

Nutanix

Exam Questions NCP-MCI-6.10

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



NEW QUESTION 1

An administrator configured a remote site for Protection Domain replication, but network performance and stability are impacted. How can the remote site configuration be adjusted to fix the issue?

- A. Configure Network Address Translation (NAT) between the two Nutanix clusters.
- B. Configure the Protection Domain with many-to-many replication.
- C. Configure a Bandwidth Throttling Policy.
- D. Configure the remote Cluster VIP as a proxy.

Answer: C

Explanation:

Network performance issues during replication can be mitigated using Bandwidth Throttling to control traffic spikes.

? Option C (Configure a Bandwidth Throttling Policy) is correct:

? Option A (Configure NAT) is incorrect:

? Option B (Many-to-Many Replication) is incorrect:

? Option D (Remote Cluster VIP as Proxy) is incorrect:

References:

? Nutanix Protection Policies Guide Bandwidth Throttling for Remote Site Replication

? Nutanix KB Optimizing Network Performance for Disaster Recovery

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

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:

In a scale-out Prism Central deployment, using an FQDN (Fully Qualified Domain Name) enables load balancing across multiple Prism Central instances.

? Option A (Load balancing) is correct:

? Option B (Resiliency) is incorrect:

? Option C (Segmentation) is incorrect:

? Option D (SSL Certificate) is incorrect:

References:

? Nutanix Prism Central Guide Configuring Scale-Out Deployment

? Nutanix KB How FQDN Enhances Load Balancing in Scale-Out Prism Central

NEW QUESTION 4

An administrator has been tasked with performing firmware upgrades for all Nutanix sites.

When attempting to perform firmware upgrades via Life Cycle Manager (LCM) at a remote site with a single-node cluster, no firmware updates are listed as available. The administrator confirmed that the currently installed firmware is several revisions behind.

Why are no firmware upgrades listed in LCM for this cluster?

- A. Single-node clusters only support one-disk firmware upgrades.
- B. LCM is not supported on single-node clusters.
- C. LCM cannot perform firmware upgrades on single-node clusters.
- D. LCM does not have connectivity to the internet.

Answer: B

Explanation:

LCM (Life Cycle Manager) does not support automatic firmware upgrades for single- node clusters because firmware updates require cluster-wide operations, which are not possible with only one node.

- ? Option B (LCM is not supported on single-node clusters) is correct:
- ? Option A (Single-node clusters only support one-disk firmware upgrades) is incorrect:
- ? Option C (LCM cannot perform firmware upgrades) is incorrect:
- ? Option D (LCM lacks internet connectivity) is incorrect:

References:

- ? Nutanix LCM Guide Firmware Upgrade Considerations for Single-Node Clusters
- ? Nutanix KB Why LCM Updates Are Not Available for Single-Node Deployments

NEW QUESTION 5

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 6

An administrator is configuring Nutanix Disaster Recovery (DR) for a cross-hypervisor setup (ESXi to AHV) but finds that guest VMs do not recover properly at the DR location.

What is required for a successful cross-hypervisor DR event?

- A. Utilize delta disks.
- B. Deploy Legacy BIOS boot on hosts within the cluster.
- C. Use raw device mappings.
- D. Nutanix Guest Tools (NGT) must be installed on source guest VMs.

Answer: D

Explanation:

For cross-hypervisor DR failover (e.g., ESXi to AHV), Nutanix Guest Tools (NGT) must be installed on VMs to ensure proper configuration and recovery.

- ? Option D (NGT must be installed on source guest VMs) is correct:
- ? Option A (Utilize delta disks) is incorrect:
- ? Option B (Deploy Legacy BIOS boot) is incorrect:
- ? Option C (Use raw device mappings) is incorrect:

References:

- ? Nutanix Disaster Recovery Guide Cross-Hypervisor Failover Best Practices
- ? Nutanix KB Ensuring VM Compatibility During ESXi to AHV DR

NEW QUESTION 7

An administrator is preparing for a firmware upgrade on a host and wants to manually migrate VMs before executing the LCM upgrade. However, one VM is unable to migrate while others migrate successfully.

Which action would fix the issue?

- A. Enable Acropolis Dynamic Scheduling (ADS) at the cluster level.
- B. Update Link Layer Discovery Protocol (LLDP).
- C. Disable Agent VM within the VM configuration options.
- D. Configure backplane port groups that are assigned to the CVM.

Answer: C

Explanation:

If a VM is unable to migrate, the most likely cause is that it is an Agent VM (such as a Nutanix Witness VM or a VM with special dependencies).

- ? Option C (Disable Agent VM) is correct:
- ? Option A (Enable ADS) is incorrect:
- ? Option B (Update LLDP) is incorrect:
- ? Option D (Configure backplane port groups) is incorrect:

References:

- ? Nutanix Prism Element Guide Managing Agent VM Settings
- ? Nutanix Bible Host Maintenance and VM Live Migration
- ? Nutanix KB Troubleshooting VM Migration Failures in AHV

NEW QUESTION 8

An administrator wants to enable application discovery on a Nutanix cluster to monitor applications. A Prism Central instance is already configured with sufficient CPU and memory.

What other prerequisites must be met before enabling application discovery? (Choose two.)

- A. Sufficient Prism Central VM resources
- B. Internet connection
- C. API key and key ID
- D. Network controller is enabled

Answer: AB

Explanation:

Application discovery in Prism Central requires sufficient Prism Central resources and an active internet connection to retrieve application signatures.

? Option A (Sufficient Prism Central VM resources) is correct:

? Option B (Internet connection) is correct:

? Option C (API key and key ID) is incorrect:

? Option D (Network controller enabled) is incorrect:

References:

? Nutanix Prism Central Guide Enabling and Using Application Discovery

? Nutanix KB Requirements for Application Discovery in Prism Central

NEW QUESTION 9

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 10

A user created a report in the Intelligent Operations Analysis Dashboard but forgot to download it. However, after logging back into Prism Central, the administrator finds that the report is no longer available.

What is the most likely cause?

- A. A user with Cluster Viewer role deleted the report.
- B. The user-generated report was archived.
- C. Reports are automatically deleted after 24 hours.
- D. The report is stored in the cluster's Prism Element.

Answer: C

Explanation:

In Nutanix Prism Central, user-generated reports in Intelligent Operations are stored for a limited time and then deleted automatically.

? Option C (Reports are automatically deleted after 24 hours) is correct:

? Option A (Cluster Viewer deleted the report) is incorrect:

? Option B (Report was archived) is incorrect:

? Option D (Report stored in Prism Element) is incorrect:

References:

? Nutanix Prism Central Guide Intelligent Operations & Report Retention Policies

? Nutanix KB Why Reports in Prism Central Are Not Persisting

NEW QUESTION 10

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 11

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 15

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 Guide Entity vs. Metric Charts for Performance Analysis

? Nutanix KB Creating Custom Charts in Prism Central

NEW QUESTION 17

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 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 19

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 supports memory overcommit, meaning VMs can be allocated more memory than physically available using memory ballooning and swapping.
- ? However, to power on VM5 without impacting performance, it must fit within the available unutilized memory, which is 8GB.

NEW QUESTION 20

An administrator is configuring a replication schedule on multiple remote locations deployed using a single-node cluster. The goal is to achieve the lowest possible RPO (Recovery Point Objective).

How should the administrator configure the replication schedule?

- A. Configure NearSync replication.
- B. Configure a schedule for 16 minutes up to 59 minutes.
- C. Configure Async replication.
- D. Configure a schedule for 1 minute up to 15 minutes.

Answer: D

Explanation:

Nutanix NearSync replication provides the lowest RPO (as low as 1 minute) and is the best option for minimizing data loss in DR scenarios.

- ? Option D (Configure a schedule for 1 minute up to 15 minutes) is correct.
- ? Option A (Configure NearSync) is incorrect.
- ? Option B (16 to 59 minutes) is incorrect.
- ? Option C (Async replication) is incorrect.

References:

- ? Nutanix Protection Policies Guide NearSync vs. Async Replication
- ? Nutanix Bible RPO and RTO in Disaster Recovery
- ? Nutanix KB Configuring NearSync Replication for Single-Node Clusters

NEW QUESTION 24

An administrator needs to perform an LCM upgrade on an AHV host with GPUs. What additional step is required before upgrading the host?

- A. Create an agent VM on each host that has GPU drivers installed.
- B. Run LCM in dark site mode so it can update AHV independently.
- C. Use Direct Uploads to upload appropriate driver bundles.
- D. Update NCC to the latest version and re-run Inventory.

Answer: C

Explanation:

Upgrading an AHV host with GPUs requires that the correct GPU drivers be manually uploaded to LCM, as GPU firmware is not updated automatically.

? Option C (Use Direct Uploads to upload appropriate driver bundles) is correct:

? Option A is incorrect:

? Option B is incorrect:

? Option D is incorrect:

References:

? Nutanix LCM Guide Manually Uploading GPU Firmware Bundles

? Nutanix KB Updating AHV Hosts with GPUs

NEW QUESTION 29

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 rules 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 30

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