



# NCM-5.15<sup>Q&As</sup>

Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) 5.15

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**QUESTION 1**

An administrator needs to expand a cluster based on AHV and running on Nutanix G5 hardware with a new Nutanix G7 system. The cluster is running AOS 5.10 but the operation fails when expanding the cluster. AOS is running on the new system. There are no issues discovering the node.

Why is the operation failing?

- A. AOS version running on G7 is older than the version on the cluster.
- B. Foundation software has not been updated on the cluster.
- C. G7 hardware cannot be added to a G5 cluster.
- D. EVC needs to be configured before cluster expansion

Correct Answer: A

Reference: <https://next.nutanix.com/installation-configuration-23/product-mixing-restrictions-37231>

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**QUESTION 2**

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?

- 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: D

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**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: C

Reference: <https://portal.nutanix.com/page/documents/kbs/details?targetId=kA00e0000009DpgCAE>

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#### QUESTION 4

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: Repeat every 6 hours Local Retention Policy 1 Remote Retention Policy 8 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.

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: C

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#### QUESTION 5

An administrator receives an alert in Prism indicating that interface eth2, on an AHV host is receiving many CRC errors. After toggling 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

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.

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## QUESTION 6

A customer has Metro Availability configured in Automatic Resume Mode between Site A and Site B.

What happens to VMs if Primary Site A has full network failure?

- A. Automatic protection domain promotion in Site B. VMs automatically restart in Site
- B. VMs continue to run on Site A following an automatic disable of protection domains.



C. An administrator must unwitness in Site B and promote protection domains in Site B for VMs to restart

D. An administrator must promote protection domains in Site B for VMs to restart.

Correct Answer: A

Scenario	Behavior based on MA Configuration		
	Witness Mode	Automatic Resume Mode	Manual Mode
Site 1 Outage or complete network failure in Site 1	Automatically Failover to Site 2	Automatically Failover to Site 2	Admin action to activate PD on Site 2 and restart VMs
Site 2 Outage or complete network failure in Site 2	VMs continue to run on Site 1	Automatically Failover to Site 1	Pause all VMs until admin action
Connection loss between Site 1 & 2 a.k.a Network Partition	VMs continue to run on Site 1	VMs continue to run after timeout	Pause all VMs until admin action
Metro Availability Witness Failure	No impact however ability to recover automatically in some scenarios is lost.	No impact however ability to recover automatically in some scenarios is lost.	Not Applicable
Connection loss between Site 1 & Witness	VMs continue to run on Site 1	Not Applicable	Not Applicable
Connection loss between Site 2 & Witness	VMs continue to run on Site 1	Not Applicable	Not Applicable
Connection loss between Witness and BOTH sites or Witness Failure	VMs continue to run on Site 1	Not Applicable	Not Applicable
Failure at both Site 1 and Site 2	Administrator intervention required	Administrator intervention required	Administrator intervention required
Connection loss between Site 1 & Site 2, and Site 1 and the Witness	Pause all VMs on Site 1 until admin action.	Don't failover. Log & Alert	Power down all VMs

Reference: <http://www.joshodgers.com/2016/06/15/whats-next-2016-metro-availability-witness/>

## QUESTION 7

An administrator inherits a new Nutanix environment and logs in to a CVM to check the network configuration. The configuration is as follows:



```
nutanix@NTNX-16xxxxxxxxx5-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: false
lacp_speed: slow
Bridge: br2
Bridge: br5
```

```
nutanix@NTNX-16xxxxxxxxx5-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-16xxxxxxxxx5-A-CVM:xx.xx.xx.76:~$
```

Which action should the administrator take to improve network performance?

- A. Configure VLAN tagging both on br0 and br1 and their physical interfaces.
- B. Add eth0 and eth1 to the br0-up bond
- C. Configure balance-sib or balance-tcp mode for br0-up if switch configuration allows
- D. Remove one 10 Gbs interface from br0-up to make sure all 10 Gbs can be used.

Correct Answer: C

## QUESTION 8

An administrator is deploying an application that requires maximum I/O throughput for scratch data. The administrator is concerned that the throughput requirement is greater than what can be provided by a single cluster node. What should the administrator do to meet this requirement?

- A. Create a volume group with several virtual disks and attach to the VM



- B. Create a volume group with one virtual disk attached to the VM
- C. Create a virtual disk attached to the VM's PCI interface
- D. Create several virtual disks attached to the VM's virtual SCSI controller

Correct Answer: A

Reference: <https://next.nutanix.com/archive-44/scaling-up-vm-storage-performance-on-ahv-volume-group-load-balancer-28063>

### QUESTION 9

#### 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 steps should the administrator perform next?

Hot Area:

### Answer Area

#### Procedure

Put the host in maintenance mode

#### Step

	▼
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	



Correct Answer:

### Answer Area

#### Procedure

Put the host in maintenance mode

#### Step

	▼
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	

### QUESTION 10

An administrator needs to initiate a new VDI project within a couple of months. Prism Central reports there are no storage resources to accommodate such workloads.

The administrator sees many powered-off VMs and has the authority to delete test VMs powered off at least for 30 days. Test VMs belong to the Test category.

Using Prism Central, which steps are required to identify the correct VMs to be deleted?

- A. Use Capacity Runway to filter by Test and Powered-off VMs
- B. Filter VMs list, choose Test category and Inactive under Efficiency
- C. Create a new Scenario selecting Test VMs. filter by uptime
- D. Create a new Project selecting Test VMs, sorting by power state





Correct Answer: B

### QUESTION 11

An administrator has two clusters: Site A and Site B. Async DR is configured between the clusters as follows: Site A is the Primary Site Site B is the Secondary inactive Site, no VMs running Site A is fully in Production 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 deactivate 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

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

### QUESTION 12

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 13

An administrator is deploying a three-tier application on a Nutanix Enterprise Cloud consisting of web, application, and database VMs. Traffic between the servers must be limited to specific services/ports.

There is an application layer firewall VM deployed on one host in the cluster.

In which way should the administrator meet this requirement?

- A. Create a network for each type of VM, and use policy-based routing to control the traffic flow
- B. Configure a security policy and service chain redirecting the server traffic through the firewall
- C. Separate the web application and database VMs on to dedicated VLANs
- D. Categorize the VMs in Prism Central and utilize Flow to set a security policy

Correct Answer: D

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### QUESTION 14

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>

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### QUESTION 15

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

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