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Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q19-Q24):

NEW QUESTION # 19
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 # 20
An administrator wants to increase the performance of their Database virtual machine.
Database_VM has a database that is spread across three vDisks in the volume group Database_VM. The volume group is directly attached to the virtual machine. Previous performance analysis has indicated all storage requests are going to the same node. While this test environment has 1 node, the production environment has 3 nodes.
Configure the Volume Group Database_VM so that it's optimized for the user's VM and the production environment. The virtual machine has been powered off and moved to this test cluster for the maintenance work.
Note: Do not power on the VM.

Answer:

Explanation:
See the Explanation below for detailed answer.
Explanation:
Here is the step-by-step solution to configure the Volume Group for optimized performance in the production environment.
This task is performed in Prism Central.
* From the main dashboard, navigate to Compute & Storage > Volume Groups.
* Find the Volume Group named Database_VM in the list.
* Select the checkbox next to Database_VM.
* Click the Actions dropdown menu and select Update.
* In the "Update Volume Group" dialog, scroll to the bottom of the "Basic Configuration" section.
* Find the checkbox labeled Enable Client Side Load Balancing and check it.
Note: This setting allows the iSCSI initiator within the guest VM to connect to all CVMs in the cluster, distributing the storage load from the three vDisks across all three nodes in the production environment instead of focusing all I/O on just one.
Click Save.

NEW QUESTION # 21

Task 10

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:

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 # 22

An administrator is working to create a VM using Nutanix V3 API calls with the following specifications.

VM specifications:

* vCPUs: 2

* Memory: 8Gb

* Disk Size: 50Gb

* Cluster: Cluster 1

* Network: default-net

* Branding must be disabled on the VM

The API call is failing, indicating an issue with the payload:

"": [

"metadata' is a required property",

"spec' is a required property"

],

"message": "Request could not be processed.",
"reason": "INVALID_REQUEST"
The body is saved in desktop\API_Create_VM.txt.
Correct any issues in the text file that would prevent it from creating the VM. Also ensure the VM will be created as specified and make sure it is saved for re-use using that filename.
Deploy the VM through the API.
Note: Do not power on the VM.

Answer:

Explanation:
See the Explanation below for detailed answer.
Explanation:
Here is the step-by-step solution to correct the API payload and deploy the VM.
This task is performed using the REST API Explorer within Prism Central.
1. Get Required UUIDs
To create a VM, you first need the unique IDs (UUIDs) for the target cluster and network.
* From the Prism Central dashboard, click the question mark (?) icon in the top-right corner and select REST API Explorer.
* Find Cluster 1 UUID:
* In the API Explorer, search for and select the clusters/list (POST) endpoint.
* In the Body field, paste a simple filter: { "kind": "cluster" }
* Click Send.
* In the "Response" body, find the entry for Cluster 1 and copy its metadata.uuid value.
* Find default-net UUID:
* Search for and select the subnets/list (POST) endpoint.
* In the Body field, paste: { "kind": "subnet" }
* Click Send.
* In the "Response" body, find the entry where spec.name is default-net and copy its metadata.uuid value.
2. Correct the API Payload File
The error message "'metadata' is a required property" and "'spec' is a required property" indicates the JSON in the file is malformed and missing the required root-level objects. The file content also does not match the VM specifications.
* On the desktop, open API_Create_VM.txt in Notepad.
* Delete all existing text in the file (including the POST Call and Body: lines).
* Paste the following corrected and complete JSON payload into the file.
* Replace <UUID_for_Cluster_1> and <UUID_for_default-net> with the actual UUIDs you copied in the previous step.
JSON
{
"spec": {
"name": "API_VM_Task15",
"resources": {
"power_state": "OFF",
"num_sockets": 2,
"num_vcpus_per_socket": 1,
"memory_size_mib": 8192,
"disk_list": [
{
"disk_size_mib": 51200,
"device_properties": {
"device_type": "DISK"
}
}
],
"nic_list": [
{
"subnet_reference": {
"kind": "subnet",
"uuid": "<UUID_for_default-net>"
}
}
],
"guest_customization": {

"is_overridable": true,
"override_branding": true
}
},
"cluster_reference": {
"kind": "cluster",
"uuid": "<UUID_for_Cluster_1>"
}
},
"metadata": {
"kind": "vm"
}
}
* Save and close the API_Create_VM.txt file.
Correction Summary:
* JSON Structure: The original file was malformed. The new payload provides the required spec and metadata objects at the root level.
* vCPUs: Set to 2 sockets (2 vCPUs total).
* Memory: Set to 8192 MiB (8 GB).
* Disk: Set to 51200 MiB (50 GB) and removed the unneeded CDROM.
* Cluster/Network: Placeholders are added for the required UUIDs.
* Branding: guest_customization.override_branding: true is added to disable branding for the VM.
3. Deploy the VM via API
* Return to the REST API Explorer.
* Search for and select the vms (POST) endpoint (the one with the description "Create a new vm").
* Open the corrected API_Create_VM.txt file, copy its entire contents (which now includes your specific UUIDs).
* Paste the complete JSON payload into the Body field of the vms (POST) endpoint.
* Click Send.
The API will return a 202 Accepted response, and the VM will be created (and remain powered off) on Cluster 1.

NEW QUESTION # 23
The DB team is requesting an SQL database instance and has requested it be configured for best performance.
This VM has been migrated from a 3 tier solution into Nutanix.
The database VM hosts 4 databases, each set to a 20 GB limit. Logs are expected to not grow beyond 20 GB and should be limited to within 25% to avoid runaway processes. Do not configure more storage than is needed.
The VM that has been migrated is identified as sql3532. Once the VM has been properly reconfigured, the DBA team will reconfigure the OS and database.
The VM should be configured as per KB-3532.
While this VM is being tested, make sure it is the first VM to power up in the event the node it is on goes down.
To maximize performance, ensure as much of the VM as possible will be kept on SSD drives.
Note: The VM does not need to be powered on. The VM should remain on the default container and should not be configured with a volume group. No network is required at this time.

Answer:

Explanation:
See the Explanation below for detailed answer.
Explanation:
Here is the step-by-step solution to reconfigure the sql3532 virtual machine.
This task is performed from the Prism Element interface for the cluster the VM is on (e.g., Cluster 1).
1. Locate and Update the VM
* From the Prism Element main dashboard, navigate to the VM view.
* Find the VM named sql3532 in the VM table.
* Select the checkbox next to sql3532 and click the Update button.
2. Configure HA Priority and Flash Mode
In the "Update VM" dialog, configure the HA and SSD performance settings:
* HA Priority:
* Find the VM High Availability section.
* Select the High Priority radio button. This ensures it is one of the first VMs to power on during an HA event.
* Flash Mode (SSD Performance):

* Scroll down to the Flash Mode section.
* Check the box to Enable Flash Mode. This pins the VM's vDisks to the SSD tier, satisfying the requirement to keep as much of the VM as possible on SSDs, especially since it's on the default (hybrid) container.
3. Reconfigure Disks (per KB-3532)
While still in the "Update VM" dialog, scroll to the Disks section to add the new data and log disks. The key to "best performance" (KB-3532) is to place Data and Logs on separate vSCSI controllers.
* (The VM already has an OS disk, which we will assume is on scsi.0.)
* Add Data Disk:
* Click the + Add New Disk button.
* Storage Container: default (as required).
* Size: 80 GB (for the 4 x 20 GB databases).
* Bus Type: SCSI.
* Device Index: 1. (This creates a new vSCSI controller, scsi.1, for the data disk).
* Click Add.
* Add Log Disk:
* Click the + Add New Disk button.
* Storage Container: default (as required).
* Size: 20 GB.
* Bus Type: SCSI.
* Device Index: 2. (This creates a third vSCSI controller, scsi.2, for the log disk).
* Click Add.
4. Save Configuration
* After adding the disks and setting HA/Flash Mode, click the main Save button at the bottom of the
"Update VM" dialog.
The VM is now configured with high availability, its storage is pinned to SSD, and its disk layout follows performance best practices by separating the OS, Data, and Log I/O paths onto three different controllers.

NEW QUESTION # 24

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