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## Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q12-Q17):

NEW QUESTION # 12

Task 5

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 of 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](https://portal.nutanix.com/page/documents/details?targetId=AHV-Admin-Guide-v6_5:ahv-affinity-policies-c.html)

A screenshot of a computer Description automatically generated with medium confidence

**NEW QUESTION # 13**

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 # 14

### Task 6

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:

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=kA00e000000LKPdCAOchangev>

CPU 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 # 15

The Infosec team has requested that all operational tasks performed within Cluster 1 be properly logged to include the top 4 severity levels and pushed to their syslog system using highest reliability possible for analysis. This is to include any Virtual Machine changes only.

The Infosec team has also requested that monitor logs for the given RSyslog Server Module be included for now. No extra logs should be included.

No other clusters should connect to this syslog server.

Syslog configuration:

- \* Syslog Name: Corp\_Syslog

- \* Syslog IP: 34.142.155.231

- \* Port: TCP/514

Ensure only Cluster 1 is configured to meet these requirements.

### **Answer:**

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to configure syslog for Cluster 1.

#### 1. Access Cluster 1 Prism Element

Since the requirement is to only configure Cluster 1 and not other clusters, this task must be performed in the Prism Element (PE) interface for Cluster 1.

- \* 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. Add the Syslog Server

- \* In the Cluster 1 PE interface, click the gear icon (Settings) in the top-right corner.

- \* From the left-hand menu, select Syslog.

- \* In the "Remote Syslog Server" section, click the + Add Syslog Server button.

- \* Fill in the server details as required:

- \* Name: Corp\_Syslog

- \* IP Address: 34.142.155.231

- \* Port: 514

- \* Protocol: TCP (This provides the highest reliability, as requested).

- \* Click Save.

#### 3. Configure Log Modules and Severities

Now, we must specify which logs to send to the new server.

- \* On the same Syslog settings page, find the "Syslog Configuration" section and click the Configure button (or Modify if a default is present).

- \* A dialog box "Select Modules and Levels" will appear.

- \* Uncheck all modules to ensure no extra logs are sent.

- \* Check the box for the RSyslog Server Module (or rsyslog\_forwarder).

- \* For this module, check the boxes for the severities: Critical, Warning, and Info.

- \* Check the box for the ApiServer module.

- \* This module logs all operational tasks and audit trails, which includes all Virtual Machine changes.

- \* For this module, check the boxes for the top severity levels: Critical, Warning, and Info.

- \* Ensure no other modules (like Stargate, Cerebro, Zookeeper, etc.) are checked.

- \* Click Save.

Cluster 1 is now configured to send its audit logs (including VM changes) and its own syslog monitoring logs to the Corp\_Syslog server via TCP, fulfilling all security requirements.

### Topic 2, Performance Based Questions Set 2

#### 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 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 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

## NEW QUESTION # 16

### Task 7

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

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