# NCM-MCI<sup>Q&As</sup>

Nutanix Certified Master - Multicloud Infrastructure

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**QUESTION 1**

An alert about RX errors on eth2 on a node is reported in the cluster. The administrator logs in to the CVM in question, checks the ping_* files in the data/logs/syststats folder, and notices intermittent ping loss. The node in question has the following network configuration:

```
nutanix@NTNX-16xxxxxxxx5-A-CVM:xx.xx.xx.76:~$ manage_ovs show_uplinks


Bridge: br0
  Bond: br0-up
    bond_mode: active-backup
    interfaces: eth3 eth2
    lacp: off
    lacp-fallback: True
    lacp_speed: slow
Bridge: br1
  Bond: eth0
    bond_mode: active-backup
    interfaces: eth0
    lacp: off
    lacp-fallback: True
    lacp_speed: slow
Bridge: br1
  Bond: eth0
    bond_mode: active-backup
    interfaces: eth0
    lacp: off
    lacp-fallback: false
    lacp_speed: slow
Bridge: br2
Bridge: br5
nutanix@NTNX-16xxxxxxxx5-A-CVM:xx.xx.xx.76:~$ manage_ovs show_interfaces
name  mode link speed
eth0  1000 True  1000
eth1  1000 True  1000
eth2 10000 True 10000
eth3 10000 True 10000


nutanix@NTNX-16xxxxxxxx5-A-CVM:xx.xx.xx.76:~$
```

Which action should be used to troubleshoot without disrupting the VMs running on this node?

A. Replace the cable from eth2 to the switch

B. Remove eth3 from br0-up and monitor for new alerts

C. Check the port on the switch side for any errors

D. Enable balance-s1b on br0-up and monitor if a problem persists

Correct Answer: D

**QUESTION 2**

A customer has a Nutanix cluster with 10Gb connectivity via switch fabric extenders. The administrator receives NCC health check errors of latency greater than 200ms. Which action should the administrator take to resolve the NCC errors?

A. Replace the switch fabric extenders with 10G line rate switches

B. Upgrade NCC and increase the CVM memory by 4Gb

C. Add 2 additional 10G uplinks from the switch fabric extenders per node

D. Upgrade NCC and increase the vCPU of the CVM

Correct Answer: A

Ref: https://portal.nutanix.com/page/documents/details?targetId=System-Specs-G6-Single-Node:set-block-connect-c.html

**QUESTION 3**

An administrator is using Nutanix Move to migrate a Windows VM from ESXi to AHV. Automated guest preparation is failing with an error:

Account has UAC enabled error

The administrator is using the local built-in administrator account for the Windows VM Admin approval mode must remain enabled.

What should the administrator do to continue with the migration with Nutanix Move?

A. Use a Domain Admin account for the Windows VM

B. Reboot the Windows VM and try the migration again

C. Follow manual VM preparation guidelines

D. Place Windows VM in Maintenance Mode

Correct Answer: A

https://next.nutanix.com/move-application-migration-19/nutanix-xtract-validation-failed-user-must-belong-in-a-group-with-restore-files-and-directories-security-policy-31303

**QUESTION 4**

A customer with a four-node RF2 cluster is adding application VMs to their system. After adding these VMs, the Prism dashboard shows 81% storage utilization. What is the consequence of running the cluster at 81% storage utilization?
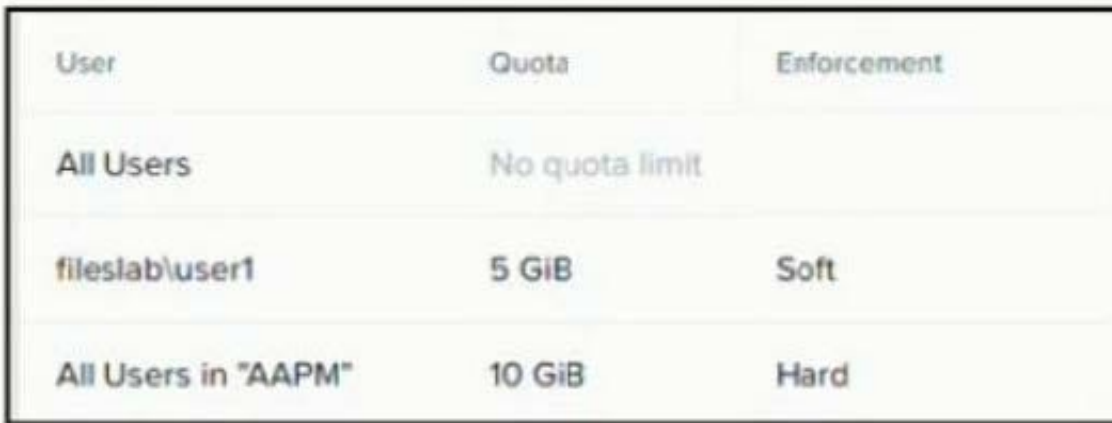
![Pass2Lead](https://Pass2Lead.com)
A. The customer has the ability to add more VMs up to the 100% storage utilization.

B. There is available capacity in the storage fabric and the cluster is resilient.

C. Node failure is imminent due to storage utilization.

D. The cluster is not resilient in the storage fabric

Correct Answer: B

https://next.nutanix.com/how-it-works-22/recommended-maximum-storage-utilization-37234

**QUESTION 5**

Refer to the exhibit.



| User | Quota | Enforcement |
|------|-------|-------------|
| All Users | No quota limit | |
| fileslab\user1 | 5 GiB | Soft |
| All Users in "AAPM" | 10 GiB | Hard |

User 1 and User 2 belong to the AAPM group

What are two descriptions of how Files perform quota management? (Choose two.)

A. User 2 can continue to add another 3GB file but will receive a daily notification email.

B. User 1 can continue to add another 5GB file but will receive a daily notification email.

C. User 1 can add an 8GB file to the share without receiving notification.

D. User 2 can add an 8GB file without receiving a notification email.

Correct Answer: BD

Ref: https://portal.nutanix.com/page/documents/details?targetId=Files-v3_6:fil-file-server-quotas-c.html#nconcept_amp_xsm_bx

**QUESTION 6**

An administrator needs to replace an aging SAN and move to a hyper-converged infrastructure. The existing environment consists of the following hosts that are connected to the SAN:

1.

5xAIX hosts

2.

3x Hyper-V hosts

3.

9xESXi hosts

4.

2x physical SQL Clusters (Windows Server 2012R2 hosts)

After deploying a Nutanix AHV cluster, which two actions should the administrator take to meet the requirements? (Choose two.)

A. Deploy Volumes to support the AIX and SQL workloads.

B. Migrate the ESXI workloads to AHV using Move.

C. Deploy Files to support the AIX hosts.

D. Migrate the ESXi and Hyper-V workloads using Move.

Correct Answer: AD

Ref: https://portal.nutanix.com/#page/kbs/details?targetId=kA00e000000Cr7GCAS

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**QUESTION 7**

In a Nutanix cluster, a Protection Domain contains 50 entities that are replicated to a remote Single Node Replication Target. The current schedule configuration is as follows:

1.

Repeat every 6 hours

2.

Local Retention Policy 1

3.

Remote Retention Policy 8

4.

Starting time 12 am

At 8 am on Monday, the administrator discovers that a protected VM is corrupted. The latest good state was Sunday 2 pm. The administrator needs to maintain current protection.

![Pass2Lead](https://Pass2Lead.com)
Which strategy should the administrator use to meet these requirements?

A. From the Remote site, activate the Protection Domain, then re-protect the entity.

B. From the Remote site, restore the VM from the local snapshot by selecting the correct snapshot

C. From the local site, retrieve the correct remote snapshot, then restore the VM locally.

D. From the local site, restore the VM from the local snapshot by selecting the correct snapshot.

Correct Answer: B

**QUESTION 8**

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

```
[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


  __     __       __
```

What is causing this issue?

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

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 10 Gig 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 9**

An administrator is monitoring the Nutanix v5.15-based AOS cluster performance logs and notices that a SQL server VM is greatly exceeding its intended maximum IOPS. The administrator has confirmed that a QoS policy was previously created for the group of VMs this server is a member of.

What are two reasons that this VM would exceed its maximum configured IOPS from the QoS Policy? (Choose two.)

A. The VM is missing the required snapshot needed to implement the QoS Policy.

B. The VM was not created as an AFS virtual machine.

C. The SQL Server VM has volume groups attached.

D. It was cloned from another SQL Server VM that was a member of the QoS Policy.

Correct Answer: BC

Ref: https://portal.nutanix.com/page/documents/details?targetId=Prism-Central-Guide-Prism-v5_18:mul-storage-qos-pc-c.html

**QUESTION 10**

Refer to the exhibit.
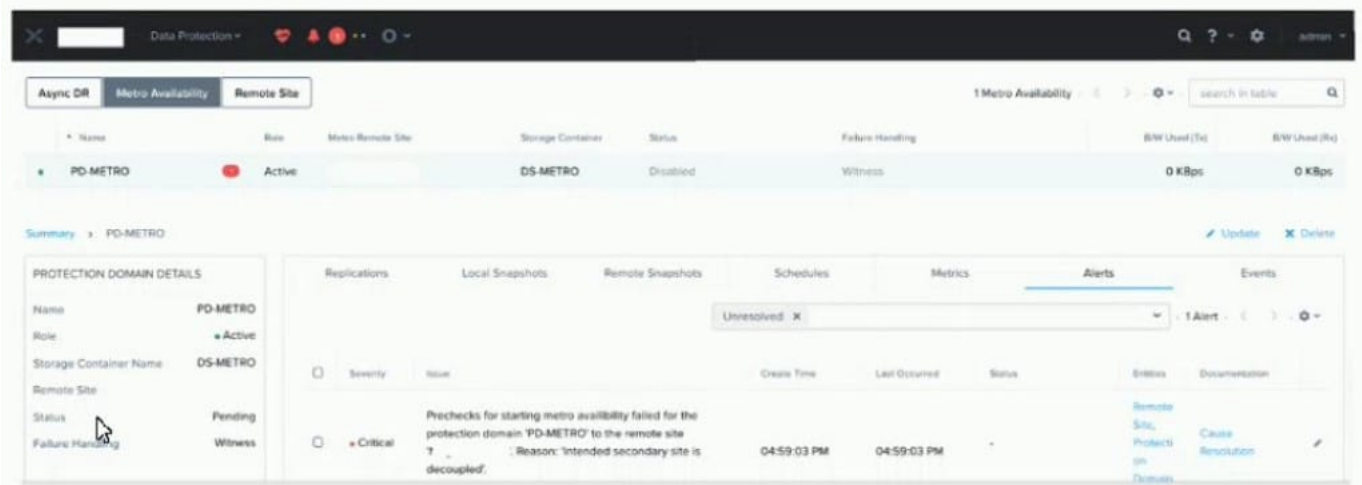
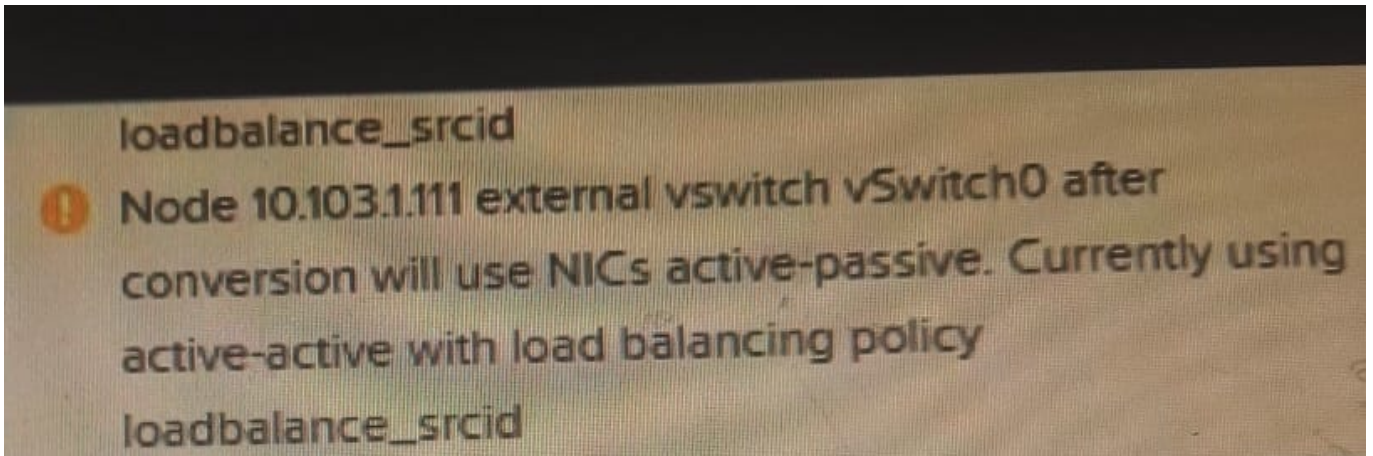An administrator notices a critical alert on the Metro Availability Protection Domain What is causing this alert?

A. Metro Availability Protection domain is active on the remote site.

B. VMware Site Recovery Manager is handling a failover event

C. Metro Availability did not fail over and caused an outage.

D. vSphere moved VMs to the remote container, and the VMs must be moved back.

Correct Answer: A

Ref: https://www.vvlsystems.com/wp-content/uploads/2016/11/BP-2009_Metro_Availability.pdf


**QUESTION 11**

Refer to the exhibit.



```
loadbalance_srcid
⚠ Node 10.103.1.111 external vswitch vSwitch0 after
conversion will use NICs active-passive. Currently using
active-active with load balancing policy
loadbalance_srcid
```

An administrator receive the warning massages shown in the exhibit while validating cluster conversion from EXSi to AHV. What should the administrator do to address this warning in v Center Server?

A. Keep active adapters od different speeds as active standby

B. Remove adapters that are active but not homogeneous.

C. Keep homogeneous adapter as active and standby

D. Remove the standby adapters under Teaming and Failover.

Correct Answer: C


**QUESTION 12**

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

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

**QUESTION 13**

HOTSPOT

A system administrator needs to shut down an AHV node in a Nutanix cluster without causing service disruption. The administrator checks data resiliency and verifies that the cluster can tolerate a node down. Which three steps should the administrator perform next? (Choose three.)

Hot Area:

| Procedure | Step |
|-----------|------|
| Put the host in maintenance mode | Step 1 ▾ |
| | Step 2 ▾ |
| | Step 3 ▾ |
| | Invalid Step ▾ |
| Shut down the CVM | Step 1 ▾ |
| | Step 2 ▾ |
| | Step 3 ▾ |
| | Invalid Step ▾ |
| Shut down the node | Step 1 ▾ |
| | Step 2 ▾ |
| | Step 3 ▾ |
| | Invalid Step ▾ |
| Power off the node | Step 1 ▾ |
| | Step 2 ▾ |
| | Step 3 ▾ |
| | Invalid Step ▾ |
| Allow VMs to start on the remaining nodes | Step 1 ▾ |
| | Step 2 ▾ |
| | Step 3 ▾ |
| | Invalid Step ▾ |

![Pass2Lead](https://Pass2Lead.com)
Correct Answer:

1 allow vms 2 sd CVM 3 sd node

![Pass2Lead](https://Pass2Lead.com)
| Procedure | Step |
|---|---|
| Put the host in maintenance mode | Step 1 ▼ |
| | Step 2 ▼ |
| | Step 3 ▼ |
| | Invalid Step ▼ |
| Shut down the CVM | Step 1 ▼ |
| | **Step 2 ▼** |
| | Step 3 ▼ |
| | Invalid Step ▼ |
| Shut down the node | Step 1 ▼ |
| | Step 2 ▼ |
| | **Step 3 ▼** |
| | Invalid Step ▼ |
| Power off the node | Step 1 ▼ |
| | Step 2 ▼ |
| | Step 3 ▼ |
| | Invalid Step ▼ |
| Allow VMs to start on the remaining nodes | **Step 1 ▼** |
| | Step 2 ▼ |
| | Step 3 ▼ |
| | Invalid Step ▼ |

**QUESTION 14**

An administrator has two clusters: Site A and Site B. Async DR is configured between the clusters as follows:

1.

Site A is the Primary Site

2.

Site B is the Secondary inactive Site, no VMs running

3.

Site A is fully in Production

4.

Site B used as Backup/Disaster Recovery

The customer wants to perform a planned failover between the sites.

How should the administrator accomplish this?

A. Click Activate on the Secondary site within the Data Protection Dashboard

B. Click Activate on the Secondary site and run deactive NCLI command on Primary site

C. Choose Migrate on the Secondary site within the Data Protection Dashboard

D. Choose Migrate on the Primary site within the Data Protection Dashboard

Correct Answer: D

Ref: https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v510:wc-protection-domain-failover-wc-t.html

**QUESTION 15**

Refer to the exhibit.

![Pass2Lead](https://Pass2Lead.com)
A Microsoft SQL 2016 deployment is shown in the exhibit. The administrator receives user reports that database queries take too long to return. Which optimization should be made to this configuration to improve performance?

A. Combine both of the OS and SQL Binaries disks

B. Add a second SCSI controller for the Database.

C. TempDB, and Logs disk Separate the Database. TempDB, and Logs onto their own disks

D. Configure the VM to use a PCI disk controller

Correct Answer: C

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