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Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q16-Q21):

NEW QUESTION # 16

Task 11

Running NCC on a cluster prior to an upgrade results in the following output FAIL: CVM System Partition /home usage at 93% (greater than threshold, 90%) Identify the CVM with the issue, remove the file causing the storage bloat, and check the health again by running the individual disk usage health check only on the problematic CVM do not run NCC health check Note: Make sure only the individual health check is executed from the affected node

Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

To identify the CVM with the issue, remove the file causing the storage bloat, and check the health again, 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 find the NCC health check output file from the list.

You can use the date and time information to locate the file. The file name should be something like ncc- output-YYYY-MM-DD-HH-MM-SS.log.

Open the file and look for the line that says FAIL: CVM System Partition /home usage at 93% (greater than threshold, 90%). Note down the IP address of the CVM that has this issue. It should be something like X.X.X.

X.

Log in to the CVM using SSH or console with the username and password provided.

Run the command du -sh /home/* to see the disk usage of each file and directory under /home. Identify the file that is taking up most of the space. It could be a log file, a backup file, or a temporary file. Make sure it is not a system file or a configuration file that is needed by the CVM.

Run the command rm -f /home/<filename> to remove the file causing the storage bloat. Replace <filename> with the actual name of the file.

Run the command ncc health_checks hardware_checks disk_checks disk_usage_check --cvm_list=X.X.X.

X to check the health again by running the individual disk usage health check only on the problematic CVM.

Replace X.X.X with the IP address of the CVM that you noted down earlier.

Verify that the output shows PASS: CVM System Partition /home usage at XX% (less than threshold, 90%).

This means that the issue has been resolved.

#access to CVM IP by Putty

allssh df -h #look for the path /dev/sdb3 and select the IP of the CVM

ssh CVM_IP

ls

cd software_downloads

ls

cd nos

ls -l -h

rm files_name

df -h

ncc health_checks hardware_checks disk_checks disk_usage_check

NEW QUESTION # 17

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 # 18

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 / UJ2xEDEXGY

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

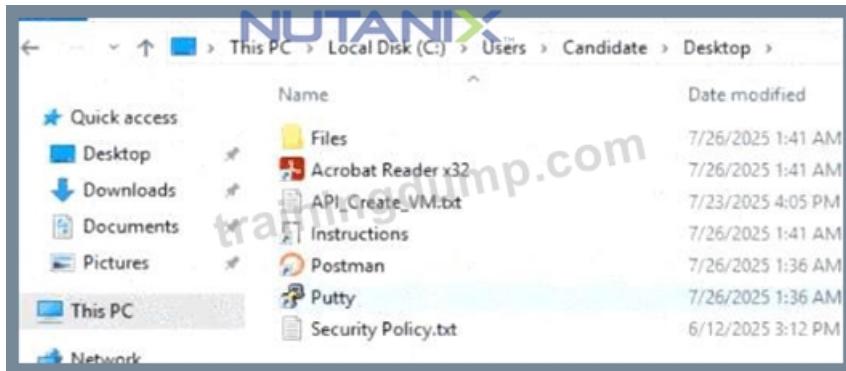
Cluster 2

* CVM external IP: 34.82.155.5

* CVM DR IP: 172.30.0.4

* admin / 5*K30fA76X

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



NEW QUESTION # 19

Following new security guidelines, it must be ensured that the storage of critical virtual machines will be encrypted in future.

The assignment is to be made by a new category called VM-Storage with a value of softwareencrypted in Prism Central. Make sure a second value of SEDencrypted is also created for future use.

Create the above-mentioned category and perform further configurations in Prism Central for VM-based storage encryption.

Assign the name Encrypted-Storage to the newly created policy.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to create the category and the corresponding storage encryption policy within Prism Central.

1. Create the Category

First, you must create the category and the two values requested.

* In Prism Central, navigate to Administration > Categories.

* Click New Category.

* In the Name field, enter VM-Storage.

* In the Add a Value field, type softwareencrypted and click the Add (plus) button.

* In the Add a Value field again, type SEDencrypted and click the Add (plus) button.

* Click Save.

2. Create the Encryption Policy

Next, you will create the security policy that uses the new category.

* In Prism Central, navigate to Security > Data-at-Rest Encryption.

* Click the + Create Security Policy button.

* In the Policy Name field, enter Encrypted-Storage.

* Ensure the Encryption Type is set to Software-based.

* For Target VMs, select the radio button for VMs matching a category.

* In the Select Category dropdown, choose the VM-Storage category you just created.

* In the Select Value dropdown, choose softwareencrypted.

* Click Save.

This policy will now automatically apply software-based encryption to any new or existing VMs that are assigned the VM-Storage: softwareencrypted category.

NEW QUESTION # 20

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 or 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 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 as the Email Recipient.

Select CSV as the Report Output Format. Click Next.

Review the report details and click Finish.

NEW QUESTION # 21

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In recent years, some changes are taking place in this line about the new points are being constantly tested in the Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) real exam. So our experts highlight the new type of NCM-MCI-6.10 questions and add updates into the practice materials, and look for shifts closely when they take place. As to the rapid changes happened in this NCM-MCI-6.10 Exam, experts will fix them and we assure your NCM-MCI-6.10 exam simulation you are looking at now are the newest version. And we only sell the latest NCM-MCI-6.10 exam questions and answers.

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