM: 64 GB vDisk: 1.5 TB

Each of the four nodes of the Nutanix cluster has the following: 24 vCPU. 20% overall usage 192 GB RAM, 60% overall usage 2 x l920 GB SSD 4 x 2 TB HDD

At cluster level, there is a single RF2 container that is 30% utilized and has an extent store capacity of 13.5 TB.

Which component requires administrator attention?

A. Physical RAM, because it is not enough to power on all of the new VMs.

B. Physical Cores, because they are not enough to power on all of the new VMs.

C. Storage, because the capacity is not enough to create VMs.

D. Flash Tier because it is not enough to accommodate the workloads.

Correct Answer: A

QUESTION 11

An administrator is deploying an application using Nutanix Volumes. After configuring the volume group and connecting the guest\\'s iSCSI initiator to the volume group, they begin performance testing. The administrator learns that performance on the virtual disk attached to the iSCSI initiator is far less than that of a virtual disk connected directly to the VM.

Which situation is causing this condition?

A. The VM\\'s iSCSI traffic is being routed to the data services IP subnet

B. The performance test is generating small block random 10

C. The duster data services IP address is a bottleneck, shared with other iSCSI traffic

D. Data Locality ensures that VM attached disks are always faster than iSCSI volumes

Correct Answer: C

QUESTION 12

An administrator is responsible for the following Nutanix Enterprise Cloud environment: A central datacenter with a 20-node cluster with 1.5PB of storage Five remote sites each with a 4-node cluster with 200TB storage

The remote sites are connected to the datacenter via 1GB links with an average latency of 6 ms RTT.

What is the minimum RPO the administrator can achieve for this environment?

A. 0 minutes

B. 15 minutes

C. 1 hour

D. 6 hours

Correct Answer: B

QUESTION 13

An administrator receives reports about a Nutanix environment. The investigation finds the following;

VMs are experiencing very high latency

Each node is equipped with a single SSD, utilized at 95%

Each node is equipped with three HDDs, utilized at 40%

Why are the guest VMs experiencing high latency?

A. CVMs are overwhelmed by disk balancing operations.

B. All VM write operations are going to HDD.

C. All VM read operations are coming from HDD.

D. VMs are unable to perform write operations

Correct Answer: C

Latency Variables in a Nutanix Cluster

The following points provide you with the information regarding latency on a Nutanix cluster.

- All-flash-array nodes are provided by Nutanix, but the focus of this KB is on the two-tier (SSD and HDD) nodes. This two-tier design aims to keep frequently read data in the host (SSD) tier and Information Life Cycle Management (ILM) promotes and demotes the data from the hot tier. This provides a cost-effective solution that has variable latency response.

- Extent store : HDD and SSD together makes the extent store. However some portion of the SSDs is used for Oplog.

- Oplog: This is used for random writes where data is temporarily written and provides quick acknowledgement. This is eventually drained to an extent store.

- Cluster that are correctly sized will have a Working Set Size (WSS) that fits within the SSD tier. This ensures that the commonly accessed data on the cluster is available from the SSD. If ILM is moving data from hot to cold tier and back, it implies that the cluster is under sized and higher latencies will be experienced due to the higher cold-tier hit rate for the data reads.

- Data that is read from the cold tier (HDD - spinning disk) will have higher latency than the data that is read from the hot tier.

Reference: https://next.nutanix.com/how-it-works-22/disk-i-o-latency-on-a-nutanix-cluster-38349

QUESTION 14

An administrator needs to replace the self-signed certificate on a cluster. Which two requirements must be met as part of the process? (Choose two.)

A. The cluster administrator must restart the interface gateway.

B. The signed, intermediate and root certificates are chained.

C. The existing certificate must be deleted prior to replacement.

D. The imported files for the custom certificate must be PEM encoded.

Correct Answer: BD

QUESTION 15

An administrator is configuring software only. Data-at-Rest Encryption on their Nutanix cluster. They are planning to deploy a third-party key management server (KMS). Where should this server be hosted?

A. As a single VM on the Nutanix cluster

B. On hardware external to the Nutanix duster

C. As a clustered VM setup on the Nutanix cluster

D. As a single VM deployed on the host that contains the Prism leader CVM

Correct Answer: B