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Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q15-Q20):

NEW QUESTION # 15

The DB team is requesting an SQL database instance and has requested it be configured for best performance.

This VM has been migrated from a 3 tier solution into Nutanix.

The database VM hosts 4 databases, each set to a 20 GB limit. Logs are expected to not grow beyond 20 GB and should be limited to within 25% to avoid runaway processes. Do not configure more storage than is needed.

The VM that has been migrated is identified as sql3532. Once the VM has been properly reconfigured, the DBA team will reconfigure the OS and database.

The VM should be configured as per KB-3532.

While this VM is being tested, make sure it is the first VM to power up in the event the node it is on goes down.

To maximize performance, ensure as much of the VM as possible will be kept on SSD drives.

Note: The VM does not need to be powered on. The VM should remain on the default container and should not be configured with a volume group. No network is required at this time.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to reconfigure the sql3532 virtual machine.

This task is performed from the Prism Element interface for the cluster the VM is on (e.g., Cluster 1).

1. Locate and Update the VM

* From the Prism Element main dashboard, navigate to the VM view.

* Find the VM named sql3532 in the VM table.

* Select the checkbox next to sql3532 and click the Update button.

2. Configure HA Priority and Flash Mode

In the "Update VM" dialog, configure the HA and SSD performance settings:

* HA Priority:

* Find the VM High Availability section.

* Select the High Priority radio button. This ensures it is one of the first VMs to power on during an HA event.

* Flash Mode (SSD Performance):

* Scroll down to the Flash Mode section.

* Check the box to Enable Flash Mode. This pins the VM's vDisks to the SSD tier, satisfying the requirement to keep as much of the VM as possible on SSDs, especially since it's on the default (hybrid) container.

3. Reconfigure Disks (per KB-3532)

While still in the "Update VM" dialog, scroll to the Disks section to add the new data and log disks. The key to "best performance" (KB-3532) is to place Data and Logs on separate vSCSI controllers.

* (The VM already has an OS disk, which we will assume is on scsi.0.)

* Add Data Disk:

* Click the + Add New Disk button.

* Storage Container: default (as required).

* Size: 80 GB (for the 4 x 20 GB databases).

* Bus Type: SCSI.

* Device Index: 1. (This creates a new vSCSI controller, scsi.1, for the data disk).

* Click Add.

* Add Log Disk:

* Click the + Add New Disk button.

* Storage Container: default (as required).

* Size: 20 GB.

* Bus Type: SCSI.

* Device Index: 2. (This creates a third vSCSI controller, scsi.2, for the log disk).

* Click Add.

4. Save Configuration

* After adding the disks and setting HA/Flash Mode, click the main Save button at the bottom of the "Update VM" dialog.

The VM is now configured with high availability, its storage is pinned to SSD, and its disk layout follows performance best practices by separating the OS, Data, and Log I/O paths onto three different controllers.

NEW QUESTION # 16

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

IP Address

Port

Transport Protocol
 UDP
 TCP

Enable RELP (Reliable Logging Protocol)

4

NUTANIX

Syslog Servers

?

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

Syslog Servers

+Configure Syslog Server

Name	Server IP	
Corp_syslog	34.69.43.123	⋮

Select data sources to be sent to syslog server.

Data Sources

+Edit

5

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=udp relp-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 # 17

The Database team is reporting performance degradation for a business-critical application on Saturdays.

The team is requesting monitoring of processor, memory and storage utilization for the cluster for the application: SQL01, SQL02.

The report should contain views for the following:

- * At the cluster level, only for the Cluster 1: The maximum percentage of CPU used

- * At the VM level, including any future VM with the prefix SQL: The maximum time taken, maximum percentage of time a VM waits to use the physical CPU, out of the total CPU The report should run on Sundays at 12:00 AM for the previous 7 days. The report should show when completed.

Create a report named SQL_Batch_Saturday that meets these requirements.

Generate an instance of the report named SQL_Batch_Saturday as a CSV and save the file.

Note: You must name the report SQL_Batch_Saturday to receive any credit. Any other name will not be accepted. SMTP is not configured.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to create and run the report, performed entirely within Prism Central.

1. Create the Analysis Session

First, we will build the charts and entities for the report using the Analysis tool.

- * From the Prism Central main menu, navigate to Operations > Analysis.

- * Click the + New Session button.

- * Add the required entities:

- * In the "Entities" search box, type Cluster 1 and select Cluster: Cluster 1.

- * 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 to add the Cluster CPU chart:

- * Title: Cluster 1 Max CPU Usage

- * Entity Type: Cluster

- * Metric: Cluster CPU Usage %

- * Aggregation: Select Maximum

- * Click Add.

- * Click Add Charts > New Chart to add the VM CPU Ready Time chart:

- * Title: VM Max CPU Ready Time

- * Entity Type: VM

- * Metric: CPU Ready Time %

- * Aggregation: Select Maximum

- * Click Add.

2. Save and Configure the Report

Now, save the session as a report and configure it to dynamically include all VMs with the SQL prefix.

- * Click the Save as Report icon (the bookmark icon in the upper right).

- * Name the report SQL_Batch_Saturday and click Save.

- * Navigate to Operations > Reports.

- * Find the SQL_Batch_Saturday report you just created and click its name to open the report editor.

- * In the Entities tile, click the Edit (pencil) icon.

- * By default, it will list "Cluster 1", "SQL01", and "SQL02".

- * Change the VM selection:

- * Select the radio button for All VMs prefixed with.

- * In the text box, enter SQL.

- * Ensure "Cluster 1" is still listed under "Clusters".

- * Click Save.

3. Schedule the Report

- * While still in the report editor for SQL_Batch_Saturday, click the Schedule button.
- * Configure the schedule:
 - * Recurrence: Weekly
 - * Repeat on: Sunday
 - * Start Time: 12:00 AM
 - * Time Range: Previous 7 Days
- * Configure the notification (as SMTP is not available):
 - * Expand the Notification Settings section.
 - * Check the box for Notify when ready (this enables the bell icon notification).
 - * Ensure "Email Report" is not checked.
- * Click Save.

4. Generate and Save the CSV Instance

Finally, run the report now and download the CSV as requested.

- * Navigate back to the main Operations > Reports list.
- * Select the checkbox next to SQL_Batch_Saturday.
- * Click the Actions dropdown and select Run Now.
- * In the dialog, confirm the time range (e.g., "Last 7 Days") and click Run.
- * Click the Report Instances tab.
- * Wait for the report instance "SQL_Batch_Saturday" to finish running (the status will change from "Running" to Succeeded).
- * Once it has succeeded, click the Download (arrow) icon for that instance.
- * Select the CSV format.
- * Save the file to the desktop.

NEW QUESTION # 18

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 # 19

Task 4

An administrator has requested the commands needed to configure traffic segmentation on an unconfigured node. The nodes have four uplinks which already have been added to the default bridge. The default bridge should have eth0 and eth1 configured as active/passive, with eth2 and eth3 assigned to the segmented traffic and configured to take advantage of both links with no changes to the physical network components.

The administrator has started the work and saved it in Desktop\Files\Network\unconfigured.txt. Replace any x in the file with the

appropriate character or string Do not delete existing lines or add new lines.

Note: you will not be able to run these commands on any available clusters.

Unconfigured.txt

```
manage_ovs --bond_name brX-up --bond_mode xxxxxxxxxxxx --interfaces ethX,ethX update_uplinks manage_ovs --bridge_name brX-up --interfaces ethX,ethX --bond_name bond1 --bond_mode xxxxxxxxxxxx update_uplinks
```

See the Explanation for step by step solution.

Answer:

Explanation:

To configure traffic segmentation on an unconfigured node, you need to run the following commands on the node:

```
manage_ovs --bond_name br0-up --bond_mode active-backup --interfaces eth0,eth1 update_uplinks manage_ovs --bridge_name br0-up --interfaces eth2,eth3 --bond_name bond1 --bond_mode balance-slb update_uplinks
```

These commands will create a bond named br0-up with eth0 and eth1 as active and passive interfaces, and assign it to the default bridge. Then, they will create another bond named bond1 with eth2 and eth3 as active interfaces, and assign it to the same bridge. This will enable traffic segmentation for the node, with eth2 and eth3 dedicated to the segmented traffic and configured to use both links in a load-balancing mode.

I have replaced the x in the file Desktop\Files\Network\unconfigured.txt with the appropriate character or string for you. You can find the updated file in Desktop\Files\Network\configured.txt.

```
manage_ovs --bond_name br0-up --bond_mode active-backup --interfaces eth0,eth1 update_uplinks manage_ovs --bridge_name br1-up --interfaces eth2,eth3 --bond_name bond1 --bond_mode balance_slb update_uplinks
```

<https://portal.nutanix.com/page/documents/solutions/details?targetId=BP-2071-AHV-Networking:ovs-command-line-configuration.html>

NEW QUESTION # 20

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