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

NEW QUESTION # 31

Task 8

An administrator has environment that will soon be upgraded to 6.5. In the meantime, they need to implement log and apply a security policy named Staging_Production, such that not VM in the Staging Environment can communicate with any VM in the production Environment, Configure the environment to satisfy this requirement.

Note: All other configurations not indicated must be left at their default values.

Answer:

Explanation:

See the Explanation for step by step solution.

Explanation:

To configure the environment to satisfy the requirement of implementing a security policy named Staging_Production, such that no VM in the Staging Environment can communicate with any VM in the production Environment, you need to do the following steps: Log in to Prism Central and go to Network > Security Policies > Create Security Policy. Enter Staging_Production as the name of the security policy and select Cluster A as the cluster.

In the Scope section, select VMs as the entity type and add the VMs that belong to the Staging Environment and the Production Environment as the entities. You can use tags or categories to filter the VMs based on their environment.

In the Rules section, create a new rule with the following settings:

Direction: Bidirectional

Protocol: Any

Source: Staging Environment

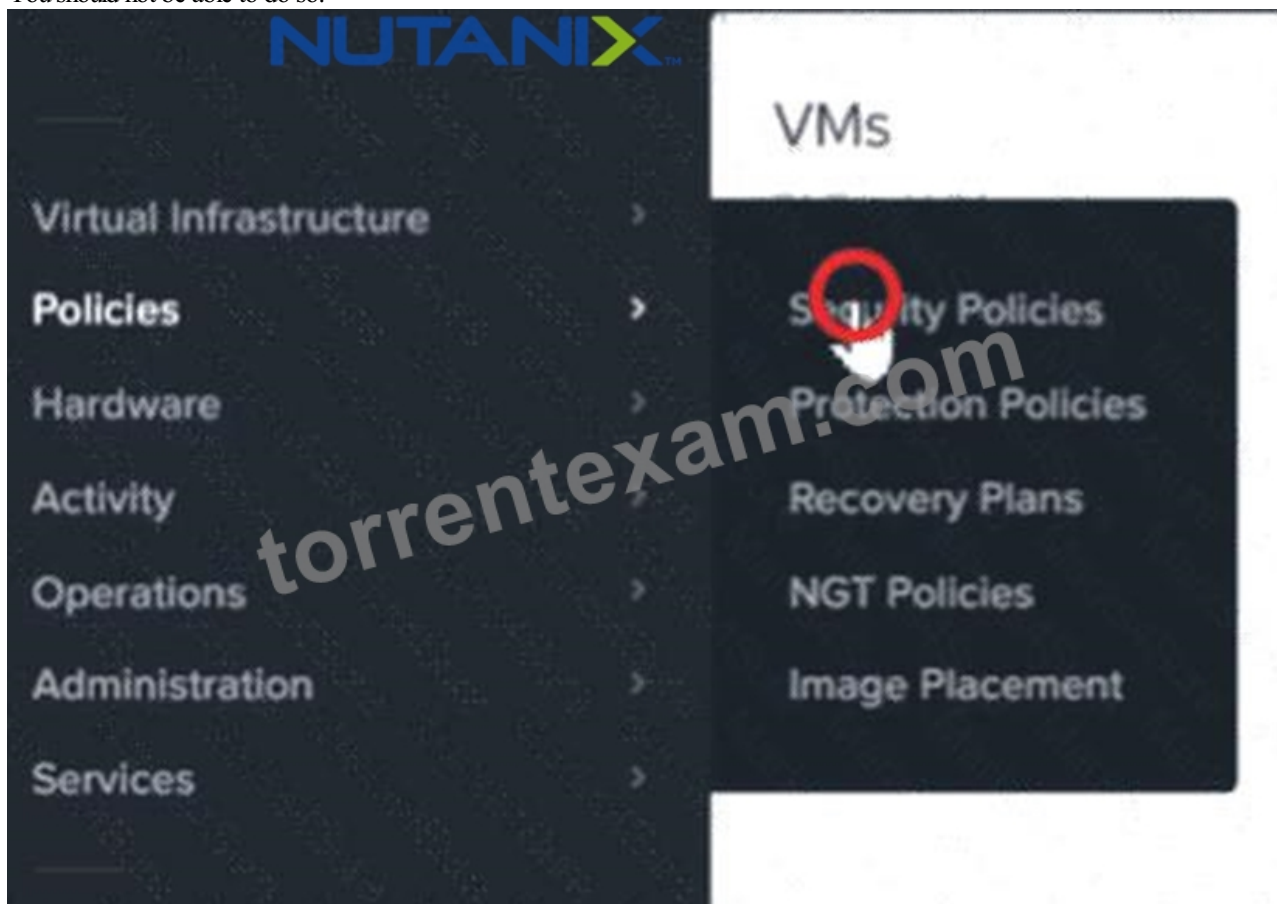
Destination: Production Environment

Action: Deny

Save the security policy and apply it to the cluster.

This will create a security policy that will block any traffic between the VMs in the Staging Environment and the VMs in the Production Environment. You can verify that the security policy is working by trying to ping or access any VM in the Production Environment from any VM in the Staging Environment, or vice versa.

You should not be able to do so.



Name

Staging_Production

Purpose

Isolate Staging_Production

Isolate This Category

Environment: Staging

From This Category

Environment: Production

☐ Apply the isolation only within a subset of the data center

Advanced Configuration

Policy Hit Logs

☐ Disabled

NUTANIX

Cancel

Apply Now

Save and Monitor

2 Actions

Create Security Policy Export & Import

Type name Update

1 selected 0

Apply Monitor

1 Staging_Production Isolate HR from IT Environment: Staging Environment: Production Monitoring few seconds ago

To enforce the policy, check the box next to the policy, choose Actions, then Apply.

NEW QUESTION # 32

Your security team is working on automation to manage Security Policies.

They have exported some of the existing rules to the file "Security Policy.txt" located on the desktop. This file needs to be modified for the test environment.

* All rules except the quarantine rule should be logged.

- * Only the Quarantine rule should be enforced, the other rules will only be logged.
- * The quarantine rule should affect the SecOps environment.
- * The SMB rule should only affect VMs with the "smbhost" and "smbclient" tags.
- * The "DN test" policy should allow ipv6 and should not restrict any protocols between the included tiers.

There are three rules in the file, do not delete, add or copy lines. Only replace xxxx with the correct value as appropriate. It is possible that not all "xxxxx" will be replaced.
 Save the file with the same name.
 Possible values to replace the "xxxxx":
 8080
 ALL
 APPLY
 false
 MONITOR
 Non-Prod
 SecOps
 smbhost
 smbclient
 TCP
 True

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to modify the security policy file as required.

Navigate to the desktop and open the file Security Policy.txt (which corresponds to the provided Security Policy.bak content) using a text editor like Notepad.

Modify the file content by replacing the xxxxx and xxxx placeholders according to the security requirements.

Modifications by Rule

Here are the specific changes to make within the file:

1. Quarantine Rule

Requirement 1 (No Logging): The quarantine rule should not be logged.

Change "is_policy_hitlog_enabled": "xxxxx" to "is_policy_hitlog_enabled": "false" Requirement 2 (Enforce): This rule must be enforced.

Change "action": "xxxxx" (under quarantine_rule) to "action": "APPLY"

Requirement 3 (Environment): The rule must affect the "SecOps" environment.

Change "Environment": ["xxxxx"] to "Environment": ["SecOps"]

2. SMB-block Rule

Requirement 1 (Logging): This rule must be logged.

Change "is_policy_hitlog_enabled": "xxxxx" to "is_policy_hitlog_enabled": "True" Requirement 2 (Monitor): This rule must not be enforced, only logged.

Change "action": "xxxxx" (under isolation_rule) to "action": "MONITOR"

Requirement 4 (Tags): The rule must affect the "smbhost" and "smbclient" tags.

Change "SMBv1": ["xxxxx"] to "SMBv1": ["smbhost"]

Change "SMRv1": ["xxxxx"] to "SMRv1": ["smbclient"]

3. DN test (dn-policy1) Rule

Requirement 2 (Monitor): This rule must not be enforced, only logged.

Change "action": "xxxx" (under app_rule) to "action": "MONITOR"

Requirement 5 (Allow IPv6): This policy must allow IPv6 traffic.

Change "allow_ipv6_traffic": "xxxx" to "allow_ipv6_traffic": "True"

Final Step

After making all the replacements, Save the file, overwriting the original Security Policy.txt on the desktop.

Example of completed rules (replace xxxxx accordingly):

Rule Name: Quarantine Rule

Logged: false

Action: APPLY

Environment: SecOps

Protocols: TCP

Ports: 8080

Rule Name: SMB Rule

Logged: True
Action: MONITOR
Tags: smbhost, smbclient
Protocols: TCP
Ports: 8080
Rule Name: DN Test Policy
Logged: True
Action: MONITOR
Environment: Non-Prod
Protocols: ALL
Ports: 8080

NEW QUESTION # 33

An administrator needs to perform AOS and AHV upgrades on a Nutanix cluster and wants to ensure that VM data is replicated as quickly as possible when hosts and CVMs are rebooted.

Configure Cluster 1 so that after planned host and CVM reboots, the rebuild scan starts immediately.

Note:

You will need to use SSH for this task. Ignore the fact that this is a 1-node cluster.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to configure the immediate rebuild scan on Cluster 1.

This task must be performed from an SSH session connected to a CVM (Controller VM) on Cluster 1.

1. Access the Cluster 1 CVM

* From the Prism Central dashboard, navigate to Hardware > Clusters and click on Cluster 1 to open its Prism Element (PE) interface.

* In the Cluster 1 PE, navigate to Hardware > CVMs to find the IP address of any CVM in the cluster.

* Use an SSH client (like PuTTY) to connect to the CVM's IP address.

* Log in with the admin user and password.

2. Modify the Rebuild Delay Setting

By default, the cluster waits 15 minutes (900 seconds) before starting a rebuild scan after a CVM reboot. You will change this setting to 0.

* Once logged into the CVM, run the following command to set the delay to 0 seconds:

```
gflag --set --gflags=stargate_delayed_rebuild_scan_secs=0
```

* (Optional but recommended) You can verify the change took effect by running the "get" command:

```
gflag --get --gflags=stargate_delayed_rebuild_scan_secs
```

The output should now show stargate_delayed_rebuild_scan_secs=0.

NEW QUESTION # 34

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-a1e2-8627cf90cae6"
      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 # 35

An administrator needs to configure a new write-intensive MS-SQL VM on Cluster 1.

VM specifications:

- * vCPU: 12
- * vRAM: 128GB
- * Storage: 100 GB OS, 750 GB Data

Create the VM and any objects needed in the current environment to meet requirements, maximizing performance for the production environment. Include NEWSQL in the name of any new objects.

Production environment:

- * 4 nodes
- * Each node has two 8-core CPUs
- * Each node has 1024 GB RAM
- * Storage: 4 × 7.16 TB SSD Disks and 8 × 8 TB HDD disks

Make sure the VM is configured for maximum performance for the production environment.

Note: Network configuration is not required at this time. Do not power on the VM.

Answer:

Explanation:

See the Explanation below for detailed answer.

Explanation:

Here is the step-by-step solution to create the high-performance SQL VM on Cluster 1.

This task requires two phases: first, creating a new all-flash storage container, and second, creating the VM with a specific vNUMA and disk controller configuration for maximum performance.

1. Access Cluster 1 Prism Element

- * 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. Create the All-Flash Storage Container

To maximize performance for a "write-intensive" workload on a hybrid cluster, the data and log disks must be placed on an all-flash container.

- * In the Cluster 1 PE interface, click the gear icon (Settings) in the top-right corner.
- * From the left-hand menu, select Storage.
- * Click the + Storage Container button.
- * Fill in the basic details:
- * Name: NEWSQL_Flash_Container
- * Click Advanced Settings.
- * Scroll down to the Storage Tier section.
- * Select the SSD radio button. This pins all data in this container to the SSD tier, ensuring all-flash performance.
- * Click Save.

3. Create and Configure the VM

Now, create the VM, applying vNUMA and multi-SCSI controller best practices.

- * From the main PE dashboard, navigate to the VM view.
- * Click the + Create VM button.
- * Enter the compute details. This configuration is critical for vNUMA performance, as it tells the VM's guest OS about the underlying physical NUMA topology (2 CPUs with 8 cores each).
- * Name: NEWSQL_VM
- * vCPUs: 12
- * Number of Sockets: 2
- * Cores per vCPU: 6 (This creates a 2-socket, 6-core VM, totaling 12 vCPUs)
- * Memory: 128 GB
- * Scroll down to the Disks section and add the OS disk:
- * Click + Add New Disk.
- * Storage Container: Select the default (hybrid) container.
- * Size: 100 GB
- * Bus: SCSI
- * Device Index: 0 (This will be scsi.0)
- * Click Add.
- * Add the Data disk (on its own controller for parallel processing):
- * Click + Add New Disk.
- * Storage Container: Select NEWSQL_Flash_Container.
- * Size: 750 GB
- * Bus: SCSI
- * Device Index: 1 (This creates a new controller, scsi.1)
- * Click Add.
- * Add a Log disk (on its own controller, a best practice for "write-intensive" SQL):
- * Click + Add New Disk.
- * Storage Container: Select NEWSQL_Flash_Container.
- * Size: 100 GB (A common size for a log disk)
- * Bus: SCSI
- * Device Index: 2 (This creates a third controller, scsi.2)
- * Click Add.
- * Review the configuration: You should now have three disks attached, each on a separate controller (scsi.0, scsi.1, scsi.2). This provides the maximum I/O performance.
- * Ensure the Power on VM after creation box is unchecked.
- * Click Save.

Topic 1, Performance Based Questions Set 1

Environment

You have been provisioned a dedicated environment for your assessment which includes the following:

Initial Steps

- * When you first log into Prism Central or Prism Element you may see the EULA screen. Accept the EULA with any name and then disable Pulse.
- * To access Prism Element, the pass-through from Prism Central
(Infrastructure\Hardware\Clusters\cluster-x\Launch Prism Element) works better than directly using the external IP:9440.

Workstation

- * Windows Server 2019
- * All software/tools/etc to perform the required tasks
- * Nutanix Documentation and whitepapers can be found in Desktop\Files\Documentation and Desktop\Files\Documentation 6.10
- * Note that the Workstation is the system you are currently logged into
- * Windows Server 2019
- * All software/tools/etc to perform the required tasks
- * Nutanix Documentation and whitepapers can be found in Desktop\Files\Documentation and Desktop\Files\Documentation 6.10

* Note that the Workstation is the system you are currently logged into Nutanix Cluster

* There are two clusters provided, connected to one Prism Central. The connection information for the relevant cluster will be displayed to the right of the question. Please make sure you are working on the correct cluster for each item. Please ignore any licensing violations.

Important Notes

* If the text is too small and hard to read, or you cannot see all of the GUI, you can increase/decrease the zoom of the browser with CTRL + and CTRL - (the plus and minus keys).



Prism Central Web Console

* admin / ykZUCJMER7V*

* nutanix / UJ2xE!DEXGY

Cluster 1

* CVM external IP: 34.53.118.63

* CVM DR IP: 172.30.0.6

* admin / 9Fw0B!3QH4X)

* nutanix / GNP*FE2504XWZ

* root / KR*6HY0z5E8

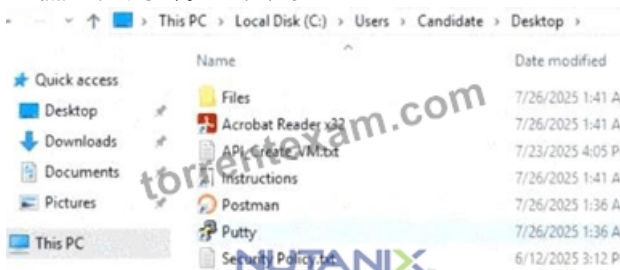
Cluster 2

* CVM external IP: 34.82.155.5

* CVM DR IP: 172.30.0.4

* admin / 5*K30fA76X

* nutanix / N*3F%1ME!Z7T9



NEW QUESTION # 36

.....

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