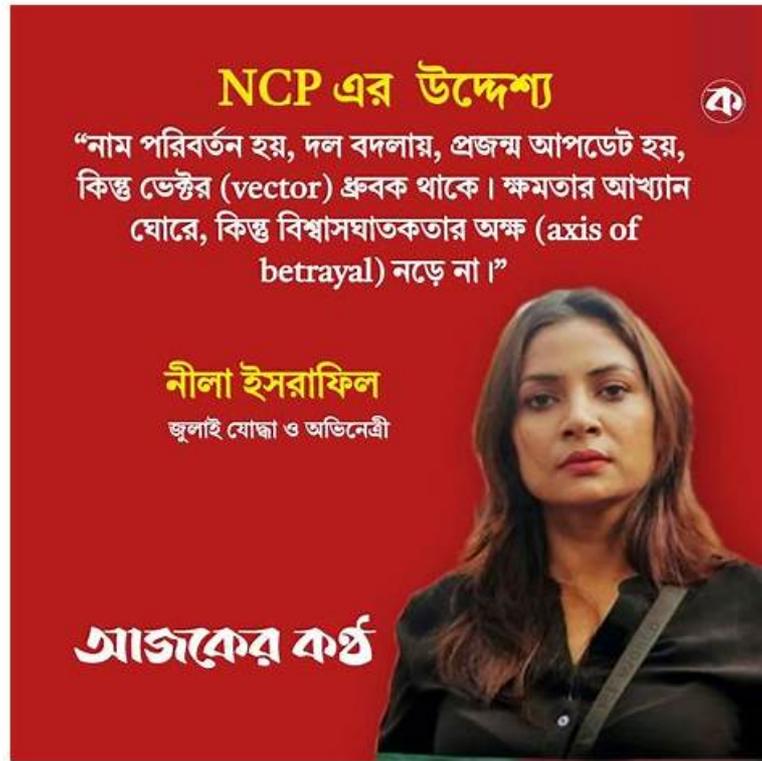


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### Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
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Topic 1	<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 2	<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 3	<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 4	<ul style="list-style-type: none"> <li>• <b>Troubleshoot a Nutanix Multicloud Environment:</b> 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 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>

## Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q64-Q69):

### NEW QUESTION # 64

In an RF2 cluster, what is the minimum number of nodes required to allow a host removal?

- A. 0
- B. 1
- C. 2
- D. 3

**Answer: C**

Explanation:

In a Nutanix cluster, Replication Factor 2 (RF2) means that each piece of data has two copies: a primary and a replica. To safely remove a node while ensuring data redundancy and cluster health, the system must have enough nodes to maintain the RF2 protection and complete the removal.

From the Nutanix Enterprise Cloud Administration (ECA) documentation:

"The minimum number of nodes required for a safe host removal in an RF2 cluster is four. This ensures that even after removing a node, there are enough remaining nodes to continue hosting the primary and replica data copies, meeting the RF2 requirement." The logic is:

\* In a 3-node RF2 cluster, there isn't enough redundancy to safely remove a node without impacting data availability.

\* A 4-node RF2 cluster allows safe removal of one node while still ensuring two copies of all data remain.

Thus, the minimum number of nodes required for a safe host removal in an RF2 cluster is 4

### NEW QUESTION # 65

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 Security Policies to isolate users.
- **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 # 66

Which feature deploys a temporary VM that allows an administrator to log in and apply OS patches to a VM template?

- A. Create VM from Template
- B. Update Configuration
- C. Update Guest OS
- **D. Complete Guest OS Update**

**Answer: D**

### NEW QUESTION # 67

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

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

**Answer: C**

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:

\* Nutanix applies Storage Policies based on VM Categories, enabling flexibility in policy enforcement.

\* Option A is incorrect:

\* Storage Policies are not directly assigned at the VM or VG level—they apply through Categories.

\* Option B is incorrect:

\* Policies must be assigned to Categories, not directly to individual VMs/VGs.

\* Option C is incorrect:

\* Migrating to a storage container does not automatically apply a Storage Policy.

References:

\* Nutanix Storage Management Guide#Using Categories for Policy-Based Storage Management

\* Nutanix KB#Best Practices for Applying Storage Policies to VMs

### NEW QUESTION # 68

An administrator is tasked with protection of a business critical application. The application is running on a Linux VM and is using a custom DB that require application consistent snapshots for data integrity.

An administrator has written a pre\_freeze and post\_thaw scripts and placed them under /usr/local/sbin/.

During protection domain scheduled run an alert is generated:

Execution of the PostThaw Script Failed

Which two resolution steps could an administrator conduct to fix the issue? (Choose two.)

- A. Ensure NGT service is up and running.
- B. Execute scripts manually and ensure they succeed
- C. Ensure that scripts have nutanix user ownership and admin access.
- D. Review the NGT logs under /usr/local/sbin/post\_thaw.

**Answer: A,B**

Explanation:

To resolve issues with application-consistent snapshots (script execution failures), two critical actions are needed:

NGT Service Status:From the ECA materials:

"The Nutanix Guest Tools (NGT) service is responsible for executing pre-freeze and post-thaw scripts for application-consistent snapshots. If NGT is not running, these scripts will not execute." Script Validation:

"Before relying on scheduled snapshot runs, execute pre-freeze and post-thaw scripts manually to ensure they complete successfully.

This helps to rule out script logic or permission issues." Ownership or log review of the script path itself (A and B) are secondary and typically not root-cause resolution steps.

### NEW QUESTION # 69

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