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## Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q21-Q26):

### NEW QUESTION # 21

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 # 22

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 # 23

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 # 24

### Task 8

An administrator has environment that will soon be upgraded to 6.5. In the meantime, they need to implement log and apply a security policy named Staging\_Production, such that no VM in the Staging Environment can communicate with any VM in the production Environment, Configure the environment to satisfy this requirement.

Note: All other configurations not indicated must be left at their default values.

**Answer:**

Explanation:

See the Explanation for step by step solution.

Explanation:

To configure the environment to satisfy the requirement of implementing a security policy named Staging\_Production, such that no VM in the Staging Environment can communicate with any VM in the production Environment, you need to do the following steps:



Log in to Prism Central and go to Network > Security Policies > Create Security Policy. Enter Staging\_Production as the name of the security policy and select Cluster A as the cluster.

In the Scope section, select VMs as the entity type and add the VMs that belong to the Staging Environment and the Production Environment as the entities. You can use tags or categories to filter the VMs based on their environment.

In the Rules section, create a new rule with the following settings:

Direction: Bidirectional

Protocol: Any

Source: Staging Environment

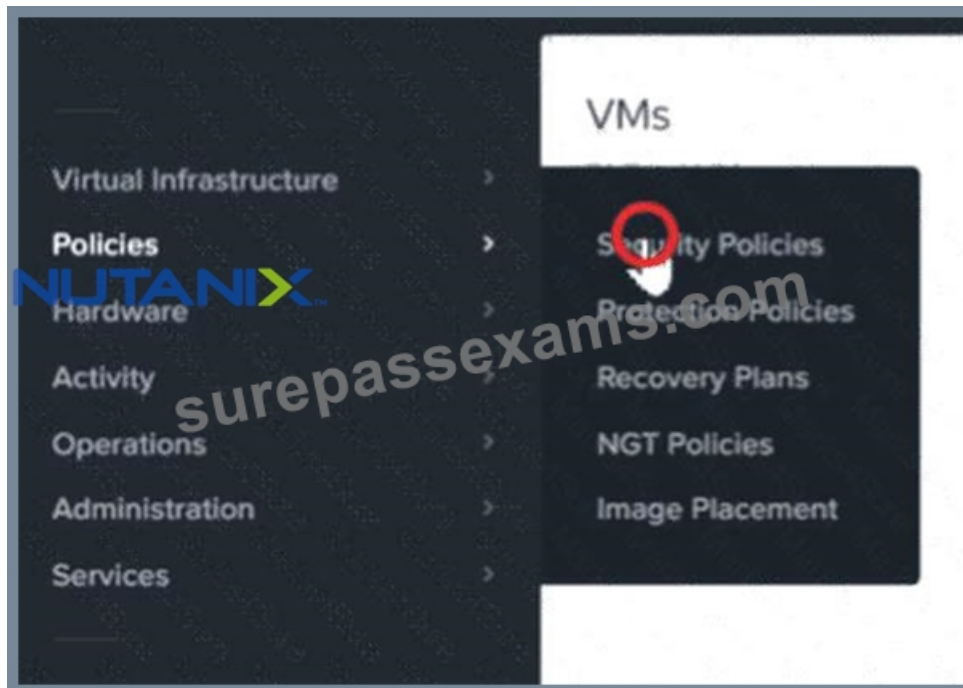
Destination: Production Environment

Action: Deny

Save the security policy and apply it to the cluster.

This will create a security policy that will block any traffic between the VMs in the Staging Environment and the VMs in the Production Environment. You can verify that the security policy is working by trying to ping or access any VM in the Production Environment from any VM in the Staging Environment, or vice versa.

You should not be able to do so.





Name

Staging\_Production

Purpose

Isolate Staging\_Production

NUTANIX

Isolate This Category

Environment: Staging

From This Category

Environment: Production

☐ Apply the isolation only within a subset of the data center

Advanced Configuration

Policy Hit Logs ☐ Disabled

Cancel Apply Now Save and Monitor

NUTANIX

To enforce the policy, check the box next to the policy, choose Actions, then Apply.

1 Staging\_Production Isolate HR from IT Environment: Staging Environment: Production Monitoring few seconds ago

## NEW QUESTION # 25

### 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 # 26

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