

# Free PDF Valid NCP-MCI-6.10 - Valid Exam Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Registration



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## Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Troubleshoot a Nutanix Multicloud Environment: This section of the exam measures the skills of Technical Support Engineers and IT Operations Specialists and covers diagnosing and resolving common issues within a Nutanix multi-cloud environment. Troubleshooting protection policies and recovery plans requires identifying network mapping failures, vNIC issues, script execution problems, and connectivity failures. Metro replication troubleshooting involves addressing naming conventions, network limitations, and replication states. Security issues in AOS and Prism Central must be resolved by managing CVM communications, security warnings, and log analysis. LCM operations require diagnosing failures in inventory updates and version upgrades. Performance troubleshooting involves analyzing logs, reading performance charts, and adjusting VM configurations to meet performance needs.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Configure Disaster Recovery and Data Protection within a Nutanix Multicloud Environment:</b> This section of the exam measures the skills of Disaster Recovery Specialists and Cloud Engineers and covers configuring protection policies and domains for data security and recovery. Candidates need to identify the right entities for protection, schedule backups, define retention policies, and set up replication to remote sites. Recovery plans must be configured and executed with proper scripting, network mapping, and failover strategies. Metro replication requires understanding failover methodologies, comparing solutions on different hypervisors, and preventing split-brain scenarios. Effective disaster recovery planning ensures minimal downtime and data integrity across environments.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Manage Clusters within a Nutanix Multicloud Environment:</b> This section of the exam measures the skills of Infrastructure Engineers and Systems Administrators and covers the administration of Nutanix clusters. Storage management includes creating, reading, updating, and deleting storage containers and volume groups. Configuring AOS and Prism Central settings involves authentication, SSL certificate management, IAM role-based access control, and configuring network segmentation. Network administration procedures focus on creating VLAN-backed subnets, virtual switches, and load-balancing policies while monitoring NIC usage. Lifecycle management includes performing hardware and software updates and maintaining firmware. Hardware maintenance involves adding or removing nodes and physical disks while ensuring proper upgrades and replacements. Intelligent operations require configuring capacity policies, discovering application relationships, and simulating scenarios to optimize performance.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Manage VMs within a Nutanix Multicloud Environment:</b> This section of the exam measures the skills of Cloud Administrators and Virtualization Engineers and covers managing virtual machines (VMs) within a Nutanix multicloud environment. It includes creating and updating VMs by determining hardware requirements, boot modes, sizing, and configuration based on application needs. Candidates must understand how to deploy VMs using templates, snapshots, and image configurations, ensuring the correct formats for importing and exporting VMs. Migration processes require knowledge of prerequisites, storage, network settings, and software compatibility. Additionally, configuring VM categories and attributes is essential for proper organization and management within the environment, ensuring alignment with labels, storage policies, and security settings.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Conduct Custom Monitoring within a Nutanix Multicloud Environment:</b> This section of the exam measures the skills of Cloud Analysts and Systems Engineers and covers custom monitoring for optimized performance management. Candidates must analyze performance charts, set retention policies, create custom service level agreements (SLAs), and manage storage based on policies. Creating reports involves identifying the required type, selecting generation frequency, determining retention properties, and customizing report formats for different monitoring needs. Effective monitoring ensures better resource utilization, system efficiency, and proactive issue resolution within the multi-cloud environment.</li> </ul>

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## Nutanix NCP-MCI-6.10 Questions Can Help you Pass Exam [2026]

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### Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q39-Q44):

#### NEW QUESTION # 39

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 Security Policies to isolate users.

- B. Create a role mapping for each team lead and assign appropriately.
- C. Create a VPC for each team lead and give them VPC Admin.
- **D. Create a project for each team lead and assign access.**

**Answer: D**

Explanation:

Nutanix Prism Central uses Role-Based Access Control (RBAC) combined with Projects to segment access to workloads.

Documentation describes Projects as:

"Projects provide a scalable method to group VMs and assign user or group permissions so that access is restricted to only the resources belonging to that project." When VMs are added to a project, Prism Central automatically handles:

- \* scoping of administrative permissions
- \* allowed actions (power, console, modify)
- \* limiting visibility only to VMs inside that project
- \* isolation between different teams or business units

Role mapping alone does not limit scope; it only assigns permissions. Without projects, users may see more VMs than intended.

VPCs relate to Flow Virtual Networking and network segmentation, not Prism RBAC or VM-level access control. Security Policies isolate network traffic, not administrative visibility.

Thus, creating a project for each team lead and assigning VM access is the most efficient and intended Nutanix mechanism.

#### NEW QUESTION # 40

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

**Answer: D**

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:
- \* It reduces unnecessary multicast traffic by ensuring that only subscribed VMs receive the packets.
- \* It is supported natively in AHV networking.
- \* Option A (LACP) is incorrect:
- \* Link Aggregation Control Protocol (LACP) improves bandwidth and redundancy but does not control multicast traffic.
- \* Option B (UDP) is incorrect:
- \* UDP (User Datagram Protocol) is a transport protocol, not a network optimization feature.
- \* Option D (Network Segmentation) is incorrect:
- \* Segmentation (VLANs, VPCs) isolates networks but does not optimize multicast traffic specifically.

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 # 41

Which task should be performed first when upgrading host memory?

- **A. Place node into the maintenance mode**
- B. Execute "shutdown -h now" from the AHV command line interface.
- C. Gracefully stop the host by using the out of band management interface.
- D. Remove node from the cluster.

**Answer: A**

Explanation:

The Nutanix ECA course provides detailed procedures for performing hardware upgrades, such as adding host memory, to ensure cluster stability and data availability. Upgrading host memory requires safely preparing the node to avoid disrupting running VMs or cluster operations.

Extract from Nutanix Enterprise Cloud Administration (ECA) Course Documents:

Module: Cluster Management, Section: Hardware Upgrades "Before performing hardware upgrades, such as adding host memory, the node must be placed into maintenance mode. This ensures that all VMs are migrated to other nodes and the host is safely isolated from cluster operations." Module: Host Maintenance, Section: Maintenance Mode "Placing a node into maintenance mode is the first step for hardware upgrades. Maintenance mode migrates all VMs to other nodes, stops the Controller VM (CVM), and prepares the host for safe shutdown or hardware changes." Explanation of Options:

A). Gracefully stop the host by using the out of band management interface This is incorrect. Stopping the host via the out-of-band management interface (e.g., IPMI or iLO) without first entering maintenance mode risks disrupting running VMs and cluster services. The ECA course warns: "Shutting down a host without maintenance mode can cause VM crashes and data unavailability, as VMs are not migrated." B). Remove node from the cluster This is incorrect. Removing a node from the cluster is a permanent action that detaches it from the cluster's metadata and storage pool, requiring re-imaging to rejoin. It is not appropriate for a temporary hardware upgrade like adding memory. The ECA course states: "Removing a node is not required for hardware upgrades and should be avoided, as it disrupts cluster configuration." C). Execute "shutdown -h now" from the AHV command line interface This is incorrect. Running shutdown -h now on the AHV host without entering maintenance mode will abruptly stop the host, potentially crashing VMs and disrupting cluster operations. The ECA course notes: "Directly shutting down a host via CLI without maintenance mode risks data loss and service disruption." D). Place node into maintenance mode This is the correct answer. Placing the node into maintenance mode is the first step for hardware upgrades, as it safely migrates all VMs to other nodes, stops the CVM, and prepares the host for shutdown or hardware changes. The ECA course emphasizes that maintenance mode ensures cluster stability during upgrades.

Supporting Extract: "To upgrade host memory, place the node into maintenance mode using Prism Element or the CLI command `ncli host maintenance_mode`. This ensures safe VM migration and host isolation." Additional Context from ECA:

Maintenance Mode Process: In Prism Element, maintenance mode can be enabled under Hardware > Host > Enter Maintenance Mode. The process automatically migrates VMs using live migration, stops the CVM, and isolates the host. For AHV, the CLI command is `ncli host maintenance_mode id=<host_id> enable=true`.

Memory Upgrade: After entering maintenance mode, the host can be safely powered off to add memory, then powered back on and exited from maintenance mode.

Supporting Reference from Web Results:

The Nutanix Bible (<https://www.nutanix.com/go/the-nutanix-bible>) confirms: "Maintenance mode is the required first step for host hardware upgrades, ensuring VMs are migrated and the node is isolated before changes like memory upgrades."

#### NEW QUESTION # 42

Per organizational requirements, an administrator has uploaded a signed SSL certificate to Prism for Common Access Card (CAC) authentication.

Once the certificate has been uploaded successfully, the certificate appears to be valid but CAC authentication is not functional.

What is a potential cause of this problem?

- A. There is no Certificate Revocation List (CRL) configured.
- B. Signature Algorithm is incorrect.
- C. Online Certificate Status Protocol (OCSP) is not enabled.
- D. RSA key size is incorrect.

**Answer: A**

#### NEW QUESTION # 43

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

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

**Answer: C**

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:
- \* When an FQDN is used, Nutanix automatically distributes traffic between multiple Prism Central nodes, improving performance.
- \* Option B (Resiliency) is incorrect:
- \* Resiliency is achieved through cluster redundancy, not by using an FQDN.
- \* Option C (Segmentation) is incorrect:
- \* Segmentation relates to network isolation rather than FQDN-based load balancing.
- \* Option D (SSL Certificate) is incorrect:
- \* SSL certificates can be applied to both FQDN and Virtual IP configurations.

References:

- \* Nutanix Prism Central Guide #Configuring Scale-Out Deployment
- \* Nutanix KB #How FQDN Enhances Load Balancing in Scale-Out Prism Central

## NEW QUESTION # 44

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