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## Reliable Nutanix NCM-MCI-6.10 Real Exam - Latest NCM-MCI-6.10 Test Sample

The NCM-MCI-6.10 web-based practice test can be accessed online. It means the exam candidates can access it from the browsers like Firefox, Microsoft Edge, Google Chrome, and Safari. The user doesn't need to install or download any excessive plugins to take the Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) (NCM-MCI-6.10) practice test. Mac, Windows, iOS, Android, and Linux support it. The third and last format is the desktop practice test software. The Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) (NCM-MCI-6.10) desktop practice test format can be used on Windows computers.

## Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q29-Q34):

### NEW QUESTION # 29

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 of 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](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



Name	VMs	Hosts	VM Compliance Status	Modified By	Last Modified
bugtestaffinity	2	1	1 Non Compliant 2 Non Compliant	admin	Nov 25, 2022, 07:49 PM

#### NEW QUESTION # 30

Due to new security requirements, an administrator has been tasked with updating the security settings for user accounts within Prism Element on Cluster 1.

An SSL Certificate Signing Request with Subject Alternative Name should be generated for submission to the security team's Certificate Authority with the following details:

countryName = US

stateOrProvinceName = North Carolina

localityName = Durham

organizationName = ACME

organizationalUnitName = Infrastructure

commonName = prism\_element.ACME.org

emailAddress = administrator@ACME.org

Alternate names = cvm1.ACME.org, cvm2.ACME.org, cvm3.ACME.org

Encryption: RSA 2048, sha256

When the Certificate Signing Request is generated, place a copy of both the .cnf file and the .csr file on the desktop named

'prism\_element\_acme.cnf' and 'prism\_element\_acme.csr' Save a copy of the command(s) used for this scenario to a new file on the desktop named 'Task 5.txt'.

Note: You must copy and paste the command(s) and output from SSH to the "Task 5.txt" file to achieve all points available.

### Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to generate the Certificate Signing Request (CSR) on Cluster 1.

This entire process is performed from an SSH session connected to a CVM (Controller VM) on Cluster 1.

#### 1. Access Cluster 1 CVM

\* From Prism Central, 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. Create the Configuration File (.cnf)

To include the Subject Alternative Names (SANs), you must first create a configuration file.

\* In the CVM's command line, create the .cnf file using a text editor:

vi prism\_element\_acme.cnf

\* Press i to enter "Insert" mode.

\* Paste the following text exactly into the editor:

Ini, TOML

[ req ]

default\_bits = 2048

distinguished\_name = req\_distinguished\_name

req\_extensions = v3\_req

prompt = no

[ req\_distinguished\_name ]

C = US

ST = North Carolina

L = Durham

O = ACME

OU = Infrastructure

CN = prism\_element.ACME.org

emailAddress = administrator@ACME.org

[ v3\_req ]

subjectAltName = @alt\_names

[ alt\_names ]

DNS.1 = cvm1.ACME.org

DNS.2 = cvm2.ACME.org

DNS.3 = cvm3.ACME.org

\* Press Esc to exit "Insert" mode, then type :wq and press Enter to save and quit vi.

#### 3. Generate the CSR and Key

\* Run the following openssl command. This command uses the .cnf file to generate the new CSR (.csr) and a corresponding private key (.key), applying the sha256 encryption as requested.

Bash

```
openssl req -new -nodes -out prism_element_acme.csr -keyout prism_element_acme.key -config prism_element_acme.cnf -sha256
```

\* The command will output the following, confirming the key generation:

\* Generating a 2048 bit RSA private key

\* .....+++++

\* .....+++++

\* writing new private key to 'prism\_element\_acme.key'

\* -----

#### 4. Save Files to the Desktop

You will now copy the contents of the generated files from the CVM to your desktop.

\* For Task 5.txt (Commands and Output):

\* Open a new Notepad file on the desktop.

\* Copy and paste all the commands you ran in the SSH session and their full output (as shown in steps 2 and 3) into this file.

\* Save the file on the desktop as Task 5.txt.

\* For prism\_element\_acme.cnf

- \* In the CVM SSH session, display the file's content:  
cat prism\_element\_acme.cnf
- \* Copy the entire text output (starting from [ req ]).  
\* Open a new Notepad file on the desktop.  
\* Paste the content and save the file as prism\_element\_acme.cnf.
- \* For prism\_element\_acme.csr:  
\* In the CVM SSH session, display the file's content:  
cat prism\_element\_acme.csr
- \* Copy the entire text output, including the -----BEGIN CERTIFICATE REQUEST----- and ----- END CERTIFICATE REQUEST----- lines.  
\* Open a new C:\Users\admin\Desktop\Notepad file on the desktop.  
\* Paste the content and save the file as prism\_element\_acme.csr.

## NEW QUESTION # 31

### Task 15

Depending on the order you perform the exam items, the access information and credentials could change.

Please refer to the other item performed on Cluster B if you have problems accessing the cluster.

The infosec team has requested that audit logs for API Requests and replication capabilities be enabled for all clusters for the top 4 severity levels and pushed to their syslog system using highest reliability possible. They have requested no other logs to be included.

Syslog configuration:

Syslog Name: Corp\_syslog

Syslog IP: 34.69.43.123

Port: 514

Ensure the cluster is configured to meet these requirements.

### Answer:

Explanation:

See the Explanation for step by step solution.

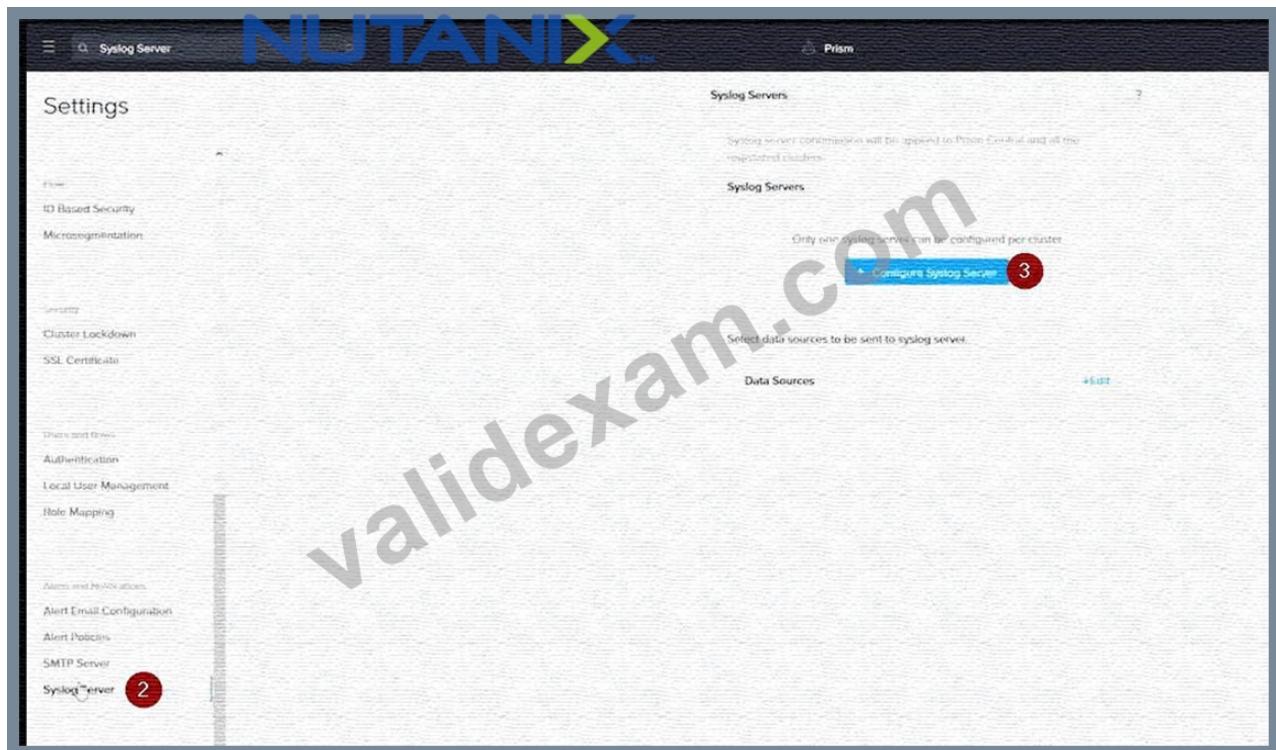
Explanation:

To configure the cluster to meet the requirements of the infosec team, you need to do the following steps:

Log in to Prism Central and go to Network > Syslog Servers > Configure Syslog Server. Enter Corp\_syslog as the Server Name, 34.69.43.123 as the IP Address, and 514 as the Port. Select TCP as the Transport Protocol and enable RELP (Reliable Logging Protocol). This will create a syslog server with the highest reliability possible.

Click Edit against Data Sources and select Cluster B as the cluster. Select API Requests and Replication as the data sources and set the log level to CRITICAL for both of them. This will enable audit logs for API requests and replication capabilities for the top 4 severity levels (EMERGENCY, ALERT, CRITICAL, and ERROR) and push them to the syslog server. Click Save.

Repeat step 2 for any other clusters that you want to configure with the same requirements.



### Syslog Servers

Server Name: **Corp\_syslog**

IP Address: **34.69.43.123**

Port: **514**

Transport Protocol:

UDP

TCP **4**

Enable RELP (Reliable Logging Protocol)

Back **Configure**

**NUTANIX**

Syslog server confirmation will be applied to Prism Central and all the registered clusters.

Name	Server IP
Corp_syslog	34.69.43.123

Select data sources to be sent to syslog server.

**Data Sources**

**+Edit**

To configure the Nutanix clusters to enable audit logs for API Requests and replication capabilities, and push them to the syslog system with the highest reliability possible, you can follow these steps:

Log in to the Nutanix Prism web console using your administrator credentials.

Navigate to the "Settings" section or the configuration settings interface within Prism.

Locate the "Syslog Configuration" or "Logging" option and click on it.

Configure the syslog settings as follows:

Syslog Name: Enter "Corp\_syslog" as the name for the syslog configuration.

Syslog IP: Set the IP address to "34.69.43.123", which is the IP address of the syslog system.

Port: Set the port to "514", which is the default port for syslog.

Enable the option for highest reliability or persistent logging, if available. This ensures that logs are sent reliably and not lost in case of network interruptions.

Save the syslog configuration.

Enable Audit Logs for API Requests:

In the Nutanix Prism web console, navigate to the "Cluster" section or the cluster management interface.

Select the desired cluster where you want to enable audit logs.

Locate the "Audit Configuration" or "Security Configuration" option and click on it.

Look for the settings related to audit logs and API requests. Enable the audit logging feature and select the top 4 severity levels to be logged.

Save the audit configuration.

Enable Audit Logs for Replication Capabilities:

In the Nutanix Prism web console, navigate to the "Cluster" section or the cluster management interface.

Select the desired cluster where you want to enable audit logs.

Locate the "Audit Configuration" or "Security Configuration" option and click on it.

Look for the settings related to audit logs and replication capabilities. Enable the audit logging feature and select the top 4 severity levels to be logged.

Save the audit configuration.

After completing these steps, the Nutanix clusters will be configured to enable audit logs for API Requests and replication capabilities. The logs will be sent to the specified syslog system with the highest reliability possible.

ncli

```

<ncli> rsyslog-config set-status enable=false
<ncli> rsyslog-config add-server name=Corp_Syslog ip-address=34.69.43.123 port=514 network- protocol=tcp rsyslog-enabled=false
<ncli> rsyslog-config add-module server-name= Corp_Syslog module-name=APLOS level=INFO
<ncli> rsyslog-config add-module server-name= Corp_Syslog module-name=CEREBRO level=INFO
<ncli> rsyslog-config set-status enable=true
https://portal.nutanix.com/page/documents/kbs/details?targetId=kA00e0000009CEECA2

```

## NEW QUESTION # 32

An administrator needs to configure a new write-intensive MS-SQL VM on Cluster 1.

VM specifications:

- \* vCPU: 12
- \* vRAM: 128GB
- \* Storage: 100 GB OS, 750 GB Data

Create the VM and any objects needed in the current environment to meet requirements, maximizing performance for the production environment. Include NEWSQL in the name of any new objects.

Production environment:

- \* 4 nodes
- \* Each node has two 8-core CPUs
- \* Each node has 1024 GB RAM
- \* Storage: 4 × 7.16 TB SSD Disks and 8 × 8 TB HDD disks

Make sure the VM is configured for maximum performance for the production environment.

Note: Network configuration is not required at this time. Do not power on the VM.

### Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to create the high-performance SQL VM on Cluster 1.

This task requires two phases: first, creating a new all-flash storage container, and second, creating the VM with a specific vNUMA and disk controller configuration for maximum performance.

#### 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. Create the All-Flash Storage Container

To maximize performance for a "write-intensive" workload on a hybrid cluster, the data and log disks must be placed on an all-flash container.

- \* In the Cluster 1 PE interface, click the gear icon (Settings) in the top-right corner.
- \* From the left-hand menu, select Storage.
- \* Click the + Storage Container button.
- \* Fill in the basic details:
- \* Name: NEWSQL\_Flash\_Container
- \* Click Advanced Settings.
- \* Scroll down to the Storage Tier section.
- \* Select the SSD radio button. This pins all data in this container to the SSD tier, ensuring all-flash performance.
- \* Click Save.

#### 3. Create and Configure the VM

Now, create the VM, applying vNUMA and multi-SCSI controller best practices.

- \* From the main PE dashboard, navigate to the VM view.
- \* Click the + Create VM button.
- \* Enter the compute details. This configuration is critical for vNUMA performance, as it tells the VM's guest OS about the underlying physical NUMA topology (2 CPUs with 8 cores each).
- \* Name: NEWSQL\_VM
- \* vCPUs: 12
- \* Number of Sockets: 2
- \* Cores per vCPU: 6 (This creates a 2-socket, 6-core VM, totaling 12 vCPUs)
- \* Memory: 128 GB
- \* Scroll down to the Disks section and add the OS disk:

- \* Click + Add New Disk.
- \* Storage Container: Select the default (hybrid) container.
- \* Size: 100 GB
- \* Bus: SCSI
- \* Device Index: 0 (This will be scsi.0)
- \* Click Add.
- \* Add the Data disk (on its own controller for parallel processing):
- \* Click + Add New Disk.
- \* Storage Container: Select NEWSQL\_Flash\_Container.
- \* Size: 750 GB
- \* Bus: SCSI
- \* Device Index: 1 (This creates a new controller, scsi.1)
- \* Click Add.
- \* Add a Log disk (on its own controller, a best practice for "write-intensive" SQL):
- \* Click + Add New Disk.
- \* Storage Container: Select NEWSQL\_Flash\_Container.
- \* Size: 100 GB (A common size for a log disk)
- \* Bus: SCSI
- \* Device Index: 2 (This creates a third controller, scsi.2)
- \* Click Add.
- \* Review the configuration: You should now have three disks attached, each on a separate controller (scsi.0, scsi.1, scsi.2). This provides the maximum I/O performance.
- \* Ensure the Power on VM after creation box is unchecked.
- \* Click Save.

## Topic 1, Performance Based Questions Set 1

### Environment

You have been provisioned a dedicated environment for your assessment which includes the following:

### Initial Steps

- \* When you first log into Prism Central or Prism Element you may see the EULA screen. Accept the EULA with any name and then disable Pulse.
- \* To access Prism Element, the pass-through from Prism Central (Infrastructure\Hardware\Clusters\cluster-x\Launch Prism Element) works better than directly using the external IP:9440.

### Workstation

- \* Windows Server 2019
- \* All software/tools/etc to perform the required tasks
- \* Nutanix Documentation and whitepapers can be found in Desktop\Files\Documentation and Desktop\Files\Documentation 6.10
- \* Note that the Workstation is the system you are currently logged into
- \* Windows Server 2019
- \* All software/tools/etc to perform the required tasks
- \* Nutanix Documentation and whitepapers can be found in Desktop\Files\Documentation and Desktop\Files\Documentation 6.10
- \* Note that the Workstation is the system you are currently logged into Nutanix Cluster
- \* There are two clusters provided, connected to one Prism Central. The connection information for the relevant cluster will be displayed to the right of the question. Please make sure you are working on the correct cluster for each item. Please ignore any licensing violations.

### Important Notes

- \* If the text is too small and hard to read, or you cannot see all of the GUI, you can increase/decrease the zoom of the browser with CTRL + and CTRL - (the plus and minus keys).



### Prism Central Web Console

- \* admin / ykZUCJMER7V\*
- \* nutanix / UJ2xEDEXGY

### Cluster 1

- \* CVM external IP: 34.53.118.63

- \* CVM DR IP: 172.30.0.6
- \* admin / 9Fw0B!3QH4X)
- \* nutanix / GNP\*FE2504XWZ
- \* root / KR\*6HY0z5E8

Cluster 2

- \* CVM external IP: 34.82.155.5
- \* CVM DR IP: 172.30.0.4
- \* admin / 5\*K30FA76X
- \* nutanix / N\*3F%1ME!Z7T9



### NEW QUESTION # 33

Use Prism Element for this question.

The Application team has a 3 tier application (App Server, Web Server, and Database Server) that is mission critical and requires as close to 0 RPO and RTO as possible with their current license level.

The organization has 2 clusters, with one cluster (Cluster 1) being production and the other cluster (Cluster 2) being remote/DR.

Cluster 2 should be able to fail back to Cluster 1.

The connectivity between the two sites is >5ms and replication traffic should not use more than 10Mbps of bandwidth. The Application team requests a plan that includes the ability to go back 2 days locally, and 2 days remotely.

The team also requests that all 3 VMs be treated as a single group and backed up collectively in a snapshot.

The three VMs are:

- \* Web-Prod
- \* App-Prod
- \* DB-Prod

Use Task3 as part of the name for any objects created for this task.

Note: VMs do NOT need to be powered on. You will need to use the 172.30.0.x IP addresses when configuring DR.

### Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to configure Disaster Recovery from the Cluster 1 Prism Element interface.

#### 1. Add Cluster 2 as a Remote Site

First, you must register Cluster 2 as a DR target for Cluster 1.

- \* From the Cluster 1 Prism Element dashboard, navigate to Data Protection from the main dropdown menu.
- \* Click the Remote Site tab.
- \* Click the + Remote Site button and select Physical Cluster.
- \* In the "Name" field, enter Cluster2\_DR\_Task3.
- \* In the "Address" field, enter the 172.30.0.x Virtual IP address of Cluster 2.
- \* Click Save. The clusters will exchange credentials and connect.

#### 2. Throttle Replication Bandwidth

Next, apply the 10 Mbps bandwidth limit for traffic going to Cluster 2.

- \* On the same Remote Site tab, select the newly created Cluster2\_DR\_Task3.
- \* Click the Update button.
- \* In the dialog, set the Bandwidth Limit to 10 Mbps.
- \* Click Save.

#### 3. Create the Protection Domain

A Protection Domain (PD) is the top-level object that will manage the VMs and replication schedules.

- \* In the Data Protection dashboard, click the Table tab.
- \* Click the + Protection Domain button and select Async DR.
- \* For the Name, enter App\_PD\_Task3.
- \* Click Create.

#### 4. Protect VMs in a Consistency Group

Now you will add the three application VMs to the new Protection Domain as a single Consistency Group (CG).

- \* You will be taken to the dashboard for the new App\_PD\_Task3. In the Entities panel, click the Protect Entities button.
- \* In the "Protect Entities" dialog, search for and select the three VMs:
- \* Web-Prod
- \* App-Prod
- \* DB-Prod
- \* Click Next.
- \* Select Create new consistency group and name it App\_CG\_Task3.
- \* Click Protect.

#### 5. Create the Replication Schedule

Finally, configure the schedule to meet the RPO and retention requirements.

- \* In the App\_PD\_Task3 dashboard, click the Schedules tab.
- \* Click the + New Schedule button.
- \* Remote Site: Select Cluster2\_DR\_Task3.
- \* RPO (Repeat every): Select NearSync. Set the RPO to 1 minute.
- \* Note: This is the lowest possible RPO for an Async (>5ms latency) connection, fulfilling the "as close to 0" requirement.
- \* Local Retention: Set to 2 Days.
- \* Remote Retention: Set to 2 Days.
- \* Ensure the "Store snapshots for 2-way replication" checkbox is enabled to allow failback from Cluster 2.
- \* Click Create Schedule.

### NEW QUESTION # 34

.....

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