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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 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.

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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q85-Q90):

NEW QUESTION # 85

An administrator needs to set up a protection policy in preparation for a Disaster Recovery (DR) test. What is the first step required to satisfy this task?

- A. Convert the source cluster to AHV.
- B. Install NGT (Nutanix Guest Tools) on VMs where applications are supported.
- C. Create a point-in-time snapshot of source VMs.
- **D. Create an Availability Zone between Production and DR.**

Answer: D

Explanation:

For Nutanix Disaster Recovery (DR) protection policies, the first step is to establish a connection between the Production cluster and the DR site, which is done by creating an Availability Zone (AZ) (Option B).

* Availability Zones (AZs) define remote sites for replication and are a requirement for configuring protection domains and disaster recovery plans.

* Option A (Installing NGT) is not necessary for setting up replication but is useful for application-consistent snapshots.

* Option C (Converting the source cluster to AHV) is not required, as Nutanix supports cross-hypervisor DR between ESXi and AHV.

* Option D (Creating a point-in-time snapshot) is a later step after setting up the Availability Zone and Protection Policy.

References:

* Nutanix Protection Policies and DR Documentation

* Nutanix Bible #Disaster Recovery Planning

* Nutanix Support KB #Configuring Availability Zones in Prism Central

NEW QUESTION # 86

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 seconds**
- D. Update the break_replication_timeout to 15 milliseconds.

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 # 87

An administrator is trying to delete a protected snapshot but is unable to do so.
What is the most likely cause?

- A. There is an approval policy that was denied.
- B. Ransomware has encrypted the snapshot.
- C. There is an active recovery occurring at that time.
- D. The snapshot has been corrupted.

Answer: C

Explanation:

Snapshots that are part of an active recovery operation cannot be deleted until the process is completed or manually canceled.

* Option A (Active recovery in progress) is correct:

* Nutanix does not allow deletion of snapshots if they are being used in an ongoing recovery process.

* The administrator should verify whether the snapshot is currently part of a Protection Domain or Disaster Recovery (DR) plan.

* Option B (Ransomware encryption) is incorrect:

* Nutanix snapshots are immutable by default and cannot be encrypted by external threats.

* Option C (Approval policy denial) is incorrect:

* Snapshot deletions do not require manual approval, unless controlled by an external workflow system.

* Option D (Snapshot corruption) is incorrect:

* Nutanix uses checksums to prevent corruption, so snapshots cannot be silently damaged.

References:

* Nutanix Protection Policies #Snapshot Retention and Deletion

* Nutanix Bible #Backup & Disaster Recovery Mechanisms

* Nutanix KB #How to Delete a Snapshot Used in Recovery Plans

NEW QUESTION # 88

What is the best way to automate the deployment of 100 Linux VMs with similar configurations but different hostnames, local configurations, and install packages?

- A. VM template configuration
- B. SysPrep Configuration
- C. Manual configuration
- D. Cloud-Init configuration

Answer: D

Explanation:

To automate the deployment of a large number of Linux VMs (such as 100), each with similar base configurations but unique hostnames, local configurations, and additional package installations, Cloud-Init is the most appropriate approach. Cloud-Init is a widely supported industry-standard tool for automating the initialization and configuration of Linux instances at first boot.

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

"Cloud-Init is the recommended method for configuring Linux virtual machines during deployment in Prism Central. It allows administrators to inject configuration scripts and user data that customize the VM at boot time, including hostname, network settings, user creation, and package installations." Specifically:

"Using Cloud-Init, you can create a template or base image for the Linux VMs and then customize each VM deployment by passing individualized configuration parameters, ensuring that while the base configuration remains consistent, each VM has unique settings such as hostname or installed software." This method is far superior to manual configuration, which is impractical for 100 VMs, and it's not suitable to use SysPrep (which is for Windows-based customization). VM templates alone would provide only the base image; they do not address unique per-VM settings.

Therefore, Cloud-Init ensures a repeatable, scalable, and fully automated deployment process that aligns with the Nutanix best practices for deploying large numbers of Linux VMs with unique configurations.

NEW QUESTION # 89

An administrator would like to plan for new project-related growth.

New project workload requirements have been included for a cluster named ClusterXYZ:

2 Medium Sized SQL Servers

10 VMs with 16Gb RAM, 4 vCPU, 100GB Storage

Which two additional information items should be added to the capacity planning scenario to provide a proper capacity runway expectation? (Choose two.)

- A. Storage compression ratio(s) for new workload
- B. Change in Demand percentage
- C. Date(s) workload(s) will be added
- D. Existing cluster hardware specifications

Answer: A,C

NEW QUESTION # 90

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