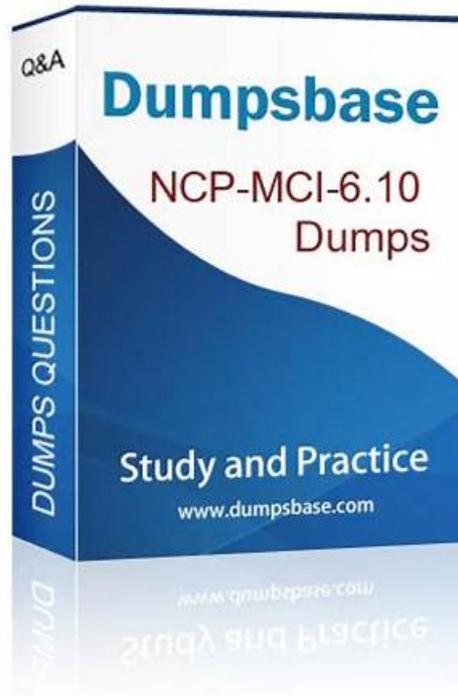


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## Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q18-Q23):

## NEW QUESTION # 18

### Task 7

An administrator has been informed that a new workload requires a logically segmented network to meet security requirements.

Network configuration:

VLAN: 667

Network: 192.168.0.0

Subnet Mask: 255.255.255.0

DNS server: 34.82.231.220

Default Gateway: 192.168.0.1

Domain: cyberdyne.net

IP Pool: 192.168.9.100-200

DHCP Server IP: 192.168.0.2

Configure the cluster to meet the requirements for the new workload if new objects are required, start the name with 667.

### Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

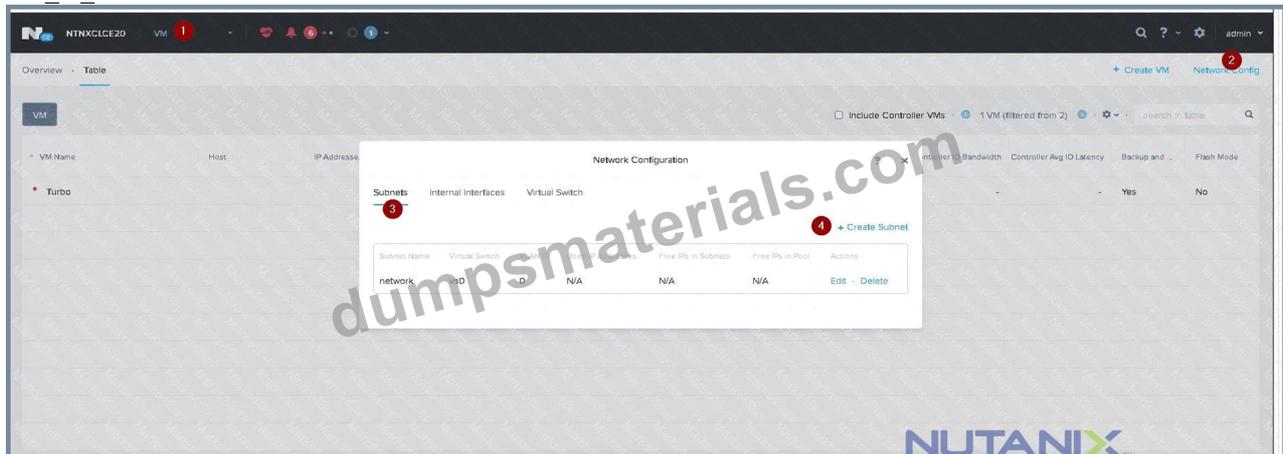
To configure the cluster to meet the requirements for the new workload, you need to do the following steps:

Create a new VLAN with ID 667 on the cluster. You can do this by logging in to Prism Element and going to Network Configuration > VLANs > Create VLAN. Enter 667 as the VLAN ID and a name for the VLAN, such as 667\_VLAN.

Create a new network segment with the network details provided. You can do this by logging in to Prism Central and going to Network > Network Segments > Create Network Segment. Enter a name for the network segment, such as 667\_Network\_Segment, and select 667\_VLAN as the VLAN. Enter 192.168.0.0 as the Network Address and 255.255.255.0 as the Subnet Mask. Enter 192.168.0.1 as the Default Gateway and 34.82.231.220 as the DNS Server. Enter cyberdyne.net as the Domain Name.

Create a new IP pool with the IP range provided. You can do this by logging in to Prism Central and going to Network > IP Pools > Create IP Pool. Enter a name for the IP pool, such as 667\_IP\_Pool, and select 667\_Network\_Segment as the Network Segment. Enter 192.168.9.100 as the Starting IP Address and 192.168.9.200 as the Ending IP Address.

Configure the DHCP server with the IP address provided. You can do this by logging in to Prism Central and going to Network > DHCP Servers > Create DHCP Server. Enter a name for the DHCP server, such as 667\_DHCP\_Server, and select 667\_Network\_Segment as the Network Segment. Enter 192.168.0.2 as the IP Address and select 667\_IP\_Pool as the IP Pool.



### Create Subnet

DHCP Settings

Domain Name Servers (Comma Separated)  
 10

Domain Search (Comma Separated)  
 11

Domain Name  
 12

TFTP Server Name

Boot File Name

IP Address Pools

### Create Subnet

Domain Name

TFTP Server Name

Boot File Name

IP Address Pools

13

No pools added.

Override DHCP server

### NEW QUESTION # 19

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 # 20

A company who offers Infrastructure as a Service needs to onboard a new customer. The new customer requires a dedicated cloud

plan which tolerates two host failures.

The customer is planning to move current workloads in three waves, with three months between waves starting today:

- \* Wave One: 100 VMs
- \* Wave Two: 50 VMs
- \* Wave Three: 20 VMs

Workload profile is:

- \* vCPU: 4
- \* vRAM: 16 GB
- \* Storage: 200 GB

The service provider company needs to estimate required resources upfront, to accommodate customer requirements, considering also that:

- \* limit the number of total nodes
- \* selected system vendor HPE
- \* selected model DX365-10-G11-NVMe
- \* full-flash node (including NVMe + SSD)
- \* 12 months runway

Create and save the scenario as IaaS and export to the desktop, name the file IaaS-requirement.pdf Note: You must export the PDF to the desktop as IaaS-requirement.pdf to receive any credit.

### Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to create and export the capacity planning scenario. This task is performed within Prism Central.

1. Navigate to the Planning Dashboard

- \* From the Prism Central main menu (hamburger icon), navigate to Operations > Planning.

2. Create and Define the Scenario

- \* Click the + Create Scenario button.

\* In the dialog box:

\* Scenario Name: IaaS

\* Scenario Type: Select New Workload

\* Click Create. This will open the scenario editor.

3. Configure Cluster and Runway Settings

\* In the "IaaS" scenario editor, find the Runway setting (top left) and set it to 12 Months.

\* Find the Cluster configuration tile and click Edit.

\* Set Number of Host Failures to Tolerate to 2.

\* Click Save.

4. Define the Workload Profile

\* In the Workloads section, click the + Add Workload button.

\* Select Create a new workload profile.

\* Fill in the VM specifications:

\* Workload Name: Customer-VM (or similar)

\* vCPU per VM: 4

\* Memory per VM: 16 GB

\* Storage per VM: 200 GB

\* Click Add.

5. Set the Workload Growth Plan (Waves)

\* You will be returned to the main scenario editor. In the timeline section ("Workload Plan"), add the VMs:

\* Wave One (Today):

\* Click + Add under the "Today" column.

\* Select the Customer-VM profile.

\* Enter 100 VMs.

\* Click Add.

\* Wave Two (3 Months):

\* Click the + icon on the timeline itself.

\* Set the date to 3 Months from today.

\* Click + Add under this new "3 Months" column.

\* Select the Customer-VM profile.

\* Enter 50 VMs.

\* Click Add.

- \* Wave Three (6 Months):
  - \* Click the + icon on the timeline.
  - \* Set the date to 6 Months from today.
  - \* Click + Add under this new "6 Months" column.
  - \* Select the Customer-VM profile.
  - \* Enter 20 VMs.
  - \* Click Add.
6. Select the Hardware
- \* In the Hardware configuration tile, click Change Hardware.
  - \* In the "Select Hardware" pane:
  - \* Vendor: Select HPE.
  - \* Model: Search for and select DX365-10-G11-NVMe.
  - \* Note: This model is full-flash by definition, satisfying the requirement.
  - \* Click Done. The planner will recalculate the required nodes.
7. Save and Export the Scenario
- \* Click the Save icon (floppy disk) in the top-right corner to save the IaaS scenario.
  - \* Click the Export icon (arrow pointing down) in the top-right corner.
  - \* Select PDF from the dropdown menu.
  - \* A "Save As" dialog will appear.
  - \* Navigate to the Desktop.
  - \* Set the file name to IaaS-requirement.pdf.
  - \* Click Save.

#### **NEW QUESTION # 21**

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 / UJ2xE!DEXGY

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 # 22

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 # 23

.....

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