NCS-CORE^{Q&As}

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QUESTION 1

A consultant needs to review a customer\\'s switch port configuration to identify any issues. Other customer requirements are as follows:

*

 Leverage LACP

*

 Native VLAN will not be used

*

 Use Multiple Upstream switches

*

 Use VLANs 20-25 and 30

*

 LACP Fallback has been Enabled

*

 vPC or MLAG has been configured

What must be included in a configuration in order to meet these requirements?

A.

Native VLAN set to default Ports trucked to allow all necessary VLANs

B.

Native VLAN set to default Ports in access mode to allow all necessary VLANs

C.

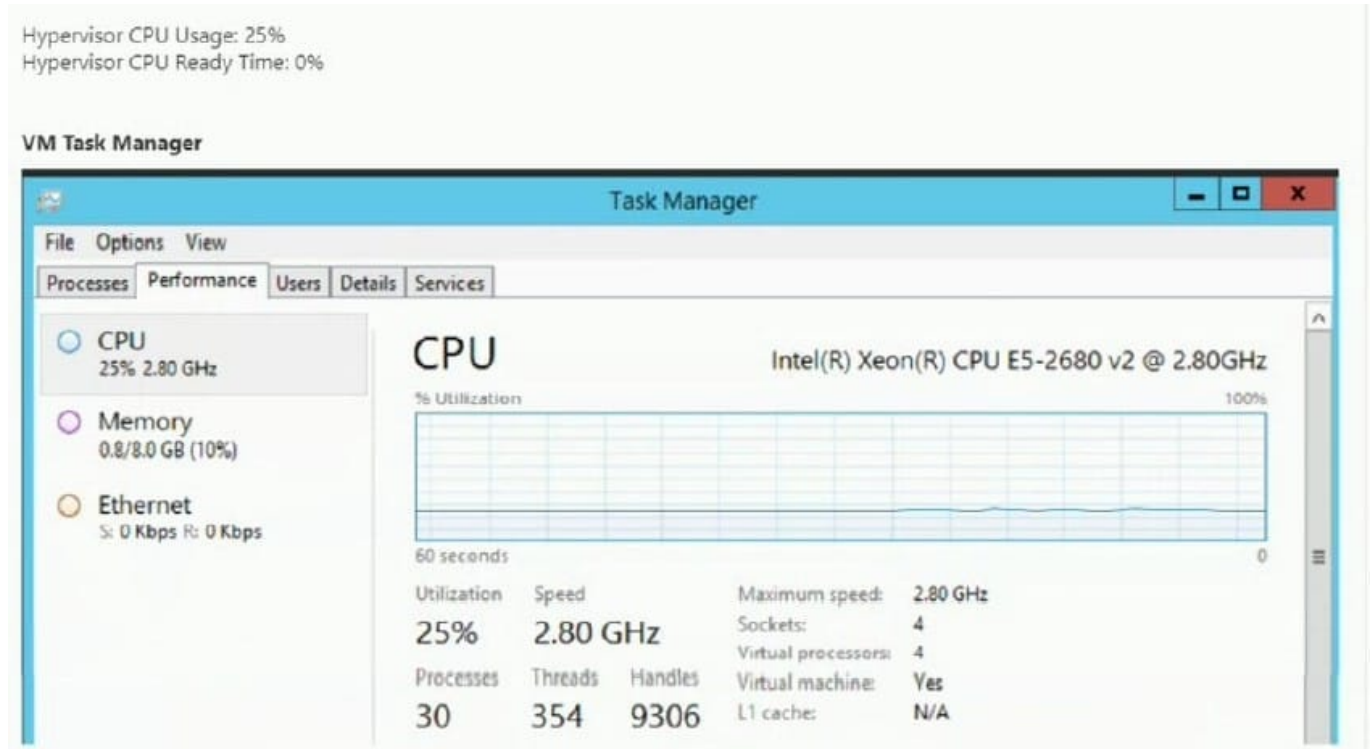Native VLAN set to 30 Ports Trunked to allow all necessary VLANs

D.

Native VLAN set to 30 Ports in access mode to allow all necessary VLANs

Correct Answer: A

QUESTION 2

Refer to the exhibits.

An administrator has reported that a new VM is not performing well.

Prism Element, VM Table Metrics

▲ VM Name	Host	IP Address	Cores	Memory Capacity	Storage	CPU Usage	Memory Usage	Controller Read IOPS	Controller Write IOPS	Controller IO Bandwidth	Controller Avg IO Latency	Backup ...	Flash Mode
...	PHX-POC014-	...	...	...	...	...	...	...	...	...	...	...	...

VM Name: NCNCAPVM
Cores: 4
Memory Capacity: 8GiB
Storage: 9.86 GiB / 40 GiB
CPU Usage: 25.85%
Memory Usage: 0%
Controller Read IOPS: 0
Controller Write IOPS: 0
Controller I/O Bandwidth: 13 KBps
Controller Avg IO Latency: 2.33ms
Backup ...: Yes
Flash Mode: No

Prism Element, Analysis Chart

NCNCAPVM: Memory Usage ▾   ■25.31% ■0%

Hypervisor CPU Usage: 25%
Hypervisor CPU Ready Time: 0%

VM Task Manager

Task Manager
File   Options   View
Processes | Performance | Users | Details | Services

○ CPU
  25% 2.80 GHz

○ Memory
  0.8/8.0 GB (10%)

○ Ethernet
  S: 0 Kbps R: 0 Kbps

CPU   Intel(R) Xeon(R) CPU E5-2680 v2 @ 2.80GHz
% Utilization   100%

60 seconds   0

Utilization   Speed   Maximum speed: 2.80 GHz
25%   2.80 GHz   Sockets: 4
                           Virtual processors: 4
Processes   Threads   Handles   Virtual machine: Yes
30   354   9306   L1 cache: N/A

After analyzing the information presented in the exhibits, which option shows the best conclusion regarding this workload?

A. VM is CPU constrained since the hypervisor cannot provide the required resources.

B. VM is CPU constrained because more CPU needs to be added to the VM.

C. VM is Storage constrained, because the workload is waiting for storage access.

D. VM is not CPU constrained, because the VM is not running, a multithreaded application.

Correct Answer: C

QUESTION 3

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 customcertificate must be PEM encoded.

Correct Answer: BD

Explanation: Ref:https://portal.nutanix.com/page/documents/details?targetId=Prism- Central-Guide-Prism-v55:mul- security-ssl-certificate-pc-t.html

QUESTION 4

To prepare for a new Nutanix installation, a consultant downloads the Foundation VM, imports the VM to their Desktop Virtualization Solution, and powers on the VM. The IPv4 static address on the host workstation and the Foundation VM have been configured, but pings between them fail.

Which two troubleshooting steps should the consultant perform? (Choose two.)

A. Remove and re-import the Foundation VM to ensure the virtual NIC is set to Host-Only.

B. Verify the virtual NIC in the Foundation VM is bound to the correct physical Host adapter.

C. Confirm the IP addresses and subnet masks are correct.

D. Verify the virtual NIC in the Foundation VM is bound to the correct wireless network adapter.

Correct Answer: BC

QUESTION 5

After uploading a hypervisor ISO during the Foundation process, a consultant sees a message that the MD5 sum for the hypervisor is not found in the Whitelist file. Which step should the consultant take next to resolve this issue?

A. Download the hypervisor ISO again from the vendor website.

B. Restart the Foundation process and upload the hypervisor again.

C. Download the latest hypervisor ISO whitelist file from Nutanix portal.

D. Check the hypervisor version in the Nutanix Compatibility Matrix.

Correct Answer: C

QUESTION 6

An administrator needs to migrate workloads from a Nutanix cluster running VMware ESXi to Nutanix AHV. The migration process needs to be completed in multiple VM groups and support roll back in caseany problems are found during user acceptance testing.

Which action should the administrator perform?

A. Use Cross Hypervisor DR to replicate VMs from ESXi to AHV

B. Use VMware Converter

C. Use Nutanix one-click cluster conversion from ESXi to AHV

D. Usestorage live migration

Correct Answer: C

Explanation: Ref:https://next.nutanix.com/installation-configuration-23/convert-existing- nutanix-vmware-cluster-to-nutanix-only-37600

QUESTION 7

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 8

A customer is running out of storage in an ESXi cluster. The customer wants to add storage without paying for an additional hypervisor license. Which option should the consultant recommend to meet the requirement?

A. Convert the cluster to AHV to support storage-only node requirements.

B. Select the storage-only checkbox during Foundation and then expand the cluster in Prism.

C. Buy a new node to meet the requirements of the storage-only node specifications.

D. Edit the factory_config.json file to configure the node as storage-only and then expand the cluster in Prism

Correct Answer: C

QUESTION 9

A customer wants to expand an existing cluster with three additional nodes. After running the Foundation process on the new nodes, the customer realizes that the wrong IPs where used and the nodes are configured on a different network. The customer decides to create a new cluster instead.

Which method should be used to recreate the cluster?

A. Log into IPMI and use cluster create command to create the cluster.

B. Log into CVM and use cluster create command to create the cluster.

C. Log into Hypervisor and use cluster create command to create the cluster.

D. Foundation all nodes again and create the cluster.

Correct Answer: B

QUESTION 10

An administrator migrates a VM onto a new Nutanix cluster. After the migration, the administrator observes the following conditions:

Cluster memory utilization: 64% Cluster CPU utilization: 19% Clusterstorage utilization: 32% Average VM CPU utilization: 25% Average VM CPU ready%: 24% Average VM memory utilization: 60%

Which two changes should the administrator make to improve VM performance? (Choose two.)

A. Add more memory to the VMs.

B. Reduce the number of vCPUs assigned to VMs.

C. Replace high core count CPUs with high clock rate CPUs. (also can be but is physical invas)

D. Reduce the number of VMs on the hosts.

Correct Answer: BD

Explanation: refhttp://www.joshodgers.com/tag/cpu-ready/

QUESTION 11

An administrator is planning to deploy a Nutanix cluster to support a few high-performance VMs. This deployment will have the followingconsiderations:

Individual VMs will likely generate network throughputs in the range of 90-100Mbps Due to the configuration of the VMs, it is unlikely that a node will host more than one or two of them at a time Individual VMs will communicatewith only a few (one or two) remote hosts at a time Multicast will not be used in the environment The hosts are connected via two 1GbE network connections

How should the administrator configure the network bonds to meet this requirement while maintaining the simplest switch configuration?

A. Configure bond0 as balance-sib

B. Configure bond0 as active-backup

C. Configure bond0 as balance-tcp

D. Configure bond0 as balance-lacp

Correct Answer: A

Ref:https://portal.nutanix.com/page/documents/solutions/details?targetId=BP-2071-AHV-Networking:top_ahv_networking_best_practices.html

QUESTION 12

A VDI environment based on AHV Cluster is not performing well. The current environment isusing only one bridge (Bridge0). The administrator needs to verify if nodes are using all network cards associated to Bridge0. Which two menus should be used to check the current configuration? (Choose two.)

A. Network Configuration item in Settings menu

B. Host view in Network menu

C. Host NICs tab in Hardware menu

D. I/O Metrics tab in VM menu

Correct Answer: BC

QUESTION 13

An administrator receives an alert in Prism indicating that interface eth2, on an AHV host is receiving many CRC errors. Aftertogging into the problematic host, the following command is run to show the indicated output: What is causing this issue?

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```
[root@AHV-Host ~]# ethtool -S eth2 | grep error
rx_errors: 0
tx_errors: 0
rx_over_errors: 0
rx_crc_errors: 478593
rx_frame_errors: 0
rx_fifo_errors: 0
rx_missed_errors: 0
tx_aborted_errors: 0
tx_carrier_errors: 0
tx_fifo_errors: 0
tx_heartbeat_errors: 0
rx_long_length_errors: 0
rx_short_length_errors: 0
rx_csum_offload_errors: 0
```

A. Incorrect link speeds on the switch

B. The interface is incorrectly configured with Jumbo Frames

C. A misconfigured bond

D. A physical layer network problem

Correct Answer: B

Explanation: Ref: rx_crc_errors are caused either by faults in layer 1 (in the past, we have seen failed twinax cables and incorrect types of fibre being used), or issues with jumbo frames on the network. In an environment with 10Gig switches that use cut-through forwarding (Cisco Nexus, Arista, Cisco devices using IOS default to Store and Forward switching), any packets that come into the switch will get forwarded out the destination interface once the switch has read the destination MAC address. If that packet has an MTU over what is configured on the interface, it will cut off the packet at the designated MTU, causing the server to receive a malformed packet, which will throw a CRC error. If you have a layer 1 issue, you will see rx_crc_errors, not on all but one or two nodes.

QUESTION 14

A Nutanix cluster is deployed with the following configuration:

Three four-nodeblocks (A, B, and C)

All Flash Redundancy Factor 2

What is the effect of simultaneous disk failures on two nodes located in block A?

A. VMs are migrated off of the nodes with disk failures.

B. Each node with a failed disk is marked as degraded.

C. VM read and write operations continue normally.

D. VMs on the nodes with failed disks are unable to write data

Correct Answer: C

Explanation: Ref:https://next.nutanix.com/how-it-works-22/redundancy-factor-vs- replication-factor-37486

Dual Disk Failures :

with Replication Factor = 2, we have two copies of each data block. Also, with a 4TB Disk which is only 1TB utilised, we will have 1TB worth of blocks/data across the cluster (shorter rebuild times as we factor in the capacity utilised)- plus with AOS proactive disk alerting, so, unless two disks are pulled at the same time, this can be a very rare occurrence of two drives failing at the same time.

QUESTION 15

A consultant is running the Foundation VM using desktop virtualization software. No nodes are discovered. What should the consultant verify first?

A. NAT

B. Host-only Adapter

C. Bridged Adapter

D. Internal Network

Correct Answer: C

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