

Valid Exam NCM-MCI Blueprint & Valid NCM-MCI Test Book



NCM-MCI Exam Details

Exam Name	Nutanix Certified Master - Multicloud Infrastructure
Exam Code	NCM-MCI
Exam Price	\$299 USD
Duration	180 minutes
Number of Questions	16-20
Passing Score	3000/1000-6000
Recommended Training / Books	Advanced Administration & Performance Management (AAPM) v6.5
Schedule Exam	Nutanix
Sample Questions	Nutanix NCM-MCI Sample Questions
Recommended Practice	Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) Practice Test

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Nutanix Certified Master - Multicloud Infrastructure v6.10 Sample Questions (Q14-Q19):

NEW QUESTION # 14

Task 7

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.



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Name

Purpose

Isolate This Category

From This Category

Apply the isolation only within a subset of the data center

Advanced Configuration

Policy Hit Logs ? Disabled

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2 Actions

Type name: Update

1 selected of 1

No Delete

Apply

Monitor

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 # 15

Task 2

An administrator needs to configure storage for a Citrix-based Virtual Desktop infrastructure.

Two VDI pools will be created

Non-persistent pool names MCS_Pool for tasks users using MCS Microsoft Windows 10 virtual Delivery Agents (VDAs)

Persistent pool named Persist_Pool with full-clone Microsoft Windows 10 VDAs for power users
20 GiB capacity must be guaranteed at the storage container level for all power user VDAs The power user container should not be able to use more than 100 GiB Storage capacity should be optimized for each desktop pool.
Configure the storage to meet these requirements. Any new object created should include the name of the pool(s) (MCS and/or Persist) that will use the object.
Do not include the pool name if the object will not be used by that pool.
Any additional licenses required by the solution will be added later.

Answer:

Explanation:

See the Explanation for step by step solution

Explanation:

To configure the storage for the Citrix-based VDI, you can follow these steps:

Log in to Prism Central using the credentials provided.

Go to Storage > Storage Pools and click on Create Storage Pool.

Enter a name for the new storage pool, such as VDI_Storage_Pool, and select the disks to include in the pool. You can choose any combination of SSDs and HDDs, but for optimal performance, you may prefer to use more SSDs than HDDs.

Click Save to create the storage pool.

Go to Storage > Containers and click on Create Container.

Enter a name for the new container for the non-persistent pool, such as MCS_Pool_Container, and select the storage pool that you just created, VDI_Storage_Pool, as the source.

Under Advanced Settings, enable Deduplication and Compression to reduce the storage footprint of the non-persistent desktops.

You can also enable Erasure Coding if you have enough nodes in your cluster and want to save more space. These settings will help you optimize the storage capacity for the non-persistent pool.

Click Save to create the container.

Go to Storage > Containers and click on Create Container again.

Enter a name for the new container for the persistent pool, such as Persist_Pool_Container, and select the same storage pool, VDI_Storage_Pool, as the source.

Under Advanced Settings, enable Capacity Reservation and enter 20 GiB as the reserved capacity. This will guarantee that 20 GiB of space is always available for the persistent desktops. You can also enter 100 GiB as the advertised capacity to limit the maximum space that this container can use. These settings will help you control the storage allocation for the persistent pool.

Click Save to create the container.

Go to Storage > Datastores and click on Create Datastore.

Enter a name for the new datastore for the non-persistent pool, such as MCS_Pool_Datastore, and select NFS as the datastore type. Select the container that you just created, MCS_Pool_Container, as the source.

Click Save to create the datastore.

Go to Storage > Datastores and click on Create Datastore again.

Enter a name for the new datastore for the persistent pool, such as Persist_Pool_Datastore, and select NFS as the datastore type. Select the container that you just created, Persist_Pool_Container, as the source.

Click Save to create the datastore.

The datastores will be automatically mounted on all nodes in the cluster. You can verify this by going to Storage > Datastores and clicking on each datastore. You should see all nodes listed under Hosts.

You can now use Citrix Studio to create your VDI pools using MCS or full clones on these datastores. For more information on how to use Citrix Studio with Nutanix Acropolis, see Citrix Virtual Apps and Desktops on Nutanix or Nutanix virtualization environments.

Create Storage Container ? x

Name
ST_MCS_Pool

Storage Pool
Storage_Pool

Max Capacity
53.26 TiB (Physical) Based on storage pool free unreserved capacity

Advanced Settings

Replication Factor ⓘ
2

Reserved Capacity
20 GiB

Advertised Capacity
Total GiB GiB

Compression
Perform post-process compression of all persistent data. For inline compression, set the delay to 0.
Delay (in minutes)
0

Deduplication
 Cache
Perform inline deduplication of read caches to optimize performance.
 Capacity
Perform post-process deduplication of persistent data.

Erasure Coding ⓘ
 Enable
Erasure coding enables capacity savings across solid-state drives and hard disk drives.

Filesystem Whitelists
Enter comma-separated entries

Advanced Settings Cancel Save

Create Storage Container ? x

Name

Storage Pool

Max Capacity
53.26 TiB (Physical) Based on storage pool free unreserved capacity

Advanced Settings

Replication Factor ?

Reserved Capacity
 GiB

Advertised Capacity
 GiB

Compression
 Perform post-process compression of all persistent data. For inline compression, set the delay to 0.
 Delay (in minutes)

Deduplication

Cache
 Perform inline deduplication of read caches to optimize performance.

Capacity
 Perform post-process deduplication of persistent data.

Erasure Coding ?

Enable
 Erasure coding enables capacity savings across solid-state drives and hard disk drives.

Filesystem Whitelists

<https://portal.nutanix.com/page/documents/solutions/details?targetId=BP-2079-Citrix-Virtual-Apps-and-Desktops:bp-nutanix-storage-configuration.html>

NEW QUESTION # 16

Task 11

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



<input type="checkbox"/>	Name	VMs	Hosts	VM Compliance Status	Modified By	Last Modified
<input type="checkbox"/>	bugtestaffinity	2	1	2 Non Compliant	admin	Nov 25, 2022, 07:49 PM

NEW QUESTION # 17

Task 3

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:

See the Explanation for step by step solution

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=kA00e000000LKPdCAO> change vCPU 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:8db2: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 # 18

Task 14

The application team has requested several mission-critical VMs to be configured for disaster recovery. The remote site (when added) will not be managed by Prism Central. As such, this solution should be built using the Web Console.

Disaster Recovery requirements per VM:

Mkt01

RPO: 2 hours

Retention: 5 snapshots

Fin01

RPO: 15 minutes

Retention: 7 days

Dev01

RPO: 1 day

Retention: 2 snapshots

Configure a DR solution that meets the stated requirements.

Any objects created in this item must start with the name of the VM being protected.

Note: the remote site will be added later

Answer:

Explanation:

See the Explanation for step by step solution

Explanation:

To configure a DR solution that meets the stated requirements, you can follow these steps:

Log in to the Web Console of the source cluster where the VMs are running.

Click on Protection Domains on the left menu and click on Create Protection Domain.

Enter a name for the protection domain, such as PD_Mkt01, and a description if required. Click Next.

Select Mkt01 from the list of VMs and click Next.

Select Schedule Based from the drop-down menu and enter 2 hours as the interval. Click Next.

Select Remote Site from the drop-down menu and choose the remote site where you want to replicate the VM. Click Next.

Enter 5 as the number of snapshots to retain on both local and remote sites. Click Next.

Review the protection domain details and click Finish.

Repeat the same steps for Fin01 and Dev01, using PD_Fin01 and PD_Dev01 as the protection domain names, and adjusting the interval and retention values according to the requirements.



NUTANIX
+ Protection Domain



A protection domain is a grouping of Virtual Machines for disaster recovery purposes. Enter a name (using alpha numeric characters only) for the protection domain you would like to create. You will then be guided into assigning Virtual Machines to it, and scheduling it.

Name

Mkt01-PD

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Protection Domain

Name Entities Schedule

Unprotected Entities (49) ?

Mkt01

Protected

Search

Auto protect related entities. ?

Protect Selected Entities (1) >

Previous

Next

Auto protect related entities. ?

Protect Selected Entities (1)



Protected Entities (1)

Search by Entity Name

Search by CG Name

<input type="checkbox"/>	Entity Name	CG
<input type="checkbox"/>	Mkt01	Mkt01

< Unprotect Selected Entities

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New Schedule

NUTANIX

Protection Domain ? x

Name Entities Schedule

Configure your local schedule

Repeat every minute(s) ?

Repeat every hour(s) ?

Repeat every day(s) ?

Repeat weekly

S O M O T W T F S

Repeat monthly

Day of month: ?

Start on at

End on at

Create application consistent snapshots

Retention policy

Local keep the last snapshots

Remote sites have not been defined for this cluster.

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Cancel Create Schedule

NEW QUESTION # 19

.....

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