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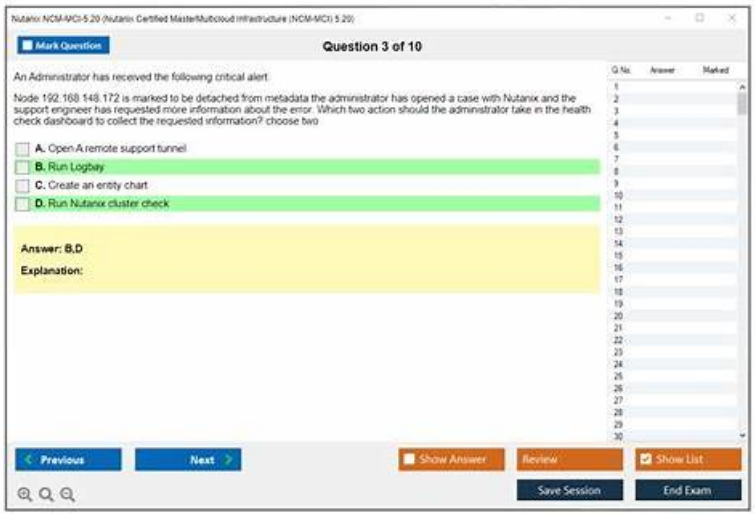

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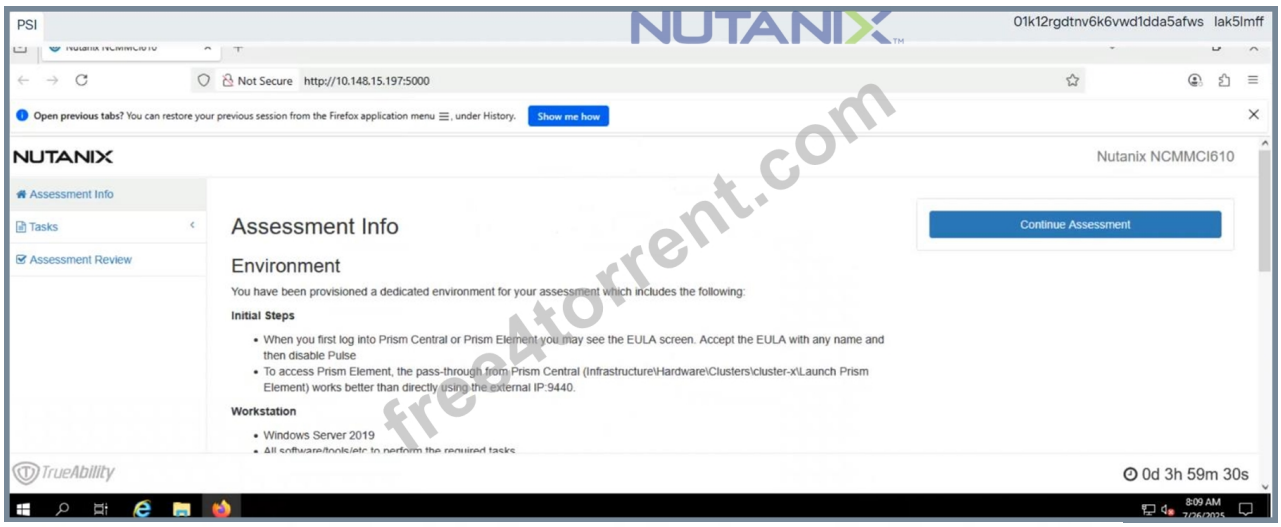
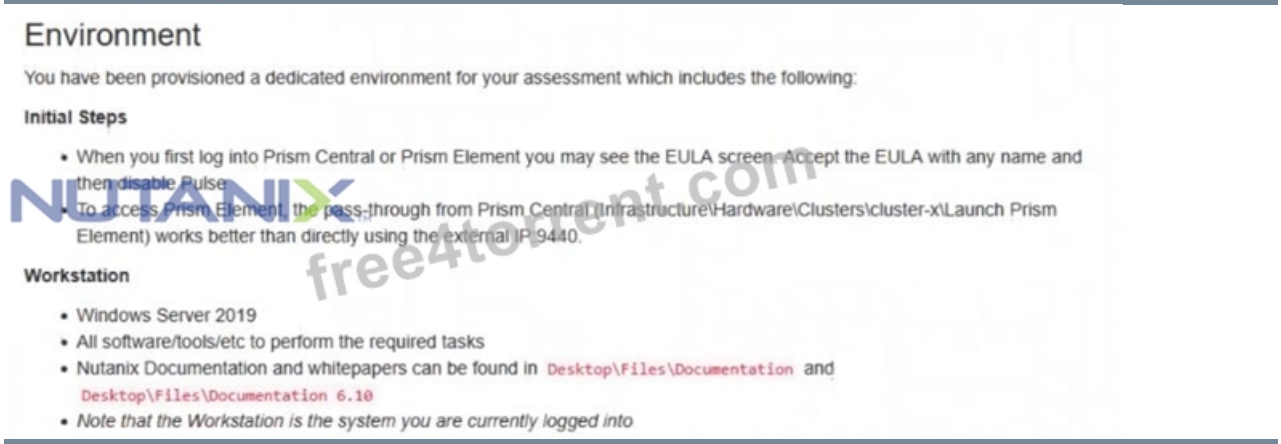
Nutanix Certified Master - Multicloud Infrastructure v6.10 Sample Questions (Q10-Q15):

NEW QUESTION # 10
Refer to the exhibit.





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 # 11
Task4
An administrator will be deploying Flow Networking and needs to validate that the environment, specifically switch vs1, is appropriately configured. Only VPC traffic should be carried by the switch.
Four versions each of two possible commands have been placed in Desktop\Files\Network\flow.txt. Remove the hash mark (#) from the front of correct First command and correct Second command and save the file.

Only one hash mark should be removed from each section. Do not delete or copy lines, do not add additional lines. Any changes other than removing two hash marks (#) will result in no credit.
Also, SSH directly to any AHV node (not a CVM) in the cluster and from the command line display an overview of the Open vSwitch configuration. Copy and paste this to a new text file named Desktop\Files\Network\AHVswitch.txt.
Note: You will not be able to use the 192.168.5.0 network in this environment.
First command
#net.update_vpc_traffic_config virtual_switch=vs0
net.update_vpc_traffic_config virtual_switch=vs1
#net.update_vpc_east_west_traffic_config virtual_switch=vs0
#net.update_vpc_east_west_traffic_config virtual_switch=vs1
Second command
#net.update_vpc_east_west_traffic_config permit_all_traffic=true
net.update_vpc_east_west_traffic_config permit_vpc_traffic=true
#net.update_vpc_east_west_traffic_config permit_all_traffic=false
#net.update_vpc_east_west_traffic_config permit_vpc_traffic=false

Answer:

Explanation:
See the Explanation for step by step solution
Explanation:
First, you need to open the Prism Central CLI from the Windows Server 2019 workstation. You can do this by clicking on the Start menu and typing "Prism Central CLI". Then, you need to log in with the credentials provided to you.
Second, you need to run the two commands that I have already given you in Desktop\Files\Network\flow.txt. These commands are: net.update_vpc_traffic_config virtual_switch=vs1 net.update_vpc_east_west_traffic_config permit_vpc_traffic=true These commands will update the virtual switch that carries the VPC traffic to vs1, and update the VPC east-west traffic configuration to allow only VPC traffic. You can verify that these commands have been executed successfully by running the command: net.get_vpc_traffic_config
This command will show you the current settings of the virtual switch and the VPC east-west traffic configuration.
Third, you need to SSH directly to any AHV node (not a CVM) in the cluster and run the command:
ovs-vsctl show
This command will display an overview of the Open vSwitch configuration on the AHV node. You can copy and paste the output of this command to a new text file named Desktop\Files\Network\AHVswitch.txt.
You can use any SSH client such as PuTTY or Windows PowerShell to connect to the AHV node. You will need the IP address and the credentials of the AHV node, which you can find in Prism Element or Prism Central.
remove # from greens
On AHV execute:
sudo ovs-vsctl show
CVM access AHV access command
nutanix@NTNX-A-CVM:192.168.10.5:~$ ssh root@192.168.10.2 "ovs-vsctl show" Open AHVswitch.txt and copy paste output

NEW QUESTION # 12
Task 3
An administrator needs to assess performance gains provided by AHV Turbo at the guest level. To perform the test the administrator created a Windows 10 VM named Turbo with the following configuration.
1 vCPU
8 GB RAM
SATA Controller
40 GB vDisk
The stress test application is multi-threaded capable, but the performance is not as expected with AHV Turbo enabled. Configure the VM to better leverage AHV Turbo.
Note: Do not power on the VM. Configure or prepare the VM for configuration as best you can without powering it on.

Answer:

Explanation:
See the Explanation for step by step solution
Explanation:
To configure the VM to better leverage AHV Turbo, you can follow these steps:
Log in to Prism Element of cluster A using the credentials provided.

Go to VM > Table and select the VM named Turbo.
Click on Update and go to Hardware tab.
Increase the number of vCPUs to match the number of multiqueues that you want to enable. For example, if you want to enable 8 multiqueues, set the vCPUs to 8. This will improve the performance of multi-threaded workloads by allowing them to use multiple processors.
Change the SCSI Controller type from SATA to VirtIO. This will enable the use of VirtIO drivers, which are required for AHV Turbo.
Click Save to apply the changes.
Power off the VM if it is running and mount the Nutanix VirtIO ISO image as a CD-ROM device. You can download the ISO image from Nutanix Portal.
Power on the VM and install the latest Nutanix VirtIO drivers for Windows 10. You can follow the instructions from Nutanix Support Portal.
After installing the drivers, power off the VM and unmount the Nutanix VirtIO ISO image.
Power on the VM and log in to Windows 10.
Open a command prompt as administrator and run the following command to enable multiqueue for the VirtIO NIC:
ethtool -L eth0 combined 8
Replace eth0 with the name of your network interface and 8 with the number of multiqueues that you want to enable. You can use ipconfig /all to find out your network interface name.
Restart the VM for the changes to take effect.
You have now configured the VM to better leverage AHV Turbo. You can run your stress test application again and observe the performance gains.
https://portal.nutanix.com/page/documents/kbs/details?targetId=kA00e000000LKPdCAO change vCPU to 2/4 ?
Change SATA Controller to SCSI:
acli vm.get Turbo
Output Example:
Turbo {
config {
agent_vm: False
allow_live_migrate: True
boot {
boot_device_order: "kCdrom"
boot_device_order: "kDisk"
boot_device_order: "kNetwork"
uefi_boot: False
}
cpu_passthrough: False
disable_branding: False
disk_list {
addr {
bus: "ide"
index: 0
}
cdrom: True
device_uuid: "994b7840-dc7b-463e-a9bb-1950d7138671"
empty: True
}
disk_list {
addr {
bus: "sata"
index: 0
}
container_id: 4
container_uuid: "49b3e1a4-4201-4a3a-8abc-447c663a2a3e"
device_uuid: "622550e4-fb91-49dd-8fc7-9e90e89a7b0e"
naa_id: "naa.6506b8dcda1de6e9ce911de7d3a22111"
storage_vdisk_uuid: "7e98a626-4cb3-47df-a1e2-8627cf90eae6"
vmdisk_size: 10737418240
vmdisk_uuid: "17e0413b-9326-4572-942f-68101f2bc716"
}
flash_mode: False
hwclock_timezone: "UTC"

machine_type: "pc"
memory_mb: 2048
name: "Turbo"
nic_list {
connected: True
mac_addr: "50:6b:8d:b2:a5:e4"
network_name: "network"
network_type: "kNativeNetwork"
network_uuid: "86a0d7ca-acfd-48db-b15c-5d654ff39096"
type: "kNormalNic"
uuid: "b9e3e127-966c-43f3-b33c-13608154c8bf"
vlan_mode: "kAccess"
}
num_cores_per_vcpu: 2
num_threads_per_core: 1
num_vcpus: 2
num_vnuma_nodes: 0
vga_console: True
vm_type: "kGuestVM"
}
is_rfl_vm: False
logical_timestamp: 2
state: "Off"
uuid: "9670901f-8c5b-4586-a699-41f0c9ab26c3"
}
acli vm.disk_create Turbo clone_from_vmdisk=17e0413b-9326-4572-942f-68101f2bc716 bus=scsi remove the old disk acli vm.disk_delete 17e0413b-9326-4572-942f-68101f2bc716 disk_addr=sata.0

NEW QUESTION # 13
TASK2
The security team has provided some new security requirements for cluster level security on Cluster 2.
Security requirements:
Update the password for the root user on the Cluster 2 node to match the admin user password.
Note: The 192.168.x.x network is not available. To access a node use the host IP (172.30.0.x) from the CVM.
Output the cluster-wide configuration of the SCMA policy to desktop\output.txt before changes are made.
Enable the Advanced Intrusion Detection Environment (AIDE) to run on a weekly basis for the hypervisor and cvms for Cluster 2.
Enable high-strength password policies for the hypervisor and cluster.
Ensure CVMs require SSH keys for login instead of passwords. (SSH keys are located in the desktop\Files\SSH folder.) Ensure the cluster meets these requirements. Do not reboot any cluster components.
Note: Please ensure you are modifying the correct components.

Answer:

Explanation:
See the Explanation
Explanation:
This task focuses on Security Technical Implementation Guides (STIGs) and general hardening of the Nutanix cluster. Most of these tasks are best performed via the Nutanix Command Line Interface (ncli) on the CVM, though the SSH key requirement is often easier to handle via the Prism GUI.
Here is the step-by-step procedure to complete Task 2.
Prerequisites: Connection
Open PuTTY (or the available terminal) from the provided Windows Desktop.
SSH into the Cluster 2 CVM. (If the Virtual IP is unknown, check Prism Element for the CVM IP).
Log in using the provided credentials (usually nutanix / nutanix/4u or the admin password provided in your instructions).
Step 1: Output SCMA Policy (Do this FIRST)
Requirement: Output the cluster-wide configuration of the SCMA policy to desktop\output.txt before changes are made.
In the SSH session on the CVM, run:
Bash
ncli cluster get-software-config-management-policy
Copy the output from the terminal window.

Open Notepad on the Windows Desktop.
Paste the output.
Save the file as output.txt on the Desktop.
Step 2: Enable AIDE (Weekly)
Requirement: Enable the Advanced Intrusion Detection Environment (AIDE) to run on a weekly basis for the hypervisor and CVMs.
In the same CVM SSH session, run the following command to modify the SCMA policy:
Bash
ncli cluster edit-software-config-management-policy enable-aide=true schedule-interval=WEEKLY (Note: This single command applies the policy to both Hypervisor and CVMs by default in most versions).
Step 3: Enable High-Strength Password Policies
Requirement: Enable high-strength password policies for the hypervisor and cluster.
Run the following command:
Bash
ncli cluster set-high-strength-password-policy enable=true
Step 4: Update Root Password for Cluster Nodes
Requirement: Update the password for the root user on the Cluster 2 node to match the admin user password.
Method A: The Automated Way (Recommended)
Use ncli to set the password for all hypervisor nodes at once without needing to SSH into them individually.
Run:
Bash
ncli cluster set-hypervisor-password
When prompted, enter the current admin password (this becomes the new root password).
Method B: The Manual Way (If NCLI fails or manual access is required)
Note: Use this if the exam specifically wants you to touch the node via the 172.x network.
From the CVM, SSH to the host using the internal IP:
Bash
ssh root@172.30.0.x (Replace x with the host ID, e.g., 4 or 5)
Run the password change command:
Bash
passwd
Enter the admin password twice.
Repeat for other nodes in Cluster 2.
Step 5: Cluster Lockdown (SSH Keys)
Requirement: Ensure CVMs require SSH keys for login instead of passwords.
It is safest to do this via the Prism Element GUI to prevent locking yourself out.
Open Prism Element for Cluster 2 in the browser.
Click the Gear Icon (Settings) -> Cluster Lockdown.
Uncheck the box "Enable Remote Login with Password".
Click New Public Key (or Add Key).
Open the folder Desktop\Files\SSH on the Windows desktop.
Open the public key file (usually ends in .pub) in Notepad and copy the contents.
Paste the key into the Prism "Key" box.
Click Save.
Note: Do not reboot the cluster. The SCMA and Password policies take effect immediately without a reboot.

NEW QUESTION # 14
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 fil 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 # 15
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