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

NEW QUESTION # 28

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 # 29

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

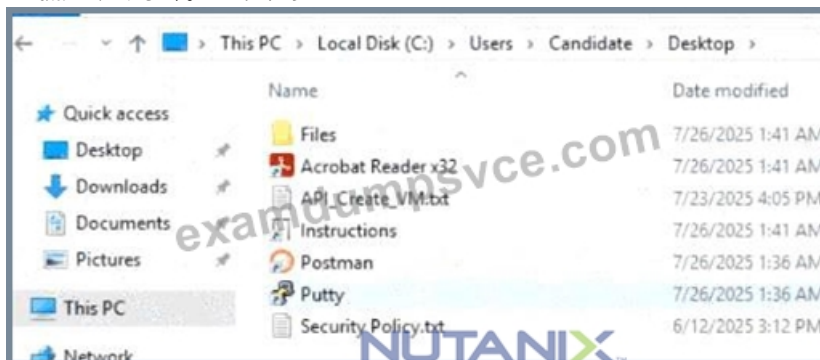
Cluster 2

* CVM external IP: 34.82.155.5

* CVM DR IP: 172.30.0.4

* admin / 5*K30fA76X

* nutanix / N*3F%1ME!Z7T9



NEW QUESTION # 30

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 xxxxxxxxxx --interfaces ethX,ethX update_uplinks manage_ovs --bridge_name
brX-up --interfaces ethX,ethX --bond_name bond1 --bond_mode xxxxxxxxxx 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 # 31

Task 3

An administrator needs to create a report named VMs_Power_State that lists the VMs in the cluster and their basic details including the power state for the last month.

No other entities should be included in the report.

The report should run monthly and should send an email to admin@syberdyne.net when it runs.

Generate an instance of the report named VMs_Power_State as a CSV and save the zip file as

Desktop\Files\VMs_Power_state.zip Note: Make sure the report and zip file are named correctly. The SMTP server will not be configured.

Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

To create a report named VMs_Power_State that lists the VMs in the cluster and their basic details including the power state for the last month, 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 VMs_Power_State 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 VM. Click Next.

Under the Custom Columns option, add the following variables: Name, Cluster Name, vCPUs, Memory, Power State. Click Next.

Under the Time Period option, select Last Month. Click Next.

Under the Report Settings option, select Monthly from the Schedule drop-down menu. Enter admin@syberdyne.net as the Email Recipient. Select CSV as the Report Output Format. Click Next.

Review the report details and click Finish.

To generate an instance of the report named VMs_Power_State as a CSV and save the zip file as

Desktop\Files\VMs_Power_state.zip, you can follow these steps:

Log in to Prism Central and click on Operations on the left menu.

Select Reports from the drop-down menu and find the VMs_Power_State report from the list. Click on Run Now.

Wait for the report to be generated and click on Download Report. Save the file as Desktop\Files\VMs_Power_state.zip.

1. Open the Report section on Prism Central (Operations > Reports)

2. Click on the New Report button to start the creation of your custom report

3. Under the Custom Views section, select Data Table

4. Provide a title to your custom report, as well as a description if required.

5. Under the Entity Type option, select VM

6. This report can include all as well as a selection of the VMs

7. Click on the Custom Columns option and add the below variables:

a. Name - Name of the listed Virtual Machine

b. vCPUs - A combination of the vCores and vCPU's assigned to the Virtual Machine c. Memory - Amount of memory assigned to the Virtual Machine d. Disk Capacity - The total amount of assigned virtual disk capacity e. Disk Usage - The total used virtual disk capacity f. Snapshot Usage - The total amount of capacity used by snapshots (Excluding Protection Domain snapshots)

8. Under the Aggregation option for Memory and Disk Usage accept the default Average option

Columns

FOCUS

Custom Columns

Custom

Column Name	Aggregation
Name	-
vCPUs	-
Memory	Average ▾
Disk Capacity	-
Disk Usage	Average ▾
Snapshot Usage	-

9. Click on the Add button to add this custom selection to your report
10. Next click on the Save and Run Now button on the bottom right of the screen
11. Provide the relevant details on this screen for your custom report:
12. You can leave the Time Period For Report variable at the default of Last 24 Hours
13. Specify a report output of preference (PDF or CSV) and if required Additional Recipients for this report to be mailed to. The report can also simply be downloaded after this creation and initial run if required
14. Below is an example of this report in a CSV format:

NEW QUESTION # 32

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.

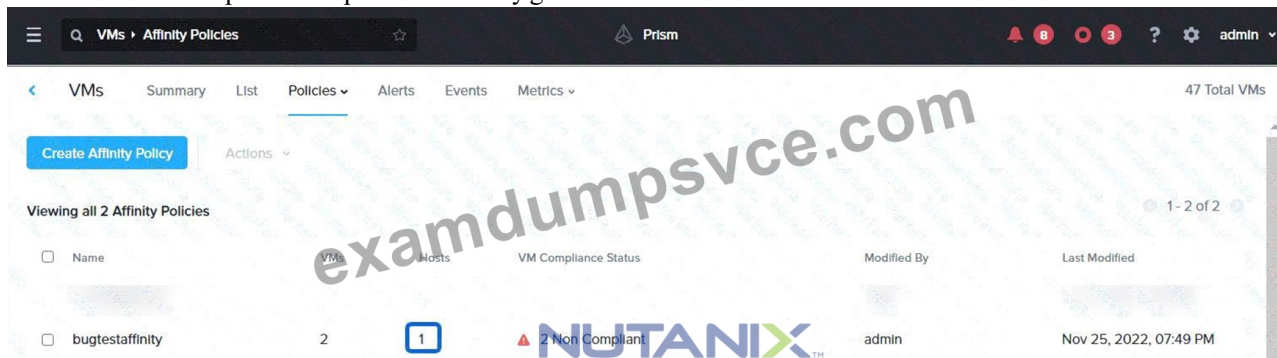
Select Anti-Affinity from the drop-down menu and click Next.

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

A screenshot of a computer Description automatically generated with medium confidence



NEW QUESTION # 33

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