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Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q27-Q32):

NEW QUESTION # 27

Task 4

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 xxxxxxxxxx --interfaces ethX,ethX update_uplinks manage_ovs --bridge_name brX-up --interfaces ethX,ethX --bond_name bond1 --bond_mode xxxxxxxxxx update_uplinks
```

See the Explanation for step by step solution.

Answer:

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 # 28

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 # 29

A company who offers Infrastructure as a Service needs to onboard a new customer. The new customer requires a dedicated cloud

plan which tolerates two host failures.

The customer is planning to move current workloads in three waves, with three months between waves starting today:

- * Wave One: 100 VMs
- * Wave Two: 50 VMs
- * Wave Three: 20 VMs

Workload profile is:

- * vCPU: 4
- * vRAM: 16 GB
- * Storage: 200 GB

The service provider company needs to estimate required resources upfront, to accommodate customer requirements, considering also that:

- * limit the number of total nodes
- * selected system vendor HPE
- * selected model DX365-10-G11-NVMe
- * full-flash node (including NVMe + SSD)
- * 12 months runway

Create and save the scenario as IaaS and export to the desktop, name the file IaaS-requirement.pdf Note: You must export the PDF to the desktop as IaaS-requirement.pdf to receive any credit.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to create and export the capacity planning scenario. This task is performed within Prism Central.

1. Navigate to the Planning Dashboard

- * From the Prism Central main menu (hamburger icon), navigate to Operations > Planning.

2. Create and Define the Scenario

- * Click the + Create Scenario button.

* In the dialog box:

- * Scenario Name: IaaS

* Scenario Type: Select New Workload

- * Click Create. This will open the scenario editor.

3. Configure Cluster and Runway Settings

- * In the "IaaS" scenario editor, find the Runway setting (top left) and set it to 12 Months.

* Find the Cluster configuration tile and click Edit.

- * Set Number of Host Failures to Tolerate to 2.

* Click Save.

4. Define the Workload Profile

- * In the Workloads section, click the + Add Workload button.

* Select Create a new workload profile.

* Fill in the VM specifications:

- * Workload Name: Customer-VM (or similar)

* vCPU per VM: 4

* Memory per VM: 16 GB

* Storage per VM: 200 GB

* Click Add.

5. Set the Workload Growth Plan (Waves)

- * You will be returned to the main scenario editor. In the timeline section ("Workload Plan"), add the VMs:

* Wave One (Today):

- * Click + Add under the "Today" column.

* Select the Customer-VM profile.

* Enter 100 VMs.

* Click Add.

* Wave Two (3 Months):

- * Click the + icon on the timeline itself.

* Set the date to 3 Months from today.

- * Click + Add under this new "3 Months" column.

* Select the Customer-VM profile.

* Enter 50 VMs.

* Click Add.

- * Wave Three (6 Months):
 - * Click the + icon on the timeline.
 - * Set the date to 6 Months from today.
 - * Click + Add under this new "6 Months" column.
 - * Select the Customer-VM profile.
 - * Enter 20 VMs.
 - * Click Add.
6. Select the Hardware
- * In the Hardware configuration tile, click Change Hardware.
 - * In the "Select Hardware" pane:
 - * Vendor: Select HPE.
 - * Model: Search for and select DX365-10-G11-NVMe.
 - * Note: This model is full-flash by definition, satisfying the requirement.
 - * Click Done. The planner will recalculate the required nodes.
7. Save and Export the Scenario
- * Click the Save icon (floppy disk) in the top-right corner to save the IaaS scenario.
 - * Click the Export icon (arrow pointing down) in the top-right corner.
 - * Select PDF from the dropdown menu.
 - * A "Save As" dialog will appear.
 - * Navigate to the Desktop.
 - * Set the file name to IaaS-requirement.pdf.
 - * Click Save.

NEW QUESTION # 30

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 # 31

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 # 32

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