

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

The screenshot shows the Nutanix Prism web console interface. At the top, there is a navigation bar with 'VMS' and 'Affinity Policies' selected. Below the navigation bar, there is a 'Create Affinity Policy' button and an 'Actions' dropdown menu. The main content area displays 'Viewing all 2 Affinity Policies' and a table with the following columns: Name, VMs, Hosts, VM Compliance Status, Modified By, and Last Modified. The table contains one row with the following data: Name: bugtestaffinity, VMs: 2, Hosts: 1, VM Compliance Status: 2 Non Compliant, Modified By: admin, Last Modified: Nov 25, 2022, 07:49 PM.

Name	VMs	Hosts	VM Compliance Status	Modified By	Last Modified
bugtestaffinity	2	1	2 Non Compliant	admin	Nov 25, 2022, 07:49 PM

NEW QUESTION # 15

Task 15

An administrator found a CentOS VM, Cent_Down, on the cluster with a corrupted network stack. To correct the issue, the VM will need to be restored from a previous snapshot to become reachable on the network again.

VM credentials:

Username: root

Password: nutanix/4u

Restore the VM and ensure it is reachable on the network by pinging 172.31.0.1 from the VM.

Power off the VM before proceeding.

Answer:

Explanation:

See the Explanation for step by step solution

Explanation:

To restore the VM and ensure it is reachable on the network, you can follow these steps:

Log in to the Web Console of the cluster where the VM is running.

Click on Virtual Machines on the left menu and find Cent_Down from the list. Click on the power icon to power off the VM.

Click on the snapshot icon next to the power icon to open the Snapshot Management window.

Select a snapshot from the list that was taken before the network stack was corrupted. You can use the date and time information to choose a suitable snapshot.

Click on Restore VM and confirm the action in the dialog box. Wait for the restore process to complete.

Click on the power icon again to power on the VM.

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

Run the command ping 172.31.0.1 to verify that the VM is reachable on the network. You should see a reply from the destination IP address.

Go to VMS from the prism central gui
Select the VM and go to More -> Guest Shutdown
Go to Snapshots tab and revert to latest snapshot available
power on vm and verify if ping is working

NEW QUESTION # 16

Topic 1, Performance Based Questions

Environment

You have been provisioned a dedicated environment for your assessment which includes the following:

Workstation

* windows Server 2019

* All software/tools/etc to perform the required tasks

* Nutanix Documentation and whitepapers can be found in desktop\files\Documentation

* Note that the workstation is the system you are currently logged into Nutanix Cluster

* There are three clusters provided. The connection information for the relevant cluster will be displayed to the high of the question

Please make sure you are working on the correct cluster for each item Please ignore any licensing violations

* Cluster A is a 3-node cluster with Prism Central 2022.6 where most questions will be performed

* Cluster B is a one-node cluster and has one syslog item and one security item to perform

* Cluster D is a one-node cluster with Prism Central 5.17 and has a security policy item to perform Important Notes

* If the text is too small and hard to read, or you cannot see an of the GUI. you can increase/decrease the zoom of the browser with CTRL + , and CTRL + (the plus and minus keys) You will be given 3 hours to complete the scenarios for Nutanix NCMCI Once you click the start button below, you will be provided with:

- A Windows desktop A browser page with the scenarios and credentials (Desktop\instructions) Notes for this exam delivery:

The browser can be scaled to Improve visibility and fit all the content on the screen.

- Copy and paste hot-keys will not work Use your mouse for copy and paste.

- The Notes and Feedback tabs for each scenario are to leave notes for yourself or feedback for

- Make sure you are performing tasks on the correct components.

- Changing security or network settings on the wrong component may result in a falling grade.

- Do not change credentials on an component unless you are instructed to.

- All necessary documentation is contained in the Desktop\Files\Documentation directory Task 1 An administrator has been asked to configure a storage for a distributed application which uses large data sets across multiple worker VMs.

The worker VMs must run on every node. Data resilience is provided at the application level and low cost per GB is a Key Requirement.

Configure the storage on the cluster to meet these requirements. Any new object created should include the phrase Distributed_App in the name.

Answer:

Explanation:

See the Explanation for step by step solution

Explanation:

To configure the storage on the cluster for the distributed application, you can follow these steps:

Log in to Prism Element of cluster A using the credentials provided.

Go to Storage > Storage Pools and click on Create Storage Pool.

Enter a name for the new storage pool, such as Distributed_App_Storage_Pool, and select the disks to include in the pool. You can choose any combination of SSDs and HDDs, but for low cost per GB, you may prefer to use more HDDs than SSDs.

Click Save to create the storage pool.

Go to Storage > Containers and click on Create Container.

Enter a name for the new container, such as Distributed_App_Container, and select the storage pool that you just created, Distributed_App_Storage_Pool, as the source.

Under Advanced Settings, enable Erasure Coding and Compression to reduce the storage footprint of the data. You can also disable Replication Factor since data resilience is provided at the application level. These settings will help you achieve low cost per GB for the container.

Click Save to create the container.

Go to Storage > Datastores and click on Create Datastore.

Enter a name for the new datastore, such as Distributed_App_Datastore, and select NFS as the datastore type. Select the container that you just created, Distributed_App_Container, as the source.

Click Save to create the datastore.

The datastore will be automatically mounted on all nodes in the cluster. You can verify this by going to Storage > Datastores and clicking on Distributed_App_Datastore. You should see all nodes listed under Hosts.

You can now create or migrate your worker VMs to this datastore and run them on any node in the cluster. The datastore will provide low cost per GB and high performance for your distributed application.

NEW QUESTION # 17

Task 16

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.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 # 18

Refer to the exhibit.

PSI U1K1zrgatnvek0vwa1daa5atws iak0imrt

Not Secure http://10.148.15.197:5000

Open previous tabs? You can restore your previous session from the Firefox application menu under History. [Show me how](#)

NUTANIX Nutanix NCMMCI610

Assessment Info

Tasks

Assessment Review

Assessment Info

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

TrueAbility **NUTANIX** 0d 3h 59m 30s

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)

Not Secure http://10.148.15.197:5000/assessment/1.1/

NUTANIX

Assessment Info

Tasks

Task 1

Task 2

Task 3

Task 4

Task 5

Task 6

Task 7

Task 8

Task 1

Instructions Notes Feedback Flag for review?

Perform the following task(s).

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@ACHE.org`. Reports should not be retained. If any new objects need to be created, use `monitorvm2` in the name.

Environment Info

Prism Central Web Console

- admin / yKZUJCHER7V*
- nutanix / UJ2x81DEXG

Cluster 1

CVM external IP : 34.53.118.63
CVM DR IP: 172.30.0.6

- admin / 9Fw0813QI4XJ
- nutanix / GNP*FE2504XGZ
- root / KR*6HY8Dz5E8

TrueAbility

- admin / yKZUJCMER7V*
- nutanix / UJ2x0!DEXGY

Cluster 1

CVM external IP : 34.53.118.63
CVM DR IP: 172.30.0.6

- admin / 9Fw08!3Qn4XJ
- nutanix / GNP*FE2504XWZ

Cluster 2

CVM external IP : 34.82.155.5
CVM DR IP: 172.30.0.4

- admin / 5*K30FA76X
- nutanix / N13F>M1E7ZT9

Task1

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 monitorvm2 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

Explanation:

This is a classic Nutanix performance troubleshooting scenario. The issue is almost certainly that the VM was created using the wrong Disk Bus Type (IDE or SATA instead of SCSI).

Here is the step-by-step solution to complete Task 1.

Part 1: Analysis and Reporting

Create the Session

Log in to Prism Central (or Prism Element, depending on the exam environment, but Analysis is usually a PC feature).

Navigate to Operations -> Analysis.

Click New Session.

Name: Monitor SQL02

Entity: Search for and select the VM named SQL02.

Metrics: Since the issue is storage performance, search for and add these specific metrics:

Hypervisor IOPS (or Controller IOPS)

Hypervisor IO Latency (or Controller IO Latency)

Hypervisor IO Bandwidth

Click Save.

Save Session Data (Task 1.txt)

Open the "Monitor SQL02" session you just created.

(Per instructions): Right-click anywhere on the chart/data area -> Click Select All.

Copy the selected text (Ctrl+C).

Open Notepad on the provided desktop.

Paste the data.

Save the file as Task 1.txt on the Desktop.

Create and Schedule the Report

While still in the Analysis session, click the Create Report (or "Add to Report") button.

Report Name: MonitorSQL02

Report Settings:

Format: PDF

Frequency: Daily

Email Recipient: perf_group@ACME.org

Retention: 0 (or "Do not retain", as requested).

Note: If the system forces you to create a new Report object and MonitorSQL02 is rejected, use monitorvm2 as the name per the instructions.

Save/Schedule the report.

Part 2: Diagnose and Fix the Issue

The Issue:

VM SQL02 was likely created with its data disks set to IDE or SATA.

Why this causes poor performance: IDE/SATA are emulated hardware with high CPU overhead and low queue depths (single-threaded).

The Standard: SQL01 (the healthy VM) is using SCSI, which is multithreaded and optimized for virtualization.

The Fix (Steps):

Navigate to the VM list in Prism.

Select SQL02 and click Update (or Edit).

Scroll down to the Disks section.

Identify the data disk(s). You will see the Bus Type listed as IDE or SATA.

Do not delete the VM. Instead, perform a disk conversion (destructive change to the disk is allowed, but we want to keep the data).

Method to Convert (Clone to SCSI):

Hover over the IDE/SATA disk to see the path/filename of the vDisk (or write it down).

Click Add New Disk.

Operation: select Clone from ADSF file.

Path: Browse to the storage container and select the file associated with the current IDE disk.

Bus Type: Select SCSI (This is the critical fix).

Index: Ensure it doesn't conflict with existing disks (usually index 1 or higher for data).

Click Add.

Once the new SCSI disk is added, find the original IDE/SATA disk and click the X to remove it.

Click Save.

Note: You do not need to power on the VM to verify. The change from IDE to SCSI allows the VM to use the Nutanix VirtIO drivers for maximum storage performance.

NEW QUESTION # 19

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