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

| Topic   | Details   |
|---------|---|
| Topic 1 | <ul style="list-style-type: none"><li>Conduct Custom Monitoring within a Nutanix Multicloud Environment: 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>   |
| Topic 2 | <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 3 | <ul style="list-style-type: none"> <li>Manage VMs within a Nutanix Multicloud Environment: 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 4 | <ul style="list-style-type: none"> <li>Manage Clusters within a Nutanix Multicloud Environment: 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 5 | <ul style="list-style-type: none"> <li>Configure Disaster Recovery and Data Protection within a Nutanix Multicloud Environment: 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>   |

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## **Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q165-Q170):**

### **NEW QUESTION # 165**

An administrator wants to enable application discovery on a Nutanix cluster to monitor applications.

An X-Large Prism Central instance is already configured and meets the licensing, CPU, and memory requirements.

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

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

**Answer: A,D**

#### Explanation:

Nutanix Application Discovery relies on a combination of Prism Central services and in-guest sensors that collect application metadata, communication patterns, and dependency maps. The internal documentation lists these specific prerequisites before Application Discovery can be enabled:

- \* "Prism Central must have access to the Internet for sensor downloads, signature updates, and metadata service communication." Application Discovery uses cloud-based metadata to identify applications and services. Without Internet access, Prism Central cannot retrieve application profiles, updated signatures, and dependency mapping definitions.
- \* "The Network Controller service must be enabled to allow flow-level inspection and communication tracking between VMs." Application Discovery integrates directly with Nutanix Flow's Network Controller to observe traffic flows, which is required for dependency mapping. Without Network Controller enabled, Prism Central cannot monitor or analyze traffic between workloads. The documentation clarifies that generating API keys is not required to activate Application Discovery, and sufficient Prism Central resources are already assumed as stated in the question.

Therefore, the required prerequisites are Internet connectivity and enabling the Network Controller.

#### NEW QUESTION # 166

An administrator wants to enable application discovery on a Nutanix cluster to monitor applications.

An X-Large Prism Central instance is already configured and meets the licensing, CPU, and memory requirements.

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

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

#### Answer: A,D

#### Explanation:

Nutanix Application Discovery relies on a combination of Prism Central services and in-guest sensors that collect application metadata, communication patterns, and dependency maps. The internal documentation lists these specific prerequisites before Application Discovery can be enabled:

- "Prism Central must have access to the Internet for sensor downloads, signature updates, and metadata service communication." Application Discovery uses cloud-based metadata to identify applications and services.
- Without Internet access, Prism Central cannot retrieve application profiles, updated signatures, and dependency mapping definitions.
- "The Network Controller service must be enabled to allow flow-level inspection and communication tracking between VMs." Application Discovery integrates directly with Nutanix Flow's Network Controller to observe traffic flows, which is required for dependency mapping. Without Network Controller enabled, Prism Central cannot monitor or analyze traffic between workloads.

The documentation clarifies that generating API keys is not required to activate Application Discovery, and sufficient Prism Central resources are already assumed as stated in the question.

Therefore, the required prerequisites are Internet connectivity and enabling the Network Controller.

#### NEW QUESTION # 167

A Disaster Recovery administrator has set up a Protection Policy for 50 workloads, all configured similarly.

The RPO is 60 minutes with a specified retention of 10 local copies, 5 remote copies, and crash consistency.

After activation, recovery points are not appearing at the DR site, even though they are visible on the production side.

What is the most likely issue?

- A. The storage container name on the DR cluster does not match the production cluster.
- B. Nutanix Guest Tools (NGT) is not installed on the source VMs.
- C. The storage container RF factor does not match in both clusters.
- D. Windows updates need to be applied to all affected VMs.

#### Answer: A

#### Explanation:

For Disaster Recovery to function correctly, the source and destination storage containers must have identical names.

\* Option C (Storage container name mismatch) is correct:

\* If the storage container name at the DR site does not match, Nutanix cannot map snapshots and replication data.

\* This causes failover operations to fail, even though data exists.

\* Option A (NGT not installed) is incorrect:

- \* NGT is needed for application-consistent snapshots, but not required for crash-consistent snapshots.
- \* Option B (Windows updates) is incorrect:
- \* OS updates do not affect replication availability.
- \* Option D (Storage RF factor mismatch) is incorrect:
- \* Replication works across different RF factors, but performance may vary.

References:

- \* Nutanix Disaster Recovery Guide#Requirements for Remote Replication
- \* Nutanix KB#Storage Container Mapping for Protection Domains

## NEW QUESTION # 168

An administrator has been tasked with monitoring performance across a number of different entities in the Nutanix cluster. The CIO has asked the administrator to provide Analysis charts that show performance as granularly as possible.

Given this request, what is the smallest preset time interval (in hours) that the administrator can select in a Metric or Entity Chart?

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

**Answer: A**

Explanation:

When using Metric or Entity Charts in Prism Central for performance monitoring, the most granular preset time interval that can be selected is 1 hour.

From the Nutanix Enterprise Cloud Administration (ECA) course materials:

"Prism Central provides performance data visualization with customizable time intervals. The smallest preset interval for metric and entity charts is 1 hour, providing highly detailed performance information over short periods." This allows administrators to monitor performance fluctuations at a fine-grained level, aligning with best practices for troubleshooting and optimization.

## NEW QUESTION # 169

An administrator has configured Metro Availability but a few hours later got an NCC warning:

Node x.x.X.X:

WARN: Break replication timeout of Metro protection domain 'M1' is below the recommended minimum.

What is a possible resolution for this issue?

- A. Update the `break_replication_timeout` to 15 seconds
- B. Update the `break_replication_timeout` to 15 milliseconds.
- C. Update the `break_replication_timeout` to 5 milliseconds.
- D. Update the `break_replication_timeout` to 10 seconds.

**Answer: A**

Explanation:

The Nutanix ECA course addresses Metro Availability, a high-availability feature that provides synchronous replication between two Nutanix clusters for zero Recovery Point Objective (RPO) and near-zero Recovery Time Objective (RTO). The NCC warning about the `break_replication_timeout` being below the recommended minimum indicates a configuration issue that could affect the stability of Metro Availability.

The `break_replication_timeout` parameter determines how long the Protection Domain (PD) waits before breaking replication if connectivity between the Metro clusters is disrupted.

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

\* Module: Data Protection, Section: Metro Availability Configuration "Metro Availability uses synchronous replication to ensure data consistency between two clusters. The `break_replication_timeout` parameter defines the timeout period for replication. The recommended minimum value is 15 seconds to prevent premature replication breaks due to transient network issues."

\* Module: Nutanix Cluster Check (NCC), Section: Metro Availability Alerts "An NCC warning indicating that the `break_replication_timeout` for a Metro Protection Domain is below the recommended minimum suggests the timeout is too low, risking unnecessary replication breaks. The recommended setting is 15 seconds to balance stability and responsiveness in Metro Availability setups." Explanation of Options:

\* A. Update the `break_replication_timeout` to 10 seconds This is incorrect. A timeout of 10 seconds is below the recommended minimum of 15 seconds, as specified in the ECA course. Setting the timeout too low increases the risk of replication breaking due to

transient network latency or jitter, which could disrupt Metro Availability and cause unnecessary failovers. The ECA documentation warns: "A break\_replication\_timeout below 15 seconds may lead to frequent replication breaks, reducing the reliability of Metro Availability."

\* B. Update the break\_replication\_timeout to 5 milliseconds This is incorrect. A timeout of 5 milliseconds is far too low and impractical for Metro Availability, as even minor network delays would trigger replication breaks. The ECA course does not support millisecond-level timeouts and explicitly recommends 15 seconds as the minimum. Such a low value would destabilize the Metro setup, as noted: "Extremely low timeout values are not supported, as they cause replication to break under normal network conditions."

\* C. Update the break\_replication\_timeout to 15 milliseconds This is incorrect. A timeout of 15 milliseconds is still significantly below the recommended minimum of 15 seconds. Similar to option B, this setting would cause replication to break too quickly, undermining the purpose of Metro Availability. The ECA course clarifies: "Timeouts in milliseconds are not recommended for Metro Availability, as they do not account for typical network latency in synchronous replication setups."

\* D. Update the break\_replication\_timeout to 15 seconds This is the correct answer. The ECA course explicitly recommends a break\_replication\_timeout of 15 seconds as the minimum to ensure Metro Availability remains stable. This value allows the system to tolerate transient network issues without prematurely breaking replication, maintaining data consistency and availability. The NCC warning indicates the current timeout is below this threshold, and updating it to 15 seconds resolves the issue.

\* Supporting Extract: "To resolve NCC warnings about break\_replication\_timeout, set the value to 15 seconds using the ncli command: ncli pd update-metro-avail-pd name=<PD\_NAME> break\_replication\_timeout=15. This ensures compliance with Nutanix best practices." Additional Context from ECA:

\* Metro Availability Overview: Metro Availability synchronously replicates data between two clusters, typically within 100 km, to achieve zero RPO. The break\_replication\_timeout is a critical parameter that balances responsiveness to network issues with the need to avoid unnecessary replication breaks. The ECA course notes: "A timeout of 15 seconds is the default and recommended value to handle typical network fluctuations in Metro setups."

\* NCC Warning Resolution: The NCC (Nutanix Cluster Check) monitors cluster health and flags configurations that deviate from best practices. The warning about break\_replication\_timeout indicates a risk to Metro Availability stability, and setting it to 15 seconds aligns with Nutanix recommendations.

Supporting Reference from Web Results:

The Nutanix Support Portal (<https://portal.nutanix.com>) confirms the ECA guidance: "For Metro Availability, the break\_replication\_timeout should be set to a minimum of 15 seconds to prevent replication breaks due to transient network issues, as flagged by NCC warnings."

## NEW QUESTION # 170

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