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Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Sample Questions (Q31-Q36):

NEW QUESTION # 31

Use Prism Element for this question.

The Application team has a 3 tier application (App Server, Web Server, and Database Server) that is mission critical and requires as close to 0 RPO and RTO as possible with their current license level.

The organization has 2 clusters, with one cluster (Cluster 1) being production and the other cluster (Cluster 2) being remote/DR. Cluster 2 should be able to fail back to Cluster 1.

The connectivity between the two sites is >5ms and replication traffic should not use more than 10Mbps of bandwidth. The Application team requests a plan that includes the ability to go back 2 days locally, and 2 days remotely.

The team also requests that all 3 VMs be treated as a single group and backed up collectively in a snapshot.

The three VMs are:

- * Web-Prod
- * App-Prod
- * DB-Prod

Use Task3 as part of the name for any objects created for this task.

Note: VMs do NOT need to be powered on. You will need to use the 172.30.0.x IP addresses when configuring DR.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to configure Disaster Recovery from the Cluster 1 Prism Element interface.

1. Add Cluster 2 as a Remote Site

First, you must register Cluster 2 as a DR target for Cluster 1.

- * From the Cluster 1 Prism Element dashboard, navigate to Data Protection from the main dropdown menu.
- * Click the Remote Site tab.
- * Click the + Remote Site button and select Physical Cluster.
- * In the "Name" field, enter Cluster2_DR_Task3.
- * In the "Address" field, enter the 172.30.0.x Virtual IP address of Cluster 2.
- * Click Save. The clusters will exchange credentials and connect.

2. Throttle Replication Bandwidth

Next, apply the 10 Mbps bandwidth limit for traffic going to Cluster 2.

- * On the same Remote Site tab, select the newly created Cluster2_DR_Task3.
- * Click the Update button.
- * In the dialog, set the Bandwidth Limit to 10 Mbps.
- * Click Save.

3. Create the Protection Domain

A Protection Domain (PD) is the top-level object that will manage the VMs and replication schedules.

- * In the Data Protection dashboard, click the Table tab.
- * Click the + Protection Domain button and select Async DR.
- * For the Name, enter App_PD_Task3.
- * Click Create.

4. Protect VMs in a Consistency Group

Now you will add the three application VMs to the new Protection Domain as a single Consistency Group (CG).

- * You will be taken to the dashboard for the new App_PD_Task3. In the Entities panel, click the Protect Entities button.
- * In the "Protect Entities" dialog, search for and select the three VMs:
 - * Web-Prod
 - * App-Prod
 - * DB-Prod
- * Click Next.
- * Select Create new consistency group and name it App_CG_Task3.
- * Click Protect.

5. Create the Replication Schedule

Finally, configure the schedule to meet the RPO and retention requirements.

- * In the App_PD_Task3 dashboard, click the Schedules tab.
- * Click the + New Schedule button.
- * Remote Site: Select Cluster2_DR_Task3.
- * RPO (Repeat every): Select NearSync. Set the RPO to 1 minute.
- * Note: This is the lowest possible RPO for an Async (>5ms latency) connection, fulfilling the "as close to 0" requirement.
- * Local Retention: Set to 2 Days.
- * Remote Retention: Set to 2 Days.
- * Ensure the "Store snapshots for 2-way replication" checkbox is enabled to allow failback from Cluster 2.
- * Click Create Schedule.

NEW QUESTION # 32

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 # 33

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 # 34

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 # 35

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 below for detailed answer.

Explanation:

Here is the step-by-step solution to apply the security requirements to Cluster 2.

1. Access Cluster 2 Prism Element

First, we must access the Prism Element (PE) interface for Cluster 2, as most security settings are cluster-specific.

* From the Prism Central dashboard, navigate to Hardware > Clusters.

* Find Cluster 2 in the list and click its name. This will open the Prism Element login page for that specific cluster in a new tab.

* Log in to Cluster 2's Prism Element using the admin credentials.

2. Requirement: Update Node Root Password

This task syncs the root password for all AHV hypervisor nodes with the cluster's admin user password.

* In the Cluster 2 PE interface, click the gear icon (Settings) in the top right corner.

* Select Cluster Lockdown from the left-hand menu.

* Click the Set Root Password on All Hosts button.

* A dialog box will appear. Enter the current admin password (the one you just used to log in) into both the New Password and Confirm New Password fields.

* Click Save. This will propagate the admin password to the root user on all nodes in Cluster 2.

3. Requirement: Add CVM SSH Key

This task adds the security team's public key to the admin user, which is required before we can disable password-based login.

* On the desktop, navigate to the Files > SSH folder.

* Open the id_rsa.pub file (or equivalent public key file) with Notepad.

* Copy the entire string of text (e.g., ssh-rsa AAAA...).

* In the Cluster 2 PE interface, go to Settings (gear icon) > User Management.

* Select the admin user and click Modify User.

* Paste the copied public key into the Public Keys text box.

* Click Save.

4. Requirement: Apply SCMA Policies (All other requirements)

The remaining requirements are all applied via the command line on a CVM using Nutanix's Security Configuration Management Automation (SCMA).

* Access the CVM:

* Find a CVM IP for Cluster 2 by going to Hardware > CVMs in the PE interface.

* Open an SSH client (like PuTTY) and connect to that CVM's IP address.

* Log in with the username admin and the corresponding password.

* Output Current Policy (Req 2):

* Before making changes, run the following command to see the current policy:

```
ncli scma status
```

* Copy the entire output from your SSH terminal.

* Open Notepad on the desktop, paste the copied text, and Save the file to the desktop as output.

txt.

* Apply New Policies (Req 3, 4, 5):

* Run the following commands one by one. The cluster will apply them immediately without a reboot.

* Enable AIDE (Req 3):

```
ncli scma update aide-status=enabled aide-schedule=weekly
```

* Enable High-Strength Passwords (Req 4):

```
ncli scma update password-policy=high
```

* Require SSH Keys for CVMs (Req 5):

```
ncli scma update ssh-login=keys-only
```

Verification

You can verify all changes by running the status command again. The output should now reflect the new, hardened security posture.

```
ncli scma status
```

* AIDE Status: should show Enabled

* AIDE Schedule: should show Weekly

* Password Policy: should show High

* SSH Login: should show keys-only

NEW QUESTION # 36

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