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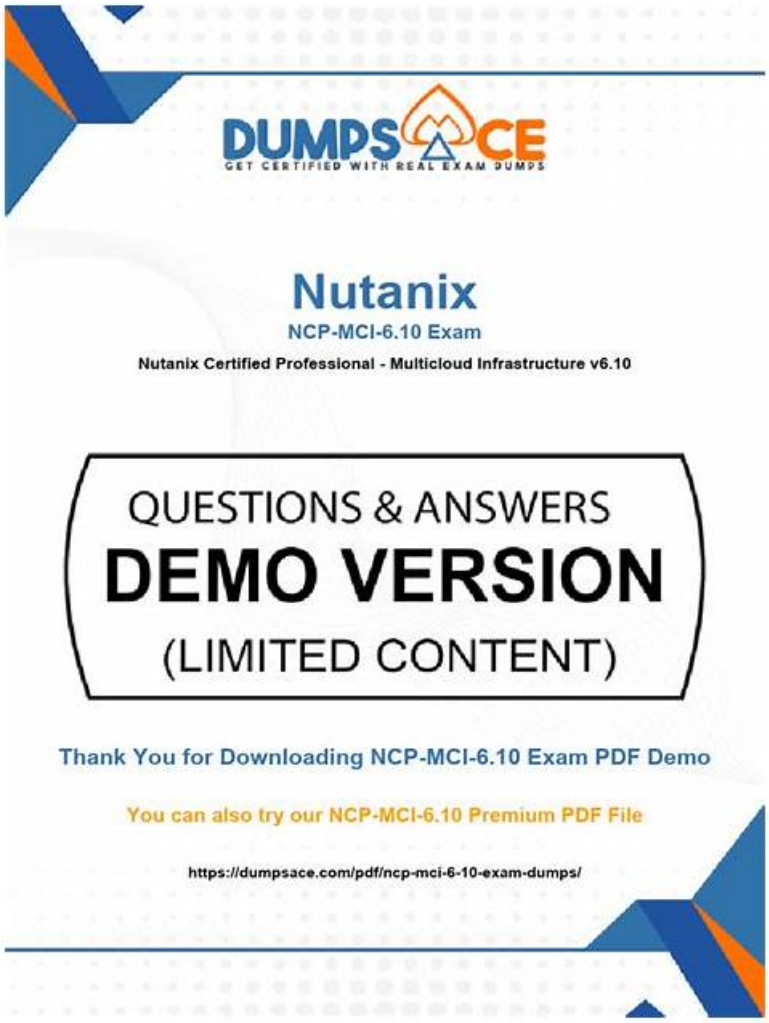

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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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.
Topic 3	• 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 4	• 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 5	• 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.

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

Sample Questions (Q101-Q106):

NEW QUESTION # 101
Which Nutanix feature helps optimize storage space by removing duplicate blocks of data?

- A. Deduplication
- B. Compression
- C. Data Locality
- D. Replication

Answer: A

NEW QUESTION # 102
In Prism Element, how many nodes can be placed into maintenance mode at one time on 12-node FT2 cluster?

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

Answer: B

Explanation:
In a 12-node FT2 cluster, onlyonenode can be placed into maintenance mode at a time. This ensures that the cluster maintains data redundancy and protection (FT2 indicates 2-failure tolerance).
From theNutanix Enterprise Cloud Administration (ECA)course materials:
"For FT2 clusters, a maximum of one node can be placed in maintenance mode at a time to ensure the cluster' s ability to tolerate failures and maintain quorum."

NEW QUESTION # 103
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 10 seconds.
- B. Update the break_replication_timeout to 5 milliseconds.
- C. Update the break_replication_timeout to 15 milliseconds.
- D. Update the break_replication_timeout to 15 seconds

Answer: D

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 thebreak_replication_timeoutbeing below the recommended minimum indicates a configuration issue that could affect the stability of Metro Availability.
Thebreak_replication_timeoutparameter 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 secondsThis 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 millisecondsThis 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 millisecondsThis 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 secondsThis is the correct answer. The ECA course explicitly recommends abreak_replication_timeoutof 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. Thebreak_replication_timeoutis 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 aboutbreak_replication_timeoutindicates 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 # 104
An administrator wants tolive-migrate a vGPU-enabled VMfrom one host to another within the same cluster.
What requirements must be met before initiating the migration?

- A. The target host has sufficient resources to support the VM.
- B. The host affinity for the VM must be set to a specific host.
- C. The vGPU profile needs to be changed.
- D. The VM must be configured as an agent VM.

Answer: A

Explanation:
vGPU-enabled VMs can only be migrated if the destination host has a compatible GPU and sufficient resources.
* Option A (Target host must have sufficient resources) is correct:
* The target hostmust have the same GPU model and enough available resourcesto support the VM.
* vGPUcannot be live-migrated across incompatible hardware.
* Option B (vGPU profile change) is incorrect:
* The profiledoes not need to be changedas long as the target host has the sameconfiguration.
* Option C (Agent VM required) is incorrect:
* Agent VMs are not necessaryfor vGPU migration.
* Option D (Host affinity) is incorrect:
* Host affinitylimits movement, butis not a prerequisite for migration.
References:
* Nutanix AHV Best Practices #Migrating vGPU-Enabled VMs
* Nutanix KB #Requirements for Live-Migrating vGPU VMs

NEW QUESTION # 105
An administrator is preparing for afirmware upgradeon a host and wants to manuallymigrate VMs before executing the LCM upgrade. However,one VM is unable to migratewhile others migrate successfully.

Which action would fix the issue?

- A. EnableAcropolis Dynamic Scheduling (ADS)at the cluster level.
- B. DisableAgent VMwithin the VM configuration options.
- C. UpdateLink Layer Discovery Protocol (LLDP).
- D. Configurebackplane port groupsthat are assigned to the CVM.

Answer: B

NEW QUESTION # 106

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