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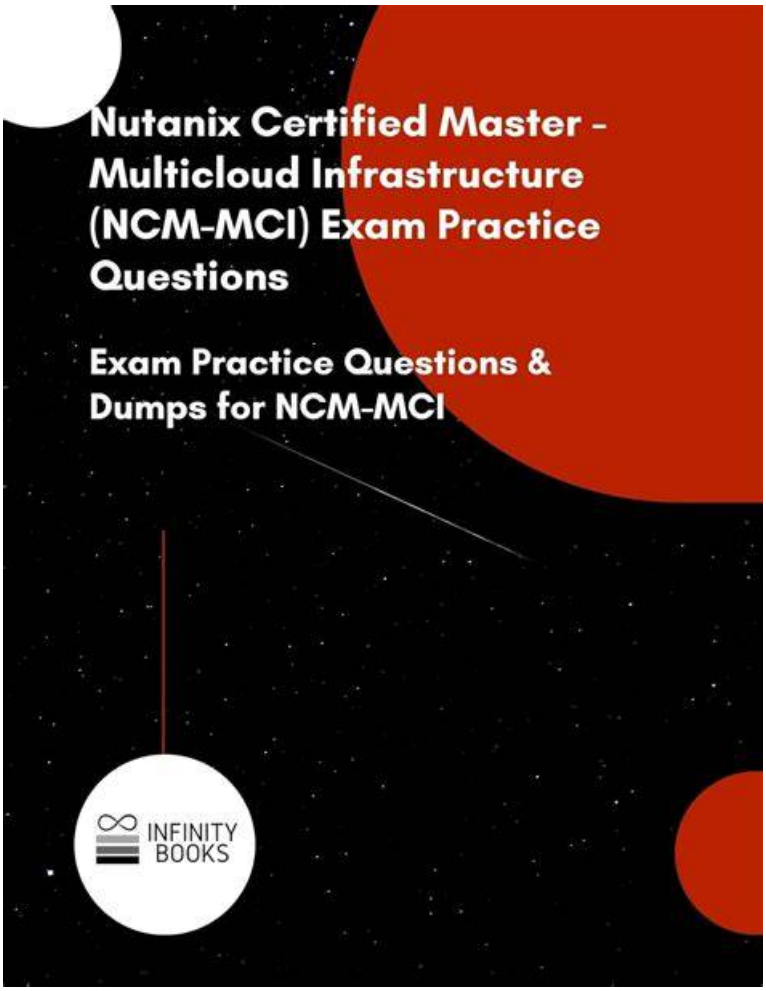

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Nutanix NCM-MCI Exam Syllabus Topics:

Section	Objectives
Topic 1: Analyze and Optimize Virtual Machine Performance	- VM optimization • 1. Workload optimization • 2. Performance monitoring • 3. Resource allocation tuning

Topic 2: Analyze and Optimize Storage Performance	- Storage performance analysis • 1. Evaluate storage health and capacity • 2. Identify storage bottlenecks • 3. Optimize storage efficiency
Topic 3: Advanced Configuration and Troubleshooting	- Platform administration • 1. Advanced cluster configuration • 2. System troubleshooting • 3. Performance remediation • 4. Log analysis and diagnostics
Topic 4: Analyze and Optimize Network Performance	- Network optimization • 1. Troubleshoot connectivity issues • 2. Analyze network traffic and latency • 3. Optimize network configuration
Topic 5: Ensure Business Continuity	- Availability and recovery • 1. Business continuity validation • 2. Data protection and replication • 3. Disaster recovery planning

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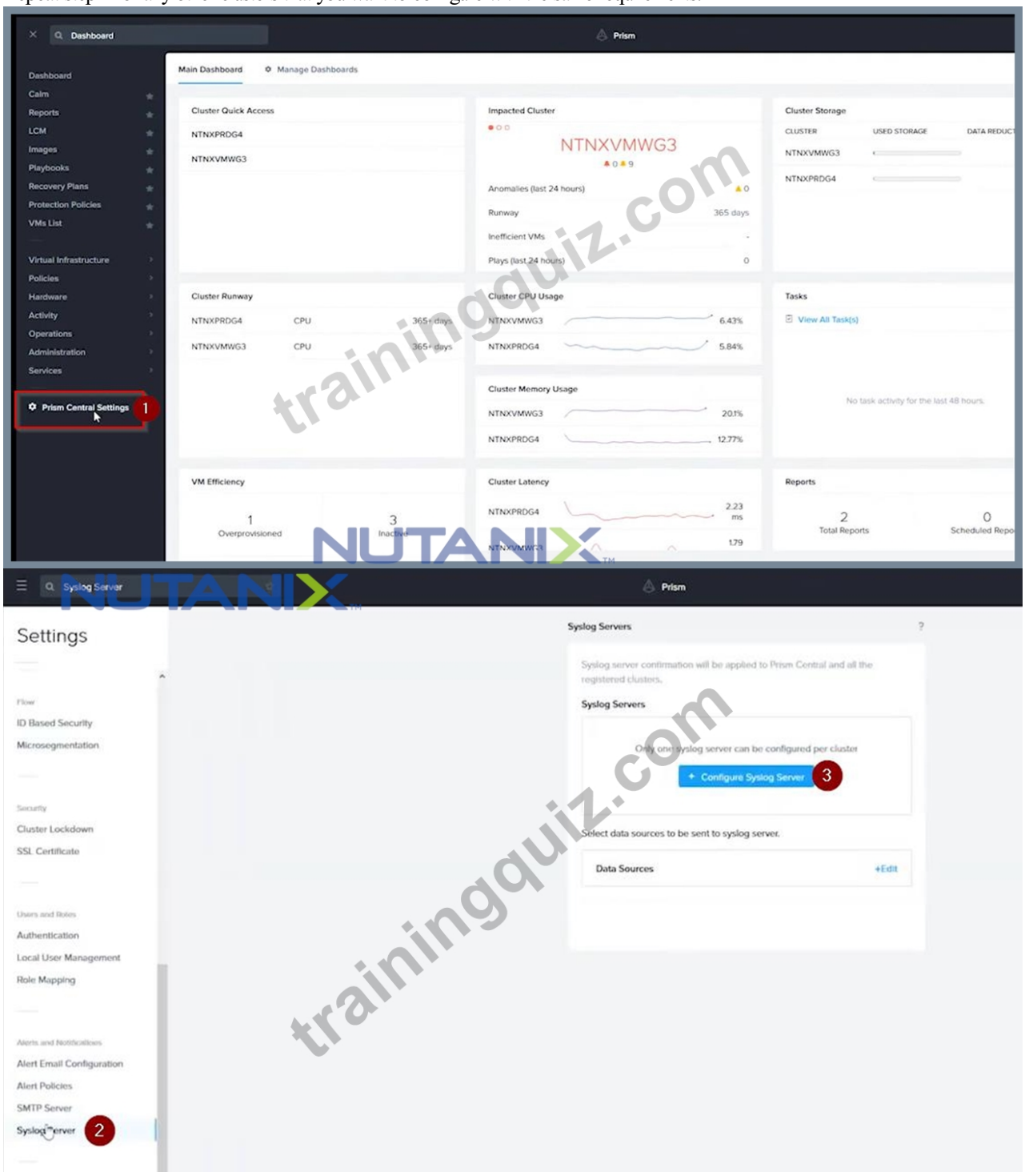
Nutanix Certified Master - Multicloud Infrastructure v6.10 Sample Questions (Q15-Q20):

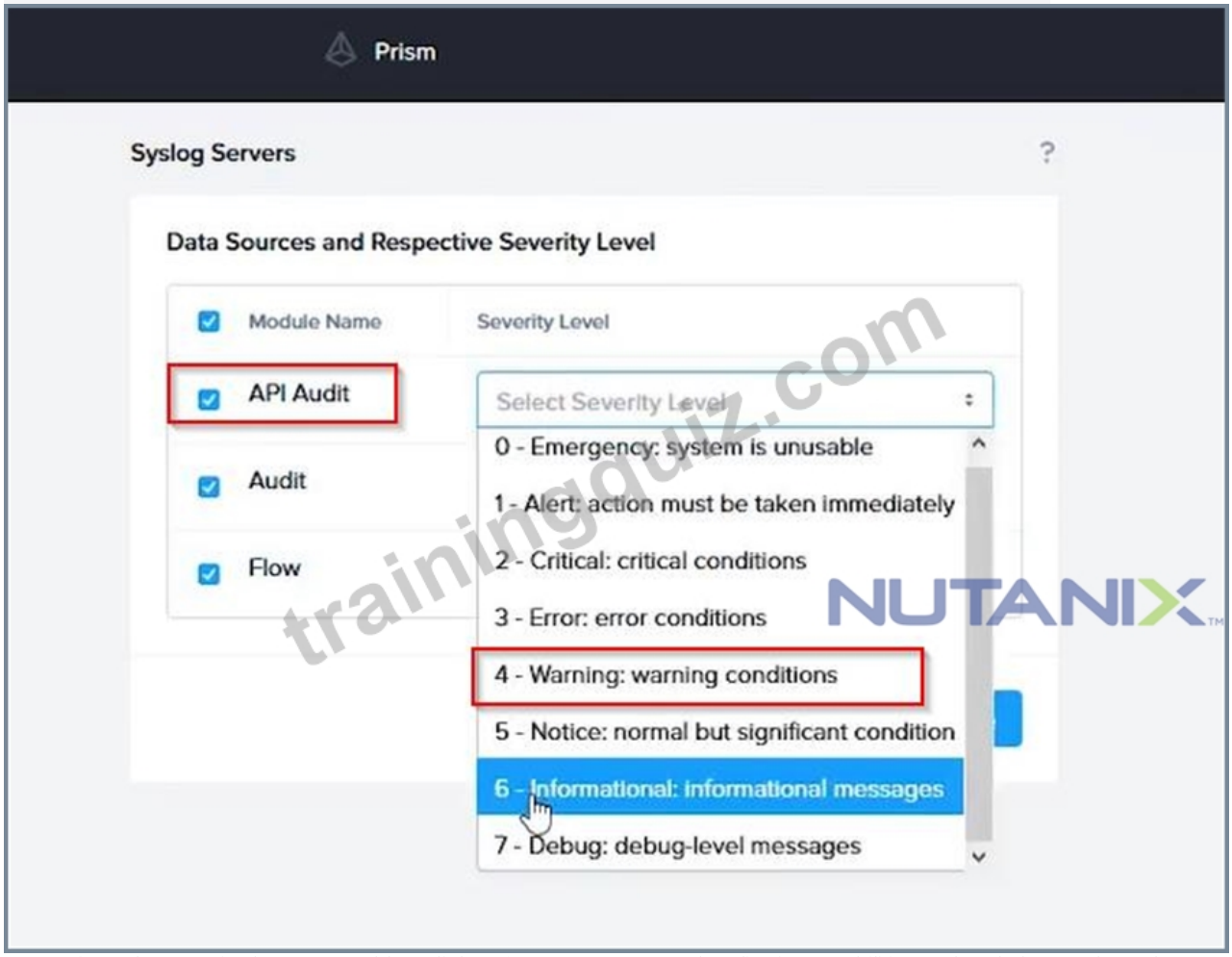
NEW QUESTION # 15
Task 8
Depending on the order you perform the exam items, the access information and credentials could change. Please refer to the other item performed on Cluster B if you have problems accessing the cluster.
The infosec team has requested that audit logs for API Requests and replication capabilities be enabled for all clusters for the top 4 severity levels and pushed to their syslog system using highest reliability possible. They have requested no other logs to be included.
Syslog configuration:
Syslog Name: Corp_syslog
Syslop IP: 34.69.43.123
Port: 514
Ensure the cluster is configured to meet these requirements.

Answer:

Explanation:
See the Explanation for step by step solution
Explanation:
To configure the cluster to meet the requirements of the infosec team, you need to do the following steps:
Log in to Prism Central and go to Network > Syslog Servers > Configure Syslog Server. Enter Corp_syslog as the Server Name,

34.69.43.123 as the IP Address, and 514 as the Port. Select TCP as the Transport Protocol and enable RELP (Reliable Logging Protocol). This will create a syslog server with the highest reliability possible.
Click Edit against Data Sources and select Cluster B as the cluster. Select API Requests and Replication as the data sources and set the log level to CRITICAL for both of them. This will enable audit logs for API requests and replication capabilities for the top 4 severity levels (EMERGENCY, ALERT, CRITICAL, and ERROR) and push them to the syslog server. Click Save.
Repeat step 2 for any other clusters that you want to configure with the same requirements.





To configure the Nutanix clusters to enable audit logs for API Requests and replication capabilities, and push them to the syslog

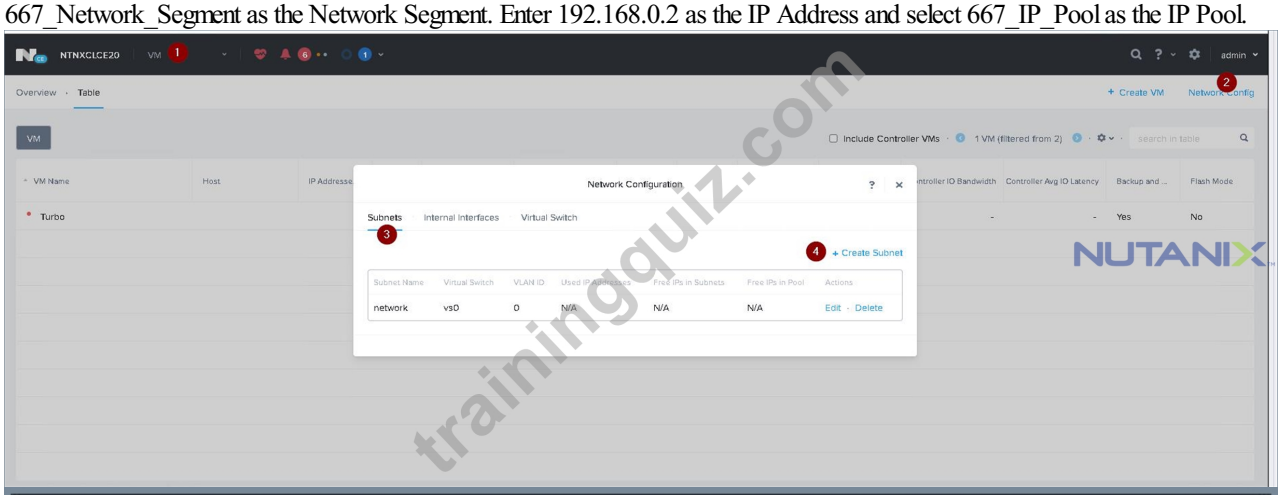
system with the highest reliability possible, you can follow these steps:
Log in to the Nutanix Prism web console using your administrator credentials.
Navigate to the "Settings" section or the configuration settings interface within Prism.
Locate the "Syslog Configuration" or "Logging" option and click on it.
Configure the syslog settings as follows:
Syslog Name: Enter "Corp_syslog" as the name for the syslog configuration.
Syslog IP: Set the IP address to "34.69.43.123", which is the IP address of the syslog system.
Port: Set the port to "514", which is the default port for syslog.
Enable the option for highest reliability or persistent logging, if available. This ensures that logs are sent reliably and not lost in case of network interruptions.
Save the syslog configuration.
Enable Audit Logs for API Requests:
In the Nutanix Prism web console, navigate to the "Cluster" section or the cluster management interface.
Select the desired cluster where you want to enable audit logs.
Locate the "Audit Configuration" or "Security Configuration" option and click on it.
Look for the settings related to audit logs and API requests. Enable the audit logging feature and select the top 4 severity levels to be logged.
Save the audit configuration.
Enable Audit Logs for Replication Capabilities:
In the Nutanix Prism web console, navigate to the "Cluster" section or the cluster management interface.
Select the desired cluster where you want to enable audit logs.
Locate the "Audit Configuration" or "Security Configuration" option and click on it.
Look for the settings related to audit logs and replication capabilities. Enable the audit logging feature and select the top 4 severity levels to be logged.
Save the audit configuration.
After completing these steps, the Nutanix clusters will be configured to enable audit logs for API Requests and replication capabilities. The logs will be sent to the specified syslog system with the highest reliability possible.
ncli
<ncli> rsyslog-config set-status enable=false
<ncli> rsyslog-config add-server name=Corp_Syslog ip-address=34.69.43.123 port=514 network-protocol=tdp relp-enabled=false
<ncli> rsyslog-config add-module server-name= Corp_Syslog module-name=APLOS level=INFO
<ncli> rsyslog-config add-module server-name= Corp_Syslog module-name=CEREBRO level=INFO
<ncli> rsyslog-config set-status enable=true
https://portal.nutanix.com/page/documents/kbs/details?targetId=kA00e0000009CEECA2

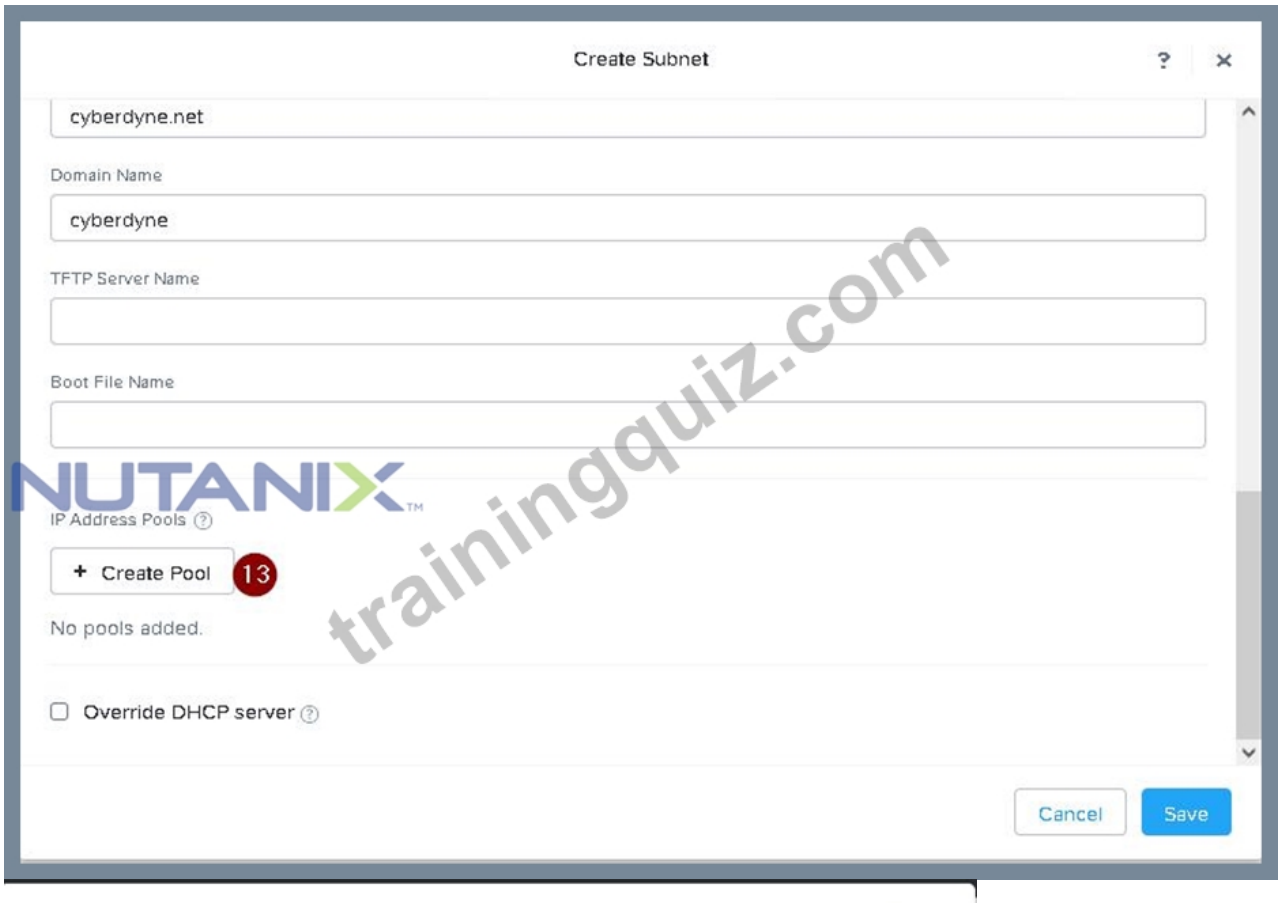
NEW QUESTION # 16
Task 5
An administrator has been informed that a new workload requires a logically segmented network to meet security requirements.
Network configuration:
VLAN: 667
Network: 192.168.0.0
Subnet Mask: 255.255.255.0
DNS server: 34.82.231.220
Default Gateway: 192.168.0.1
Domain: cyberdyne.net
IP Pool: 192.168.9.100-200
DHCP Server IP: 192.168.0.2
Configure the cluster to meet the requirements for the new workload if new objects are required, start the name with 667.

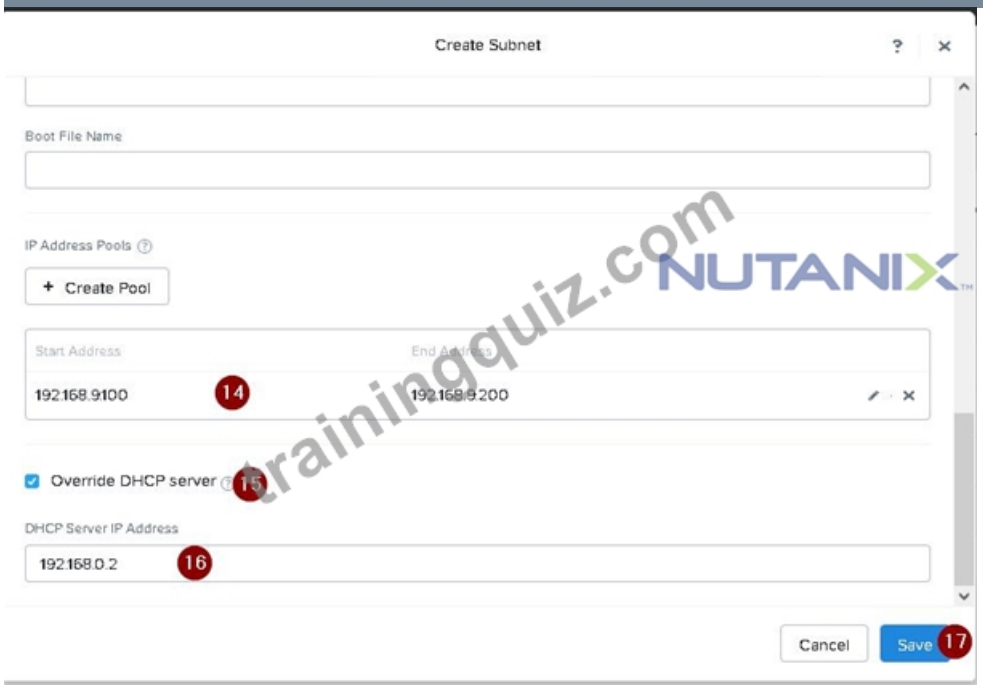
Answer:

Explanation:
See the Explanation for step by step solution
Explanation:
To configure the cluster to meet the requirements for the new workload, you need to do the following steps:
Create a new VLAN with ID 667 on the cluster. You can do this by logging in to Prism Element and going to Network Configuration > VLANs > Create VLAN. Enter 667 as the VLAN ID and a name for the VLAN, such as 667_VLAN.
Create a new network segment with the network details provided. You can do this by logging in to Prism Central and going to Network > Network Segments > Create Network Segment. Enter a name for the network segment, such as

667_Network_Segment, and select 667_VLAN as the VLAN. Enter 192.168.0.0 as the Network Address and 255.255.255.0 as the Subnet Mask. Enter 192.168.0.1 as the Default Gateway and 34.82.231.220 as the DNS Server. Enter cyberdyne.net as the Domain Name.
Create a new IP pool with the IP range provided. You can do this by logging in to Prism Central and going to Network > IP Pools > Create IP Pool. Enter a name for the IP pool, such as 667_IP_Pool, and select 667_Network_Segment as the Network Segment. Enter 192.168.9.100 as the Starting IP Address and 192.168.9.200 as the Ending IP Address.
Configure the DHCP server with the IP address provided. You can do this by logging in to Prism Central and going to Network > DHCP Servers > Create DHCP Server. Enter a name for the DHCP server, such as 667_DHCP_Server, and select 667_Network_Segment as the Network Segment. Enter 192.168.0.2 as the IP Address and select 667_IP_Pool as the IP Pool.







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 VMand 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 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 # 19
Task 11
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 os 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

NEW QUESTION # 20
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