

Nutanix

Exam Questions NCP-MCI-6.10

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



NEW QUESTION 1

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 2

An administrator needs to set up a protection policy in preparation for a Disaster Recovery (DR) test.

What is the first step required to satisfy this task?

A. Install NGT (Nutanix Guest Tools) on VMs where applications are supported.

B. Create an Availability Zone between Production and DR.

C. Convert the source cluster to AHV.

D. Create a point-in-time snapshot of source VMs.

Answer: B

Explanation:

For Nutanix Disaster Recovery (DR) protection policies, the first step is to establish a connection between the Production cluster and the DR site, which is done by creating an Availability Zone (AZ) (Option B).

? Availability Zones (AZs) define remote sites for replication and are a requirement for configuring protection domains and disaster recovery plans.

? Option A (Installing NGT) is not necessary for setting up replication but is useful for application-consistent snapshots.

? Option C (Converting the source cluster to AHV) is not required, as Nutanix supports cross-hypervisor DR between ESXi and AHV.

? Option D (Creating a point-in-time snapshot) is a later step after setting up the Availability Zone and Protection Policy.

References:

? Nutanix Protection Policies and DR Documentation

? Nutanix Bible Disaster Recovery Planning

? Nutanix Support KB Configuring Availability Zones in Prism Central

NEW QUESTION 3

An administrator receives complaints about VM performance.

After reviewing the VM's CPU Ready Time data, which step should the administrator take to diagnose the issue further?

A. Check the number of vCPUs assigned to each CVM.

B. Review host CPU utilization.

C. Assess cluster SSD capacity.

D. Enable VM memory oversubscription.

Answer: B

Explanation:

CPU Ready Time indicates how long a VM waits for CPU resources due to contention.

? Option B (Review host CPU utilization) is correct:

? Option A (Check CVM vCPUs) is incorrect:

? Option C (Assess SSD capacity) is incorrect:

? Option D (Enable VM memory oversubscription) is incorrect:

References:

? Nutanix Prism Central Guide Troubleshooting VM Performance

? Nutanix KB Identifying High CPU Ready Time and Solutions

NEW QUESTION 4

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 5

How can a VM or Volume Group (VG) be associated with a Storage Policy?

- A. Assign the Storage Policy directly on the VM or VG.
- B. Assign the VM or VG directly to the Storage Policy.
- C. Migrate the VM or VG to the Storage Container assigned to the Storage Policy.
- D. Assign the VM or VG to the same Category as the Storage Policy.

Answer: D

Explanation:

Storage Policies in Nutanix are applied through Categories, allowing policy-based automation and enforcement.

- ? Option D (Assign the VM or VG to the same Category as the Storage Policy) is correct:
- ? Option A is incorrect:
- ? Option B is incorrect:
- ? Option C is incorrect:

References:

- ? Nutanix Storage Management Guide Using Categories for Policy-Based Storage Management
- ? Nutanix KB Best Practices for Applying Storage Policies to VMs

NEW QUESTION 6

An administrator has been asked to calculate baseline Capacity Runway on a newly registered AHV cluster.

The cluster has been running for 16 days, but no runway projections are displayed. Why are no Capacity Runway projections being displayed?

- A. Capacity Planning requires at least 30 days of data.
- B. Capacity Planning requires at least 21 days of data.
- C. Capacity Planning requires at least 3 months of data.
- D. Capacity Planning requires at least 6 months of data.

Answer: B

Explanation:

Nutanix Prism Central requires at least 21 days of usage data to generate accurate Capacity Runway projections.

- ? Option B (21 days) is correct:
- ? Option A (30 days) is incorrect:
- ? Option C (3 months) and Option D (6 months) are incorrect:

References:

- ? Nutanix Prism Central Guide Understanding Capacity Runway Calculations
- ? Nutanix KB Why No Capacity Runway Data is Displayed for New 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

Which update in LCM can an administrator apply on a per-node basis?

- A. AOS
- B. BMC
- C. NCC
- D. AHV

Answer: B

Explanation:

BMC (Baseboard Management Controller) updates can be applied per-node in Nutanix LCM, unlike AOS or AHV, which require cluster-wide upgrades.

- ? Option B (BMC) is correct.
- ? Option A (AOS) is incorrect.
- ? Option C (NCC) is incorrect.
- ? Option D (AHV) is incorrect.

References:

- ? Nutanix LCM User Guide Per-Node Firmware Updates
- ? Nutanix KB How to Upgrade BMC Using LCM

NEW QUESTION 10

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

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 Guide Analyzing VM CPU Performance
- ? Nutanix KB Understanding CPU Ready Time and VM Performance

NEW QUESTION 12

An administrator has configured AHV Metro Availability with Witness and is testing failover scenarios. During testing, the administrator disconnects the primary and recovery clusters but Prism Central remains connected to the recovery site. What are two expected system behaviors? (Choose two.)

- A. Guest VM I/O operations pause (freeze) until connectivity is restored.
- B. Guest VM I/O operations pause (freeze) until connectivity between Prism Central and the primary site is restored.
- C. Guest VMs failover automatically to the recovery cluster.
- D. Guest VMs continue to run on the primary cluster.

Answer: AC

Explanation:

When connectivity between Metro clusters is lost, Nutanix Metro Availability ensures data integrity using Witness for automatic failover.

? Option A (Guest VM I/O operations pause until connectivity is restored) is correct:

? Option C (Guest VMs failover automatically to the recovery cluster) is correct:

? Option B is incorrect:

? Option D is incorrect:

References:

? Nutanix Metro Availability GuideHow Witness Handles Failover Scenarios

? Nutanix KBI/O Freezing and Failover Behavior in Metro Clusters

NEW QUESTION 14

Refer to Exhibit:

Cluster Details ✕

Virtual IP / FQDN is used to access the PC VM Cluster.

Cluster Name

Unnamed

FQDN

Virtual IP

In a scale-out Prism Central deployment, what additional functionality does configuring an FQDN instead of a Virtual IP provide?

- A. Load balancing
- B. Resiliency
- C. Segmentation
- D. SSL Certificate

Answer: A

Explanation:

When using FQDN instead of a Virtual IP in a scale-out Prism Central deployment, Nutanix enables load balancing across multiple Prism Central instances.

? Option A (Load balancing) is correct because it ensures that requests are distributed among multiple Prism Central nodes, improving performance and redundancy.

? Option B (Resiliency) is incorrect because resiliency is achieved through HA and replication, not through FQDN configuration.

? Option C (Segmentation) is incorrect because network segmentation is handled at the VLAN or security policy level.

? Option D (SSL Certificate) is incorrect because SSL certificates can be applied regardless of whether FQDN or Virtual IP is used.

References:

? Nutanix Prism Central Deployment Guide

? Nutanix Best Practices for Scale-Out Prism Central

? Nutanix Support KB: Configuring FQDN for Prism Central

NEW QUESTION 15

An administrator migrated a physical MySQL database from a legacy 3-tier environment to a Nutanix cluster.

After migration, the administrator finds that at peak load, the number of IOPS is lower than expected, and latency is higher.

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

- A. Ensure that the SQL data vDisks are thick provisioned.
- B. Create additional vDisks for SQL data.

- C. Use LVM to stripe the SQL data across multiple vDisks.
- D. Ensure that the SQL 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 19

When expanding a cluster, what is required to automatically 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 24

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 Guide Creating and Managing VM Templates

? Nutanix KB Storage Requirements for VM Templates

NEW QUESTION 25

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