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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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.

Topic 2	<ul style="list-style-type: none"> • 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.
Topic 3	<ul style="list-style-type: none"> • 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.
Topic 4	<ul style="list-style-type: none"> • 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.
Topic 5	<ul style="list-style-type: none"> • 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.

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q21-Q26):

NEW QUESTION # 21

An administrator is protecting an application and its data stored on Volume Groups using Protection Domains. During failover tests, all application VMs restore successfully, but the application data is completely missing. How can the Protection Domain configuration be adjusted to avoid this issue in the future? (Choose two.)

- A. Manually add Volume Groups to Protected Entities.
- B. Place Volume Groups in a separate Protection Domain.
- C. Use application-consistent snapshots.
- D. Select the "Auto protect related entities" checkbox.

Answer: A,D

Explanation:

Protection Domains (PDs) in Nutanix ensure that entire applications and their associated data are protected during failover. However, Volume Groups (VGs) are not automatically included unless explicitly configured.

- * Option A (Select "Auto protect related entities") is correct:
 - * This setting ensures that associated Volume Groups, networks, and other dependencies are included in the Protection Domain automatically.
 - * Without enabling this, only the VM itself would be protected, leading to missing application data upon failover.
 - * Option B (Manually add Volume Groups to Protected Entities) is correct:
 - * If "Auto protect related entities" is not enabled, the administrator must manually add Volume Groups to the Protection Domain.
 - * This ensures that both VMs and their attached Volume Groups are replicated and recovered together.
 - * Option C (Place Volume Groups in a separate Protection Domain) is incorrect:
 - * Separating Volume Groups into a different PD does not guarantee they failover together with VMs.
 - * It is best practice to keep related VMs and Volume Groups in the same PD.
 - * Option D (Use application-consistent snapshots) is incorrect:
 - * While application-consistent snapshots improve data integrity, they do not fix missing Volume Groups in failover scenarios.
- References:
- * Nutanix Disaster Recovery Guide#Protection Domain Configuration and Volume Groups
 - * Nutanix KB#Ensuring Volume Groups Are Included in Disaster Recovery Failovers

NEW QUESTION # 22

An administrator receives an alert in Prism stating:

"Storage container <container_name> on cluster <cluster_name> will run out of storage resources in approximately 1 day."

However, the cluster has plenty of available space remaining.

What configuration setting is causing the container to run out of space while the cluster has space remaining?

- A. Compression is set too low.
- **B. Reserved Capacity is set too high.**
- C. Advertised Capacity is set too low.
- D. Replication Factor is set too high.

Answer: B

Explanation:

Reserved Capacity settings define how much storage is exclusively allocated for a specific container.

- * Option B (Reserved Capacity is too high) is correct:
- * If too much space is reserved for a container, it can report "out of space" while the cluster still has free capacity.
- * Options A, C, and D are incorrect:
- * Advertised Capacity, Compression, and RF settings do not directly cause storage exhaustion unless misconfigured with Reserved Capacity.

References:

Nutanix Storage Best Practices#Configuring Reserved and Advertised Capacity Nutanix KB#Troubleshooting Storage Container Out-of-Space Alerts

NEW QUESTION # 23

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

Answer: C

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 # 24

Which Nutanix tool provides real-time insights and anomaly detection for a Nutanix environment?

- A. Insights
- B. NCC (Nutanix Cluster Check)
- C. LCM (Life Cycle Manager)
- D. Prism Central

Answer: A

NEW QUESTION # 25

An administrator is planning for an upcoming maintenance window. The administrator would like to minimize the chance of an upgrade failure during the maintenance window to ensure the updates will complete without issue.

What action should the administrator take to reduce the risk of any potential failures during an upgrade?

- A. Reboot each host one-at-a-time to ensure the reboots are successful.

- B. Reboot each CVM one-at-a-time to ensure the reboots are successful.
- **C. Run an Upgrade Precheck from LCM.**
- D. Upgrade AOS to the latest version from LCM.

Answer: C

NEW QUESTION # 26

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