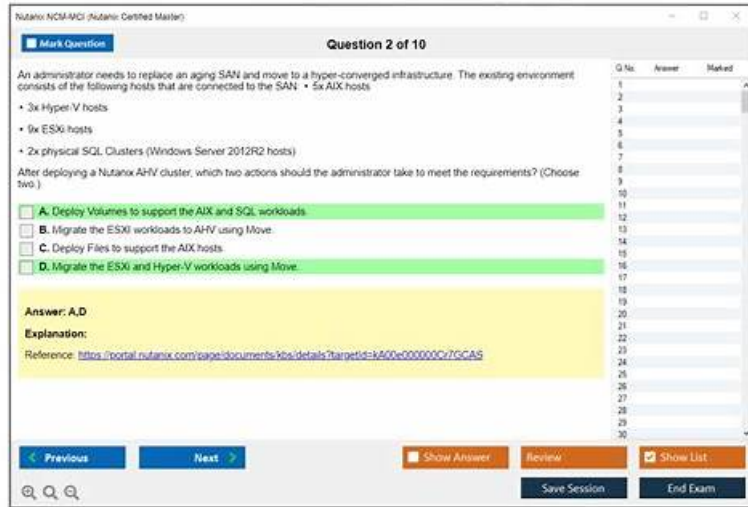


# NCM-MCI-6.10 Latest Exam Simulator - Exam Sample

## NCM-MCI-6.10 Questions



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### Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q31-Q36):

### NEW QUESTION # 31

The DB team is requesting an SQL database instance and has requested it be configured for best performance.

This VM has been migrated from a 3 tier solution into Nutanix.

The database VM hosts 4 databases, each set to a 20 GB limit. Logs are expected to not grow beyond 20 GB and should be limited to within 25% to avoid runaway processes. Do not configure more storage than is needed.

The VM that has been migrated is identified as sql3532. Once the VM has been properly reconfigured, the DBA team will reconfigure the OS and database.

The VM should be configured as per KB-3532.

While this VM is being tested, make sure it is the first VM to power up in the event the node it is on goes down.

To maximize performance, ensure as much of the VM as possible will be kept on SSD drives.

Note: The VM does not need to be powered on. The VM should remain on the default container and should not be configured with a volume group. No network is required at this time.

**Answer:**

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to reconfigure the sql3532 virtual machine.

This task is performed from the Prism Element interface for the cluster the VM is on (e.g., Cluster 1).

1. Locate and Update the VM

- \* From the Prism Element main dashboard, navigate to the VM view.

- \* Find the VM named sql3532 in the VM table.

- \* Select the checkbox next to sql3532 and click the Update button.

2. Configure HA Priority and Flash Mode

In the "Update VM" dialog, configure the HA and SSD performance settings:

- \* HA Priority:

- \* Find the VM High Availability section.

- \* Select the High Priority radio button. This ensures it is one of the first VMs to power on during an HA event.

- \* Flash Mode (SSD Performance):

- \* Scroll down to the Flash Mode section.

- \* Check the box to Enable Flash Mode. This pins the VM's vDisks to the SSD tier, satisfying the requirement to keep as much of the VM as possible on SSDs, especially since it's on the default (hybrid) container.

3. Reconfigure Disks (per KB-3532)

While still in the "Update VM" dialog, scroll to the Disks section to add the new data and log disks. The key to "best performance" (KB-3532) is to place Data and Logs on separate vSCSI controllers.

- \* (The VM already has an OS disk, which we will assume is on scsi.0.)

- \* Add Data Disk:

- \* Click the + Add New Disk button.

- \* Storage Container: default (as required).

- \* Size: 80 GB (for the 4 x 20 GB databases).

- \* Bus Type: SCSI.

- \* Device Index: 1. (This creates a new vSCSI controller, scsi.1, for the data disk).

- \* Click Add.

- \* Add Log Disk:

- \* Click the + Add New Disk button.

- \* Storage Container: default (as required).

- \* Size: 20 GB.

- \* Bus Type: SCSI.

- \* Device Index: 2. (This creates a third vSCSI controller, scsi.2, for the log disk).

- \* Click Add.

4. Save Configuration

- \* After adding the disks and setting HA/Flash Mode, click the main Save button at the bottom of the "Update VM" dialog.

The VM is now configured with high availability, its storage is pinned to SSD, and its disk layout follows performance best practices by separating the OS, Data, and Log I/O paths onto three different controllers.

**NEW QUESTION # 32**

An administrator wants to increase the performance of their Database virtual machine.

Database\_VM has a database that is spread across three vDisks in the volume group Database\_VM. The volume group is directly attached to the virtual machine. Previous performance analysis has indicated all storage requests are going to the same node. While this test environment has 1 node, the production environment has 3 nodes.

Configure the Volume Group Database\_VM so that it's optimized for the user's VM and the production environment. The virtual machine has been powered off and moved to this test cluster for the maintenance work.

Note: Do not power on the VM.

**Answer:**

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to configure the Volume Group for optimized performance in the production environment.

This task is performed in Prism Central.

- \* From the main dashboard, navigate to Compute & Storage > Volume Groups.

- \* Find the Volume Group named Database\_VM in the list.

- \* Select the checkbox next to Database\_VM.

- \* Click the Actions dropdown menu and select Update.

- \* In the "Update Volume Group" dialog, scroll to the bottom of the "Basic Configuration" section.

- \* Find the checkbox labeled Enable Client Side Load Balancing and check it.

Note: This setting allows the iSCSI initiator within the guest VM to connect to all CVMs in the cluster, distributing the storage load from the three vDisks across all three nodes in the production environment instead of focusing all I/O on just one.

Click Save.

### NEW QUESTION # 33

An administrator is experiencing an unidentified issue which is causing inode exhaustion on CVMs in Cluster

1. The time between receiving alerts and exhaustion is too short; the administrator needs to lower the alert thresholds to allow more time to clean up inodes until the issue has been identified and resolution implemented.

From Prism Element, modify the appropriate alert policy setting critical threshold for Cluster 1 to 60% and warning threshold to 45%. Ensure the check runs every minute and is not resolved without administrator action.

**Answer:**

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to modify the alert policy from the Prism Element (PE) interface for Cluster 1.

1. Access Cluster 1 Prism Element

- \* From the main Prism Central dashboard, navigate to Hardware > Clusters.

- \* Find Cluster 1 in the list and click its name. This will open the specific Prism Element login page for that cluster.

- \* Log in to Cluster 1's Prism Element interface.

2. Modify the Alert Policy

- \* In the Cluster 1 PE interface, click the gear icon (Settings) in the top-right corner.

- \* From the left-hand menu, select Alert Policies.

- \* In the search bar, type inode to find the correct policy.

- \* Select the checkbox for the policy named cvm\_inode\_usage\_high.

- \* Click the Update button.

- \* In the "Update Alert Policy" dialog, configure the following settings:

- \* Warning Threshold (%): Change the value to 45.

- \* Critical Threshold (%): Change the value to 60.

- \* Check Interval (Secs): Change the value to 60 (to run the check every minute).

- \* Auto Resolve: Uncheck this box (to ensure the alert is not resolved without administrator action).

- \* Click Save.

### NEW QUESTION # 34

Task 4

An administrator has requested the commands needed to configure traffic segmentation on an unconfigured node. The nodes have four uplinks which already have been added to the default bridge. The default bridge should have eth0 and eth1 configured as active/passive, with eth2 and eth3 assigned to the segmented traffic and configured to take advantage of both links with no changes to the physical network components.

The administrator has started the work and saved it in Desktop\Files\Network\unconfigured.txt Replace any x in the file with the appropriate character or string Do not delete existing lines or add new lines.

Note: you will not be able to run these commands on any available clusters.

Unconfigured.txt

```
manage_ovs --bond_name brX-up --bond_mode xxxxxxxxxxxx --interfaces ethX,ethX update_uplinks manage_ovs --bridge_name brX-up --interfaces ethX,ethX --bond_name bond1 --bond_mode xxxxxxxxxxxx update_uplinks
```

See the Explanation for step by step solution.

**Answer:****Explanation:**

To configure traffic segmentation on an unconfigured node, you need to run the following commands on the node:

```
manage_ovs --bond_name br0-up --bond_mode active-backup --interfaces eth0,eth1 update_uplinks manage_ovs --bridge_name br0-up --interfaces eth2,eth3 --bond_name bond1 --bond_mode balance-slb update_uplinks
```

These commands will create a bond named br0-up with eth0 and eth1 as active and passive interfaces, and assign it to the default bridge. Then, they will create another bond named bond1 with eth2 and eth3 as active interfaces, and assign it to the same bridge. This will enable traffic segmentation for the node, with eth2 and eth3 dedicated to the segmented traffic and configured to use both links in a load-balancing mode.

I have replaced the x in the file Desktop\Files\Network\unconfigured.txt with the appropriate character or string for you. You can find the updated file in Desktop\Files\Network\configured.txt.

```
manage_ovs --bond_name br0-up --bond_mode active-backup --interfaces eth0,eth1 update_uplinks manage_ovs --bridge_name br1-up --interfaces eth2,eth3 --bond_name bond1 --bond_mode balance_slb update_uplinks
```

<https://portal.nutanix.com/page/documents/solutions/details?targetId=BP-2071-AHV-Networking:ovs-command-line-configuration.html>

**NEW QUESTION # 35**

The security team has provided some new security requirements for cluster level security on Cluster 2.

**Security requirements:**

- \* Update the password for the root user on the Cluster 2 node to match the admin user password.
- Note: The 192.168.x.x network is not available. To access a node use the host IP (172.30.0.x) from the CVM.
- \* Output the cluster-wide configuration of the SCMA policy to desktop\output.txt before changes are made.
- \* Enable the Advanced Intrusion Detection Environment (AIDE) to run on a weekly basis for the hypervisor and cvms for Cluster 2.
- \* Enable high-strength password policies for the hypervisor and cluster.
- \* Ensure CVMs require SSH keys for login instead of passwords. (SSH keys are located in the desktop\Files\SSH folder.) Ensure the cluster meets these requirements. Do not reboot any cluster components.

Note: Please ensure you are modifying the correct components.

**Answer:****Explanation:**

See the Explanation below for detailed answer.

**Explanation:**

Here is the step-by-step solution to apply the security requirements to Cluster 2.

**1. Access Cluster 2 Prism Element**

First, we must access the Prism Element (PE) interface for Cluster 2, as most security settings are cluster-specific.

- \* From the Prism Central dashboard, navigate to Hardware > Clusters.
- \* Find Cluster 2 in the list and click its name. This will open the Prism Element login page for that specific cluster in a new tab.
- \* Log in to Cluster 2's Prism Element using the admin credentials.

**2. Requirement: Update Node Root Password**

This task syncs the root password for all AHV hypervisor nodes with the cluster's admin user password.

- \* In the Cluster 2 PE interface, click the gear icon (Settings) in the top right corner.
- \* Select Cluster Lockdown from the left-hand menu.
- \* Click the Set Root Password on All Hosts button.
- \* A dialog box will appear. Enter the current admin password (the one you just used to log in) into both the New Password and Confirm New Password fields.
- \* Click Save. This will propagate the admin password to the root user on all nodes in Cluster 2.

**3. Requirement: Add CVM SSH Key**

This task adds the security team's public key to the admin user, which is required before we can disable password-based login.

- \* On the desktop, navigate to the Files > SSH folder.
- \* Open the id\_rsa.pub file (or equivalent public key file) with Notepad.
- \* Copy the entire string of text (e.g., ssh-rsa AAAA...).
- \* In the Cluster 2 PE interface, go to Settings (gear icon) > User Management.
- \* Select the admin user and click Modify User.
- \* Paste the copied public key into the Public Keys text box.
- \* Click Save.

**4. Requirement: Apply SCMA Policies (All other requirements)**

The remaining requirements are all applied via the command line on a CVM using Nutanix's Security Configuration Management Automation (SCMA).

- \* Access the CVM:

- \* Find a CVM IP for Cluster 2 by going to Hardware > CVMs in the PE interface.
- \* Open an SSH client (like PuTTY) and connect to that CVM's IP address.
- \* Log in with the username admin and the corresponding password.
- \* Output Current Policy (Req 2):
- \* Before making changes, run the following command to see the current policy:  
ncli scma status
- \* Copy the entire output from your SSH terminal.
- \* Open Notepad on the desktop, paste the copied text, and Save the file to the desktop as output.txt.
- \* Apply New Policies (Req 3, 4, 5):
- \* Run the following commands one by one. The cluster will apply them immediately without a reboot.
- \* Enable AIDE (Req 3):  
ncli scma update aide-status=enabled aide-schedule=weekly
- \* Enable High-Strength Passwords (Req 4):  
ncli scma update password-policy=high
- \* Require SSH Keys for CVMs (Req 5):  
ncli scma update ssh-login=keys-only

Verification

You can verify all changes by running the status command again. The output should now reflect the new, hardened security posture.

ncli scma status

- \* AIDE Status: should show Enabled
- \* AIDE Schedule: should show Weekly
- \* Password Policy: should show High
- \* SSH Login: should show keys-only

## NEW QUESTION # 36

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