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Nutanix Certified Master - Multicloud Infrastructure v6.10 Sample Questions (Q14-Q19):

NEW QUESTION # 14

Refer to the exhibit.

PSI 01k12rgdtnv6k6vwd1dda5afws lak5lmff

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 NCMCI610

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 0d 3h 59m 30s 8:09 AM 7/6/2025

Environment

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Initial Steps

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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 info 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 / yKZU3CHER7V*
- nutanix / U32x8!DEXGY

Cluster 1

CVM external IP: 34.53.118.63
CVM DR IP: 172.30.0.6

- admin / 9Fw0B13QW4X3
- nutanix / GNP*fe2504XWZ
- root / KR*6HY0DzSE8



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 # 15

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 toggled 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 duster 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 NCMMCI 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 failing 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 # 16

Task 6

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
```

Answer:

Explanation:

See the Explanation for step by step solution

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 # 17

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 # 18

Task 9

Part1

An administrator logs into Prism Element and sees an alert stating the following:

Cluster services down on Controller VM (35.197.75.196)

Correct this issue in the least disruptive manner.

Part2

In a separate request, the security team has noticed a newly created cluster is reporting.

CVM [35.197.75.196] is using the default password.

They have provided some new security requirements for cluster level security.

Security requirements:

Update the default password for the root user on the node to match the admin user password: Note: 192.168.x.x is not available.

To access a node use the Host IP (172.30.0.x) from a CVM or the supplied external IP address.

Update the default password for the nutanix user on the CVM to match the admin user password.

Resolve the alert that is being reported.

Output the cluster-wide configuration of the SCMA policy to Desktop\Files\output.txt before changes are made.

Enable the Advance intrusion Detection Environment (AIDE) to run on a weekly basis for the cluster.

Enable high-strength password policies for the cluster.

Ensure CVMs require SSH keys for login instead of passwords. (SSH keys are located in the Desktop\Files\SSH folder).
Ensure the clusters meets these requirements. Do not reboot any cluster components.

Answer:

Explanation:

See the Explanation for step by step solution

Explanation:

To correct the issue of cluster services down on Controller VM (35.197.75.196) in the least disruptive manner, you need to do the following steps:

Log in to Prism Element using the admin user credentials.

Go to the Alerts page and click on the alert to see more details.

You will see which cluster services are down on the Controller VM. For example, it could be cassandra, curator, stargate, etc.

To start the cluster services, you need to SSH to the Controller VM using the nutanix user credentials. You can use any SSH client such as PuTTY or Windows PowerShell to connect to the Controller VM. You will need the IP address and the password of the nutanix user, which you can find in Desktop\Files\SSH\nutanix.txt.

Once you are logged in to the Controller VM, run the command:

```
cluster status | grep -v UP
```

This will show you which services are down on the Controller VM.

To start the cluster services, run the command:

```
cluster start
```

This will start all the cluster services on the Controller VM.

To verify that the cluster services are running, run the command:

```
cluster status | grep -v UP
```

This should show no output, indicating that all services are up.

To clear the alert, go back to Prism Element and click on Resolve in the Alerts page.

To meet the security requirements for cluster level security, you need to do the following steps:

To update the default password for the root user on the node to match the admin user password, you need to SSH to the node using the root user credentials. You can use any SSH client such as PuTTY or Windows PowerShell to connect to the node. You will need the IP address and the password of the root user, which you can find in Desktop\Files\SSH\root.txt.

Once you are logged in to the node, run the command:

```
passwd
```

This will prompt you to enter a new password for the root user. Enter the same password as the admin user, which you can find in Desktop\Files\SSH\admin.txt.

To update the default password for the nutanix user on the CVM to match the admin user password, you need to SSH to the CVM using the nutanix user credentials. You can use any SSH client such as PuTTY or Windows PowerShell to connect to the CVM.

You will need the IP address and the password of the nutanix user, which you can find in Desktop\Files\SSH\nutanix.txt.

Once you are logged in to the CVM, run the command:

```
passwd
```

This will prompt you to enter a new password for the nutanix user. Enter the same password as the admin user, which you can find in Desktop\Files\SSH\admin.txt.

To resolve the alert that is being reported, go back to Prism Element and click on Resolve in the Alerts page.

To output the cluster-wide configuration of SCMA policy to Desktop\Files\output.txt before changes are made, you need to log in to Prism Element using the admin user credentials.

Go to Security > SCMA Policy and click on View Policy Details. This will show you the current settings of SCMA policy for each entity type.

Copy and paste these settings into a new text file named Desktop\Files\output.txt.

To enable AIDE (Advanced Intrusion Detection Environment) to run on a weekly basis for the cluster, you need to log in to Prism Element using the admin user credentials.

Go to Security > AIDE Configuration and click on Enable AIDE. This will enable AIDE to monitor file system changes on all CVMs and nodes in the cluster.

Select Weekly as the frequency of AIDE scans and click Save.

To enable high-strength password policies for the cluster, you need to log in to Prism Element using the admin user credentials.

Go to Security > Password Policy and click on Edit Policy. This will allow you to modify the password policy settings for each entity type.

For each entity type (Admin User, Console User, CVM User, and Host User), select High Strength as the password policy level and click Save.

To ensure CVMs require SSH keys for login instead of passwords, you need to log in to Prism Element using the admin user credentials.

Go to Security > Cluster Lockdown and click on Configure Lockdown. This will allow you to manage SSH access settings for the cluster.

Uncheck Enable Remote Login with Password. This will disable password-based SSH access to the cluster.

Click New Public Key and enter a name for the key and paste the public key value from Desktop\Files\SSH\id_rsa.pub. This will add a public key for key-based SSH access to the cluster.

Click Save and Apply Lockdown. This will apply the changes and ensure CVMs require SSH keys for login instead of passwords. Part1

Enter CVM ssh and execute:

```
cluster status | grep -v UP
```

```
cluster start
```

If there are issues starting some services, check the following:

Check if the node is in maintenance mode by running the `ncli host ls` command on the CVM. Verify if the parameter Under Maintenance Mode is set to False for the node where the services are down. If the parameter Under Maintenance Mode is set to True, remove the node from maintenance mode by running the following command:

```
* nutanix@cvm$ ncli host edit id=<host id> enable-maintenance-mode=false
```

 You can determine the host ID by using `ncli host ls`.

See the troubleshooting topics related to failed cluster services in the Advanced Administration Guide available from the Nutanix Portal's Software Documentation page. (Use the filters to search for the guide for your AOS version). These topics have information about common and AOS-specific logs, such as Stargate, Cassandra, and other modules.

* Check for any latest FATALs for the service that is down. The following command prints all the FATALs for a CVM. Run this command on all CVMs.

```
nutanix@cvm$ for i in `svnips`; do echo "CVM: $i"; ssh $i "ls -ltr /home/nutanix/data/logs/*.FATAL"; done
```

 NCC Health Check:

```
cluster_services_down_check (nutanix.com)
```

 Part2 Update the default password for the root user on the node to match the admin

```
user password echo -e "CHANGING ALL AHV HOST ROOT PASSWORDS.\nPlease input new password: "; read -rs
```

```
password1; echo "Confirm new password: "; read -rs password2; if [ "$password1" == "$password2" ]; then for host in $(hostips);
```

```
do echo Host $host; echo $password1 | ssh root@$host "passwd --stdin root"; done; else echo "The passwords do not match"; fi
```

```
Update the default password for the nutanix user on the CVM sudo passwd nutanix
```

 Output the cluster-wide configuration of the

```
SCMA policy ncli cluster get-hypervisor-security-config
```

 Output Example:

```
nutanix@NTNX-372a19a3-A-CVM:10.35.150.184:~$ ncli cluster get-hypervisor-security-config
```

 Enable Aide : false Enable Core

```
: false Enable High Strength P... : false Enable Banner : false Schedule : DAILY Enable iTLB Multihit M... : false
```

 Enable the

Advance intrusion Detection Environment (AIDE) to run on a weekly basis for the cluster.

```
ncli cluster edit-hypervisor-security-params enable-aide=true
```

```
ncli cluster edit-hypervisor-security-params schedule=weekly
```

Enable high-strength password policies for the cluster.

```
ncli cluster edit-hypervisor-security-params enable-high-strength-password=true
```

 Ensure CVMs require SSH keys for login instead of passwords

<https://portal.nutanix.com/page/documents/kbs/details?targetId=kA0600000008gb3CAA>



Name

name_public_key

Key

Public Key here

< Back

NUTANIX

Save



PuTTY Configuration

?

×

Category:

- Keyboard
- Bell
- Features
- Window
 - Appearance
 - Behaviour
 - Translation
- Selection
- Colours
- Connection
- Data
- Proxy
- SSH
 - Kex
 - Host keys
 - Cipher
 - Auth
 - X11
 - Tunnels
 - Bugs
 - More bugs

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address)

10.30.8.19

CVM IP

Port

22

Connection type:

☒ SSH

☐ Serial

☐ Other:

Telnet

Load, save or delete a stored session

Saved Sessions

Default Settings

Load

Save

Delete

Close window on exit:

☐ Always

☐ Never

☒ Only on clean exit

