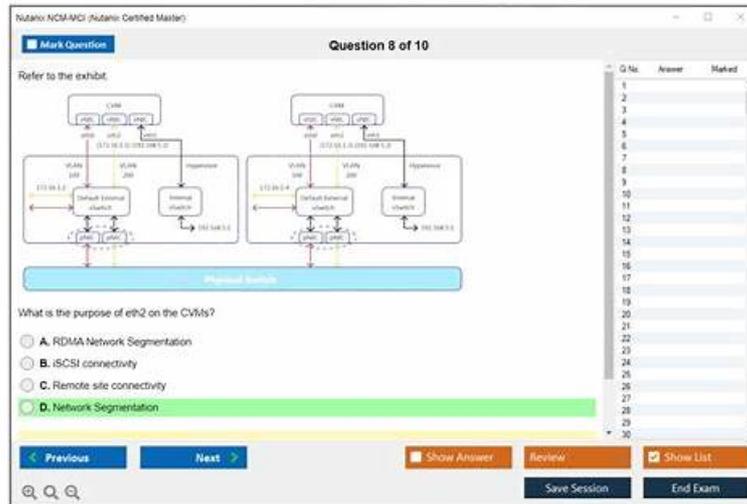# Up to 365 days of free updates of the Nutanix NCM-MCI-6.10 practice material

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Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q13-Q18):

NEW QUESTION # 13
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 # 14
TASK 1
A newly created Windows VM "SQL02" is experiencing poor storage performance when compared to
"SQL01" running within the same cluster, on the same storage container.

The cluster is in a healthy state.

Create a new session named Monitor SQL02 with meaningful metrics. Right click on the session page and click Select All then paste this into Notepad and save it as Task 1.txt on the desktop.

Also, save the analysis as a report named MonitorSQL02 and send the report as a PDF on a daily basis to perf_group@ACME.org. Reports should not be retained. If any new objects need to be created, use monitovm2 in the name.

Finally, correct the issue within "SQL02".

Notes:

* Do not power on the VMs.

* While you will be creating a session, you will need to examine the VM configurations to determine the issue.

* Do not delete the VM to resolve the issue, any other destructive change is acceptable.

Answer:

Explanation:
See the Explanation below for detailed answer.

Explanation:
Here is the step-by-step solution to all three tasks, performed within the Nutanix Prism interface.

Task 1: Create Monitoring Session & Save Metrics
* From the Prism Central dashboard, navigate to Operations > Analysis.
* Click the + New Session button.
* Name the session Monitor SQL02.
* In the "Entities" search box, type SQL01 and select VM: SQL01.
* In the "Entities" search box, type SQL02 and select VM: SQL02.
* Click Add Charts > New Chart.
* Title: Storage IOPS
* Metric: Storage Controller IOPS
* Click Add.
* Click Add Charts > New Chart.
* Title: Storage Latency
* Metric: Storage Controller Latency
* Click Add.
* Click Add Charts > New Chart.
* Title: Storage Bandwidth
* Metric: Storage Controller Bandwidth
* Click Add.
* Click Save Session.
* With the "Monitor SQL02" session open, right-click anywhere on the page and click Select All.
* Right-click again and select Copy.
* Open Notepad, paste the content, and save the file to the desktop as Task 1.txt.
(The content pasted into Task 1.txt would be the session's chart configurations, showing metrics for SQL01 and SQL02.)

Task 2: Create and Schedule the Report
* While still in the "Monitor SQL02" analysis session, click the Save as Report button (it looks like a bookmark icon).
* Name the report MonitorSQL02 and click Save.
* Navigate to Operations > Reports.
* Find the MonitorSQL02 report in the list. Select its checkbox.
* Click the Actions dropdown and select Schedule.
* Configure the schedule with the following settings:
* Schedule Name: monitovm2_daily_report
* Recurrence: Daily
* Start Time: (Set to a time, e.g., 8:00 AM)
* Repeat every: 1 day(s)
* Retention Policy: Uncheck the "Retain a copy of the report" box. (This ensures reports are not retained).
* Email Report: Check this box.
* Format: PDF
* Recipients: perf_group@ACME.org
* Click Save.

Task 3: Identify and Correct the Performance Issue
This task is performed without powering on the VMs, indicating a configuration error.

Investigation
* Navigate to VMs > Table view.
* Click on the SQL01 (the good VM) and select the Configuration tab.

* Expand the Disks section. Observe that the primary disk is attached to a SCSI bus (e.g., scsi.0). This is the high-performance standard.
* Return to the VM list and click on SQL02 (the problem VM).
* Expand the Disks section.
Root Cause
You discover that the primary disk for SQL02 is attached to an IDE bus. The IDE bus has significant performance limitations and is not suitable for a database server, causing the poor storage performance.
Correction
* With the SQL02 VM selected, click the Update button.
* In the "Update VM" dialog, scroll down to the Disks section.
* Find the disk attached to the IDE bus. Click the Edit (pencil) icon for that disk.
* Change the Bus Type dropdown from IDE to SCSI.
* The Device Index will automatically populate (e.g., scsi.0).
* Click Save in the "Update Disk" dialog.
* (Note: A "VirtIO SCSI Controller" will be automatically added to the VM configuration if one was not already present.)
* Click Save in the "Update VM" dialog.
The VM SQL02 is now configured to use the high-performance VirtIO-SCSI controller, which will resolve the storage performance discrepancy once the VM is powered on.

NEW QUESTION # 15
Task 5
An administrator has noticed that after a host failure, the SQL03 VM was not powered back on from another host within the cluster. The Other SQL VMs (SQL01, SQL02) have recovered properly in the past.
Resolve the issue and configure the environment to ensure any single host failure affects a minimal number os SQL VMs.
Note: Do not power on any VMs

Answer:

Explanation:
See the Explanation for step by step solution.
Explanation:
One possible reason why the SQL03 VM was not powered back on after a host failure is that the cluster was configured with the default (best effort) VM high availability mode, which does not guarantee the availability of VMs in case of insufficient resources on the remaining hosts. To resolve this issue, I suggest changing the VM high availability mode to guarantee (reserved segments), which reserves some memory on each host for failover of VMs from a failed host. This way, the SQL03 VM will have a higher chance of being restarted on another host in case of a host failure.
To change the VM high availability mode to guarantee (reserved segments), you can follow these steps:
Log in to Prism Central and select the cluster where the SQL VMs are running.
Click on the gear icon on the top right corner and select Cluster Settings.
Under Cluster Services, click on Virtual Machine High Availability.
Select Guarantee (Reserved Segments) from the drop-down menu and click Save.
To configure the environment to ensure any single host failure affects a minimal number of SQL VMs, I suggest using anti-affinity rules, which prevent VMs that belong to the same group from running on the same host. This way, if one host fails, only one SQL VM will be affected and the other SQL VMs will continue running on different hosts.
To create an anti-affinity rule for the SQL VMs, you can follow these steps:
Log in to Prism Central and click on Entities on the left menu.
Select Virtual Machines from the drop-down menu and click on Create Group.
Enter a name for the group, such as SQL Group, and click Next.
Select the SQL VMs (SQL01, SQL02, SQL03) from the list and click Next.
Select Anti-Affinity from the drop-down menu and click Next.
Review the group details and click Finish.
I hope this helps. How else can I help?
https://portal.nutanix.com/page/documents/details?targetId=AHV-Admin-Guide-v6_5:ahv-affinity-policies-c.html
A screenshot of a computer Description automatically generated with medium confidence

NEW QUESTION # 16

Task 9

The application team has requested several mission-critical VMs to be configured for disaster recovery. The remote site (when added) will not be managed by Prism Central. As such, this solution should be built using the Web Console.

Disaster Recovery requirements per VM:

Mkt01
RPO: 2 hours
Retention: 5 snapshots
Fin01
RPO: 15 minutes
Retention: 7 days
Dev01
RPO: 1 day
Retention: 2 snapshots

Configure a DR solution that meets the stated requirements.

Any objects created in this item must start with the name of the VM being protected.

Note: the remote site will be added later

Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

To configure a DR solution that meets the stated requirements, you can follow these steps:

Log in to the Web Console of the source cluster where the VMs are running.

Click on Protection Domains on the left menu and click on Create Protection Domain.

Enter a name for the protection domain, such as PD_Mkt01, and a description if required. Click Next.

Select Mkt01 from the list of VMs and click Next.

Select Schedule Based from the drop-down menu and enter 2 hours as the interval. Click Next.

Select Remote Site from the drop-down menu and choose the remote site where you want to replicate the VM.

Click Next.

Enter 5 as the number of snapshots to retain on both local and remote sites. Click Next.

Review the protection domain details and click Finish.

Repeat the same steps for Fin01 and Dev01, using PD_Fin01 and PD_Dev01 as the protection domain names, and adjusting the interval and retention values according to the requirements.

A protection domain is a grouping of Virtual Machines for disaster recovery purposes. Enter a name (using alpha numeric characters only) for the protection domain you would like to create. You will then be guided into assigning Virtual Machines to it, and scheduling it.

Name

Mkt01-PD

☑ Auto protect related entities. ?

Protect Selected Entities (1) ＞

Previous   Next

Protected Entities (1)

Search by Entity Name

Search by CG Name

☐	⌃ Entity Name	CG
☐	**Mkt01**	**Mkt01**

＜   Unprotect Selected Entities

Next

NEW QUESTION # 17
An administrator needs to perform AOS and AHV upgrades on a Nutanix cluster and wants to ensure that VM data is replicated as quickly as possible when hosts and CVMs are rebooted.
Configure Cluster 1 so that after planned host and CVM reboots, the rebuild scan starts immediately.
Note:
You will need to use SSH for this task. Ignore the fact that this is a 1-node cluster.

Answer:

Explanation:
See the Explanation below for detailed answer.
Explanation:
Here is the step-by-step solution to configure the immediate rebuild scan on Cluster 1.
This task must be performed from an SSH session connected to a CVM (Controller VM) on Cluster 1.

1. Access the Cluster 1 CVM
* From the Prism Central dashboard, navigate to Hardware > Clusters and click on Cluster 1 to open its Prism Element (PE) interface.
* In the Cluster 1 PE, navigate to Hardware > CVMs to find the IP address of any CVM in the cluster.
* Use an SSH client (like PuTTY) to connect to the CVM's IP address.
* Log in with the admin user and password.
2. Modify the Rebuild Delay Setting
By default, the cluster waits 15 minutes (900 seconds) before starting a rebuild scan after a CVM reboot. You will change this setting to 0.
* Once logged into the CVM, run the following command to set the delay to 0 seconds:
gflag --set --gflags=stargate_delayed_rebuild_scan_secs=0
* (Optional but recommended) You can verify the change took effect by running the "get" command:
gflag --get --gflags=stargate_delayed_rebuild_scan_secs
The output should now show stargate_delayed_rebuild_scan_secs=0.

NEW QUESTION # 18

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