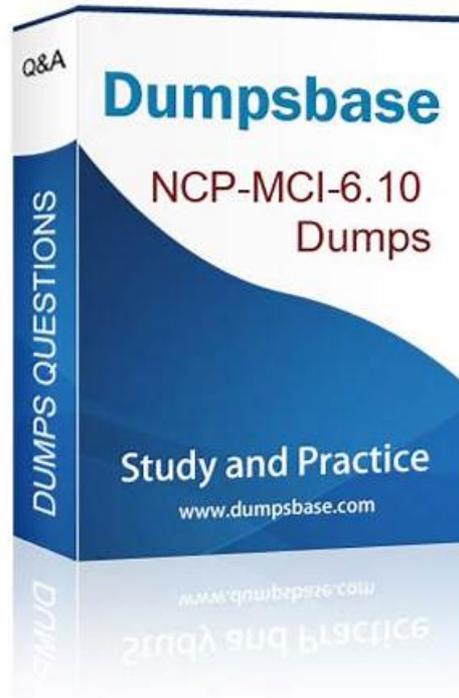


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## Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q28-Q33):

### NEW QUESTION # 28

#### Task 10

An administrator will be deploying Flow Networking and needs to validate that the environment, specifically switch vs1, is appropriately configured. Only VPC traffic should be carried by the switch.

Four versions each of two possible commands have been placed in Desktop\Files\Network\flow.txt. Remove the hash mark (#)

from the front of correct First command and correct Second command and save the file.

Only one hash mark should be removed from each section. Do not delete or copy lines, do not add additional lines. Any changes other than removing two hash marks (#) will result in no credit.

Also, SSH directly to any AHV node (not a CVM) in the cluster and from the command line display an overview of the Open vSwitch configuration. Copy and paste this to a new text file named Desktop\Files\Network\AHVswitch.txt.

Note: You will not be able to use the 192.168.5.0 network in this environment.

First command

```
#net.update_vpc_traffic_config virtual_switch=vs0
net.update_vpc_traffic_config virtual_switch=vs1
#net.update_vpc_east_west_traffic_config virtual_switch=vs0
#net.update_vpc_east_west_traffic_config virtual_switch=vs1
```

Second command

```
#net.update_vpc_east_west_traffic_config permit_all_traffic=true
net.update_vpc_east_west_traffic_config permit_vpc_traffic=true
#net.update_vpc_east_west_traffic_config permit_all_traffic=false
#net.update_vpc_east_west_traffic_config permit_vpc_traffic=false
```

**Answer:**

Explanation:

First, you need to open the Prism Central CLI from the Windows Server 2019 workstation. You can do this by clicking on the Start menu and typing "Prism Central CLI". Then, you need to log in with the credentials provided to you.

Second, you need to run the two commands that I have already given you in Desktop\Files\Network\flow.txt.

These commands are:

```
net.update_vpc_traffic_config virtual_switch=vs1 net.update_vpc_east_west_traffic_config permit_vpc_traffic=true
```

These commands will update the virtual switch that carries the VPC traffic to vs1, and update the VPC east-west traffic configuration to allow only VPC traffic. You can verify that these commands have been executed successfully by running the command:

```
net.get_vpc_traffic_config
```

This command will show you the current settings of the virtual switch and the VPC east-west traffic configuration.

Third, you need to SSH directly to any AHV node (not a CVM) in the cluster and run the command:

```
ovs-vsctl show
```

This command will display an overview of the Open vSwitch configuration on the AHV node. You can copy and paste the output of this command to a new text file named Desktop\Files\Network\AHVswitch.txt.

You can use any SSH client such as PuTTY or Windows PowerShell to connect to the AHV node. You will need the IP address and the credentials of the AHV node, which you can find in Prism Element or Prism Central.

remove # from greens

On AHV execute:

```
sudo ovs-vsctl show
```

CVM access AHV access command

```
nutanix@NTNX-A-CVM:192.168.10.5:~$ ssh root@192.168.10.2 "ovs-vsctl show" Open AHVswitch.txt and copy paste output
```

## NEW QUESTION # 29

Task 1

An administrator needs to configure storage for a Citrix-based Virtual Desktop infrastructure.

Two VDI pools will be created

Non-persistent pool named MCS\_Pool for tasks users using MCS Microsoft Windows 10 virtual Delivery Agents (VDAs)

Persistent pool named Persist\_Pool with full-clone Microsoft Windows 10 VDAs for power users

20 GiB capacity must be guaranteed at the storage container level for all power user VDAs The power user container should not be able to use more than 100 GiB Storage capacity should be optimized for each desktop pool.

Configure the storage to meet these requirements. Any new object created should include the name of the pool (s) (MCS and/or Persist) that will use the object.

Do not include the pool name if the object will not be used by that pool.

Any additional licenses required by the solution will be added later.

**Answer:**

Explanation:

See the Explanation for step by step solution.

Explanation:

To configure the storage for the Citrix-based VDI, you can follow these steps:

Log in to Prism Central using the credentials provided.

Go to Storage > Storage Pools and click on Create Storage Pool.

Enter a name for the new storage pool, such as VDI\_Storage\_Pool, and select the disks to include in the pool.

You can choose any combination of SSDs and HDDs, but for optimal performance, you may prefer to use more SSDs than HDDs.

Click Save to create the storage pool.

Go to Storage > Containers and click on Create Container.

Enter a name for the new container for the non-persistent pool, such as MCS\_Pool\_Container, and select the storage pool that you just created, VDI\_Storage\_Pool, as the source.

Under Advanced Settings, enable Deduplication and Compression to reduce the storage footprint of the non-persistent desktops.

You can also enable Erasure Coding if you have enough nodes in your cluster and want to save more space. These settings will help you optimize the storage capacity for the non-persistent pool.

Click Save to create the container.

Go to Storage > Containers and click on Create Container again.

Enter a name for the new container for the persistent pool, such as Persist\_Pool\_Container, and select the same storage pool, VDI\_Storage\_Pool, as the source.

Under Advanced Settings, enable Capacity Reservation and enter 20 GiB as the reserved capacity. This will guarantee that 20 GiB of space is always available for the persistent desktops. You can also enter 100 GiB as the advertised capacity to limit the maximum space that this container can use. These settings will help you control the storage allocation for the persistent pool.

Click Save to create the container.

Go to Storage > Datastores and click on Create Datastore.

Enter a name for the new datastore for the non-persistent pool, such as MCS\_Pool\_Datastore, and select NFS as the datastore type. Select the container that you just created, MCS\_Pool\_Container, as the source.

Click Save to create the datastore.

Go to Storage > Datastores and click on Create Datastore again.

Enter a name for the new datastore for the persistent pool, such as Persist\_Pool\_Datastore, and select NFS as the datastore type.

Select the container that you just created, Persist\_Pool\_Container, as the source.

Click Save to create the datastore.

The datastores will be automatically mounted on all nodes in the cluster. You can verify this by going to Storage > Datastores and clicking on each datastore. You should see all nodes listed under Hosts.

You can now use Citrix Studio to create your VDI pools using MCS or full clones on these datastores. For more information on how to use Citrix Studio with Nutanix Acropolis, see Citrix Virtual Apps and Desktops on Nutanix or Nutanix virtualization environments.

## Create Storage Container

? X

Name

ST\_MCS\_Pool

Storage Pool

Storage\_Pool

Max Capacity

53.26 TiB (Physical) Based on storage pool free unreserved capacity

### Advanced Settings

Replication Factor ⓘ

2

Reserved Capacity

20

GiB

Advertised Capacity

Total GiB

GiB

Compression

Perform post-process compression of all persistent data. For inline compression, set the delay to 0.

Delay (in minutes)

0

Deduplication

Cache

Perform inline deduplication of read caches to optimize performance.

Capacity

Perform post-process deduplication of persistent data.

Erasure Coding ⓘ

Enable

Erasure coding enables capacity savings across solid-state drives and hard disk drives.

Filesystem Whitelists

Enter comma-separated entries

⚙️ Advanced Settings

Cancel

Save

## Create Storage Container

? X

Name

ST\_Persist\_Pool

Storage Pool

Storage Pool

NUTANIX

## Max Capacity

**53.26 TiB** (Physical) Based on storage pool free unreserved capacity

## Advanced Settings

Replication Factor [?](#)

Reserved Capacity

 GiB

Advertised Capacity

 GiB

Compression

Perform post-process compression of all persistent data. For inline compression, set the delay to 0.

Delay (in minutes)

Deduplication

Cache

Perform inline deduplication of read caches to optimize performance.

Capacity

Perform post-process deduplication of persistent data.

Erasure Coding [?](#)

Enable

Erasure coding enables capacity savings across solid-state drives and hard disk drives.

Filesystem Whitelists



<https://portal.nutanix.com/page/documents/solutions/details?targetId=BP-2079-Citrix-Virtual-Apps-and-Desktops:bp-nutanix-storage-configuration.html>

### NEW QUESTION # 30

Task 12

The application team is reporting performance degradation for a business-critical application that runs processes all day on Saturdays.

The team is requesting monitoring of processor, memory and storage utilization for the three VMs that make up the database cluster for the application: ORA01, ORA02 and ORA03.

The report should contain tables for the following:

At the cluster level, only for the current cluster:

The maximum percentage of CPU used

At the VM level, including any future VM with the prefix ORA:

The maximum time taken to process I/O Read requests

The Maximum percentage of time a VM waits to use physical CPU, out of the local CPU time allotted to the VM.

The report should run on Sundays at 12:00 AM for the previous 24 hours. The report should be emailed to [appdev@cyberdyne.net](mailto:appdev@cyberdyne.net) when completed.

Create a report named Weekends that meets these requirements

Note: You must name the report Weekends to receive any credit. Any other objects needed can be named as you see fit. SMTP is not configured.

### Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

To create a report named Weekends that meets the requirements, 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 Report.

Enter Weekends as the report name and a description if required. Click Next.

Under the Custom Views section, select Data Table. Click Next.

Under the Entity Type option, select Cluster. Click Next.

Under the Custom Columns option, add the following variable: CPU Usage (%). Click Next.

Under the Aggregation option for CPU Usage (%), select Max. Click Next.

Under the Filter option, select Current Cluster from the drop-down menu. Click Next.

Click on Add to add this custom view to your report. Click Next.

Under the Custom Views section, select Data Table again. Click Next.

Under the Entity Type option, select VM. Click Next.

Under the Custom Columns option, add the following variables: Name, I/O Read Latency (ms), VM Ready Time (%). Click Next.

Under the Aggregation option for I/O Read Latency (ms) and VM Ready Time (%), select Max. Click Next.

Under the Filter option, enter ORA\* in the Name field. This will include any future VM with the prefix ORA.

Click Next.

Click on Add to add this custom view to your report. Click Next.

Under the Report Settings option, select Weekly from the Schedule drop-down menu and choose Sunday as the day of week. Enter 12:00 AM as the time of day. Enter [appdev@cyberdyne.net](mailto:appdev@cyberdyne.net) as the Email Recipient.

Select CSV as the Report Output Format. Click Next.

Review the report details and click Finish.

### NEW QUESTION # 31

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 # 32**

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 # 33

.....

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