

Nutanix

Exam Questions NCP-MCI-6.10

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10)



NEW QUESTION 1

The team leads of a development environment want to limit developer access to a specific set of VMs. What is the most efficient way to enable the team leads to directly manage these VMs?

- A. Create a role mapping for each team lead and assign appropriately.
- B. Create a VPC for each team lead and give them VPC Admin.
- C. Create a Project for each team lead and assign access.
- D. Create Security Policies to isolate users.

Answer: C

Explanation:

The most efficient way to allow team leads to manage a specific set of VMs is by creating a Project (Option C) in Prism Central and assigning the team leads to that Project.

? Nutanix Projects allow administrators to control VM access based on groups and permissions, ensuring that users only manage VMs assigned to their project.

? Option A (Role Mapping) applies more broadly to roles but does not restrict access to specific VM groups.

? Option B (VPC Admin) is related to network segmentation, not VM access control.

? Option D (Security Policies) are used for network and firewall rules, not VM access control.

References:

? Nutanix Prism Central Projects and Role-Based Access Control (RBAC)

? Nutanix Bible Multi-Tenancy and Project-Based Access Control

? Nutanix KB Setting Up Role-Based Access Control (RBAC) for Prism Central

NEW QUESTION 2

An administrator needs to ensure that a VM is powered on before the rest of the VMs when starting a host. Which configuration option allows this behavior?

- A. Recovery Plan
- B. Host Affinity
- C. High Availability
- D. Agent VM

Answer: C

Explanation:

High Availability (HA) in Nutanix provides priority-based VM restart capabilities to ensure that certain VMs are powered on before others in the event of a host reboot or failure.

? Option C (High Availability) is correct:

? Option A (Recovery Plan) is incorrect:

? Option B (Host Affinity) is incorrect:

? Option D (Agent VM) is incorrect:

References:

? Nutanix Prism Element Guide Configuring HA Reservation and VM Priority

? Nutanix Bible High Availability (HA) and VM Failover

? Nutanix KB VM Restart Priority in High Availability Configurations

NEW QUESTION 3

An administrator needs to modify an AHV VM to support a large number of concurrent network connections. The VM has:

? 4 vCPUs

? 20 GB RAM

? OS: Microsoft Windows Server 2022

Which modification can improve network performance for network I/O-intensive applications?

- A. Add more vCPUs.
- B. Enable AHV Turbo Technology.
- C. Enable RSS VirtIO-Net Multi-Queue.
- D. Add more RAM.

Answer: C

Explanation:

Receive Side Scaling (RSS) VirtIO-Net Multi-Queue improves network performance by distributing network processing across multiple CPU cores.

? Option C (Enable RSS VirtIO-Net Multi-Queue) is correct:

? Option A (Add more vCPUs) is incorrect:

? Option B (Enable AHV Turbo Technology) is incorrect:

? Option D (Add more RAM) is incorrect:

References:

? Nutanix AHV Best Practices Guide Optimizing Network Performance with RSS Multi-Queue

? Nutanix KB Enabling Multi-Queue for High-Performance Applications

NEW QUESTION 4

Which predefined view in Prism Central's Intelligent Operations should be used to determine which VM is consuming excessive resources and causing performance issues for others?

- A. Inactive VMs List
- B. Overprovisioned VMs List
- C. Bully VMs List
- D. Constrained VMs List

Answer: C

Explanation:

The Bully VMs List (Option C) in Prism Central Intelligent Operations identifies VMs consuming excessive CPU, memory, or storage, which negatively affects other VMs.

? Option A (Inactive VMs List) is used for identifying unused VMs but does not detect performance issues.

? Option B (Overprovisioned VMs List) helps identify VMs with excessive allocated resources, but it does not focus on live performance impact.

? Option D (Constrained VMs List) highlights VMs suffering from resource contention, not those causing it.

References:

? Nutanix Prism Central Intelligent Operations and Performance Tuning

? Nutanix KB Identifying and Managing Resource-Hogging VMs

NEW QUESTION 5

What is required to create a category in Nutanix?

A. A name and a value

B. A policy and an entity

C. A service and a scope

D. A catalog and a template

Answer: A

Explanation:

Categories in Nutanix are used to group resources and require only a name and a value for definition.

? Option A (A name and a value) is correct:

? Option B (Policy and Entity) is incorrect:

? Option C (Service and Scope) is incorrect:

? Option D (Catalog and Template) is incorrect:

References:

? Nutanix Prism Central Guide Creating and Managing Categories

? Nutanix KB Using Categories for RBAC and VM Grouping

NEW QUESTION 6

An administrator is responsible for resource planning and needs to plan for resiliency of a 10-node RF3 cluster. The cluster has 100TB of storage.

How should the administrator plan for capacity in the event of future failures?

A. Set Reserve Storage Capacity (%) to 20.

B. Set Reserve Capacity for Failure to None.

C. Set Reserve Capacity for Failure to Auto Detect.

D. Set Reserve Memory Capacity (%) to 20.

Answer: C

Explanation:

RF3 (Replication Factor 3) clusters require sufficient reserved capacity to tolerate failures without data loss.

? Option C (Set Reserve Capacity for Failure to Auto Detect) is correct:

? Option A (Set Reserve Storage Capacity to 20%) is incorrect:

? Option B (Set Reserve Capacity for Failure to None) is incorrect:

? Option D (Set Reserve Memory Capacity to 20%) is incorrect:

References:

? Nutanix Bible Understanding Replication Factor (RF) and Failure Planning

? Nutanix Prism Element Guide Configuring Reserve Capacity for Cluster Resiliency

? Nutanix KB How to Plan Capacity for RF3 Clusters

NEW QUESTION 7

An administrator using a dark site deployment for LCM is attempting to upgrade to the latest BIOS.

After completing an inventory scan, the administrator does not see the expected BIOS version available for upgrade.

What is the most likely reason the latest BIOS is not shown?

A. AOS needs to be upgraded first.

B. The latest compatibility bundle has not been uploaded.

C. The BMC version needs to be upgraded first.

D. The dark site webserver is not accessible.

Answer: B

Explanation:

In a dark site deployment, LCM does not automatically fetch updates from the internet. The administrator must manually upload compatibility bundles.

? Option B (The latest compatibility bundle has not been uploaded) is correct:

? Option A is incorrect:

? Option C is incorrect:

? Option D is incorrect:

References:

? Nutanix LCM Guide Using Compatibility Bundles in Dark Sites

? Nutanix KB Troubleshooting Firmware Updates in Dark Site Deployments

NEW QUESTION 8

What feature allows receiving a weekly message about infrastructure performance summary?

- A. Admin Center Life Cycle Manager
- B. Prism Central Syslog
- C. Infrastructure VMs List
- D. Intelligent Operations Reports

Answer: D

Explanation:

Nutanix Intelligent Operations Reports (Option D) provide weekly summaries of cluster health, performance, and resource consumption.

? These reports include recommendations for optimization, alerts, and forecasted resource usage trends.

? Option A (Admin Center LCM) manages firmware and software upgrades but does not generate weekly performance reports.

? Option B (Prism Central Syslog) is used for logging and event tracking, not performance summaries.

? Option C (Infrastructure VMs List) provides a static list of VMs but does not generate periodic reports.

References:

? Nutanix Prism Central Intelligent Operations and Reports

? Nutanix Bible Automated Insights for Cluster Health Monitoring

? Nutanix KB Using Intelligent Operations Reports for Capacity Planning

NEW QUESTION 9

An administrator wants to disable password-based SSH access for the nutanix user on a CVM to improve security.

What action should the administrator take?

- A. Rename the nutanix user.
- B. Block port 22 on the CVM firewall.
- C. Enable Cluster Lockdown.
- D. Delete the nutanix user.

Answer: C

Explanation:

Enabling "Cluster Lockdown" in Nutanix is the best security measure to prevent password-based SSH logins.

? Option C (Enable Cluster Lockdown) is correct:

? Option A (Rename the nutanix user) is incorrect:

? Option B (Block port 22) is incorrect:

? Option D (Delete the nutanix user) is incorrect:

References:

? Nutanix Security Guide Implementing Cluster Lockdown

? Nutanix KB Best Practices for SSH Security on CVMs

NEW QUESTION 10

Due to application requirements, an administrator needs to support a multicast configuration in an AHV cluster.

Which AHV feature can be used to optimize network traffic so that multicast traffic is only forwarded to the VMs that need to receive it?

- A. LACP
- B. UDP
- C. IGMP Snooping
- D. Network Segmentation

Answer: C

Explanation:

Multicast traffic can generate unnecessary overhead if it is not properly managed. IGMP Snooping (Option C) ensures that multicast packets are only sent to VMs that have requested them, rather than broadcasting to all VMs.

? Option C (IGMP Snooping) is correct:

? Option A (LACP) is incorrect:

? Option B (UDP) is incorrect:

? Option D (Network Segmentation) is incorrect:

References:

? Nutanix AHV Networking Guide Enabling IGMP Snooping

? Nutanix Bible Network Traffic Optimization in AHV

? Nutanix KB Best Practices for Multicast Traffic in AHV

NEW QUESTION 10

An administrator needs to create a single chart showing multiple storage bandwidth metrics a VM is consuming.

Which type of chart should the administrator create?

- A. Metric Chart
- B. Entity Chart
- C. Hypervisor Performance Chart
- D. VM Summary Chart

Answer: B

Explanation:

Entity Charts in Nutanix Prism Central allow multiple metrics from a single entity (e.g., VM, storage container) to be displayed on a single graph.

? Option B (Entity Chart) is correct:

? Option A (Metric Chart) is incorrect:

? Option C (Hypervisor Performance Chart) is incorrect:

? Option D (VM Summary Chart) is incorrect:

References:

? Nutanix Prism Central GuideEntity vs. Metric Charts for Performance Analysis
? Nutanix KBCreating Custom Charts in Prism Central

NEW QUESTION 15

An administrator notices high CPU usage on a VM and wants to determine whether adding more vCPUs would improve performance. Which two metrics should be analyzed to make this decision? (Choose two.)

- A. VM CPU Ready Time
- B. VM CPU Usage
- C. Host CPU Usage
- D. Host Memory Swap Out Rate

Answer: AB

Explanation:

When diagnosing CPU performance issues, CPU Ready Time and CPU Usage are the key indicators of whether more vCPUs are needed.

- ? Option A (VM CPU Ready Time) is correct:
- ? Option B (VM CPU Usage) is correct:
- ? Option C (Host CPU Usage) is incorrect:
- ? Option D (Host Memory Swap Out Rate) is incorrect:

References:

- ? Nutanix Prism Central GuideAnalyzing VM CPU Performance
- ? Nutanix KBUnderstanding CPU Ready Time and VM Performance

NEW QUESTION 18

Which storage attributes do Storage Policies manage?

- A. Storage Containers and Volume Groups
- B. Replication Factor and Encryption
- C. Shares and Object Stores
- D. Data Protection and Security

Answer: B

Explanation:

Storage Policies in Nutanix allow administrators to configure data protection and performance settings at the storage container level.

- ? Replication Factor (RF) defines the number of copies of data stored across nodes for fault tolerance.
- ? Encryption ensures that data at rest is protected via Nutanix-native encryption methods.
- ? Option A (Storage Containers and Volume Groups) refers to storage organization, not policies.
- ? Option C (Shares and Object Stores) applies to file and object storage services, not VM storage policies.
- ? Option D (Data Protection and Security) is a broad term but does not define specific policy attributes.

References:

- ? Nutanix Prism Element Storage Policies and Replication Factor (RF)
- ? Nutanix Bible Storage Fabric and Data Resiliency
- ? Nutanix KB Enabling Encryption in Storage Policies

NEW QUESTION 22

Refer to the Exhibit:

Host 1 (128 GB)			
VMs	VM Memory (GB)	Utilized Memory (GB)	Unutilized Memory (GB)
VM1	64 GB	48 GB	16 GB
VM2	32 GB	20 GB	12 GB
VM3	32 GB	24 GB	8 GB
Total	128 GB	92 GB	36 GB

An administrator needs to create two virtual machines: VM4 and VM5 that leverage the memory over-commit feature. Once VM4 is created and running, the administrator notices that it uses only 28GB of RAM. What will be the maximum RAM that can be allocated to VM5 so that it can be powered on?

- A. 4GB
- B. 8GB
- C. 16GB
- D. 32GB

Answer: B

Explanation:

Understanding the Exhibit & Memory Allocation

- ? The host has 128GB of physical RAM.
- ? The current memory allocation across three VMs (VM1, VM2, VM3) is 128GB, but only 92GB is actually utilized.
- ? This means there is 36GB of unutilized memory available for allocation.

Step-by-Step Breakdown

- ? Existing Memory Usage Before Adding VM4
- ? After Creating and Running VM4

? Maximum Memory Allocation for VM5

Evaluating the Answer Choices

? (A) 4GB(Incorrect)

? (B) 8GB(Correct)

? (C) 16GB(Incorrect)

? (D) 32GB(Incorrect)

Key Concept: Nutanix Memory Overcommit

? Nutanix AHV supportsmemory overcommit, meaning VMs can be allocated more memory than physically available usingmemory ballooning and swapping.

? However,to power on VM5 without impacting performance, it must fit within the available unutilized memory, which is8GB.

NEW QUESTION 26

An administratormigrated a physical MySQL databasefrom alegacy 3-tier environment to aNutanix cluster.

After migration, the administrator finds that atpeak load, the number of IOPS is lower than expected, andlatency is higher.

Which two steps should the administrator take to improve performance? (Choose two.)

A. Ensure that theSQL data vDisks are thick provisioned.

B. Createadditional vDisks for SQL data.

C. UseLVM to stripe the SQL data across multiple vDisks.

D. Ensure that theSQL data vDisks are thin provisioned.

Answer: BC

Explanation:

For high-performance databases like MySQL, optimizing storage access is critical.

? Option B (Create additional vDisks for SQL data) is correct:

? Option C (Use LVM to stripe SQL data across multiple vDisks) is correct:

? Option A (Thick provisioned vDisks) is incorrect:

? Option D (Thin provisioned vDisks) is incorrect:

References:

? Nutanix Bible Optimizing SQL Performance on Nutanix

? Nutanix KB Best Practices for Running MySQL on Nutanix

NEW QUESTION 30

An administrator is managing a4-node clusterwithdifferent hardware generations:

? Two G5 Nodes 2 CPUs (12 cores), 1 SSD (1.92 TB), 2 HDDs (4 TB).

? Two G7 Nodes 2 CPUs (16 cores), 2 SSDs (1.92 TB), 4 HDDs (4 TB).

The cluster will bedecommissioned from productionand used forDisaster Recovery (DR) purposeswithan RPO of 1 hour.

What is the best approach when replacing G5 nodes without impacting performance?

A. New node must have at least 2 SSDs.

B. New node must be G7 or G8.

C. New node must have 2 CPUs with 12 cores.

D. New node must be hybrid.

Answer: A

Explanation:

For optimal Disaster Recovery performance, new nodes must match or exceed the storage performance of existing nodes.

? Option A (New node must have at least 2 SSDs) is correct:

? Option B is incorrect:

? Option C is incorrect:

? Option D is incorrect:

References:

? Nutanix Hardware GuideChoosing Nodes for Hybrid and DR Clusters

? Nutanix KBBalancing Storage Across Different Hardware Generations

NEW QUESTION 32

When expanding acluster, what is required toautomatically discover new nodes?

A. New nodes must have the same hypervisor version.

B. IPv6 multicast must be allowed on physical switches.

C. New nodes must have the same AOS version.

D. IPv4 multicast must be allowed on physical switches.

Answer: D

Explanation:

Nutanix uses IPv4 multicast for automatic node discovery and cluster expansion.

? Option D (IPv4 multicast must be allowed) is correct:

? Option A (Hypervisor version must match) is incorrect:

? Option B (IPv6 multicast) is incorrect:

? Option C (AOS version must match) is incorrect:

References:

? Nutanix Best Practices Cluster Expansion & Auto-Discovery

? Nutanix KB Why Nutanix Requires IPv4 Multicast for Node Discovery

NEW QUESTION 36

What is supported for creating a VM Template in Nutanix?

- A. VM is protected by Protection Domain-based DR.
- B. VM is an agent or a Prism Central VM.
- C. VM has disks located on RF2 containers.
- D. VM runs on the ESXi hypervisor.

Answer: C

Explanation:

VM templates in Nutanix are supported only when the VM's disks reside on storage containers configured with Replication Factor 2 (RF2) or higher.

? Option C (VM has disks on RF2 containers) is correct:

? Option A is incorrect:

? Option B is incorrect:

? Option D is incorrect:

References:

? Nutanix VM Management GuideCreating and Managing VM Templates

? Nutanix KBStorage Requirements for VM Templates

NEW QUESTION 37

An administrator has successfully configured Metro Availability for a Protection Domain. However, after a few days, an NCC warning is raised:

"Following VMs are accessing data from remote clusters: VM-1 from remote cluster Remote-ML"

What is the first action an administrator must take to fix the issue?

- A. Run the command: `ncli pd list metro-avail=true | egrep "Protection Domain Stretch Role" | grep "ACTIVE"`
- B. Use must-affinity rule to avoid automated VM migration to the standby datastore.
- C. Migrate the VM to its primary site and set appropriate rules for DRS and affinity.
- D. Run the command: `ncc health_checks metro_availability_checks data_locality_check --cvm_list=X.X.X.20`

Answer: C

Explanation:

Metro Availability requires that VMs always read data from their primary site to maintain optimal performance and prevent remote data access latency.

? Option C (Migrate the VM to its primary site and set appropriate rules) is correct:

? Option A is incorrect:

? Option B is incorrect:

? Option D is incorrect:

References:

? Nutanix Bible Metro Availability and Data Locality

? Nutanix Best Practices VM Affinity Rules for Metro Availability

? Nutanix KB Troubleshooting Remote Data Access in Metro Availability

NEW QUESTION 40

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