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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.
Topic 4	<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 5	<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.

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q145-Q150):

NEW QUESTION # 145

Which task should be performed first when upgrading host memory?

- A. Execute "shutdown -h now" from the AHV command line interface.
- **B. Place node into the maintenance mode**
- C. Remove node from the cluster.
- D. Gracefully stop the host by using the out of band management interface.

Answer: B

Explanation:

The Nutanix ECA course provides detailed procedures for performing hardware upgrades, such as adding host memory, to ensure cluster stability and data availability. Upgrading host memory requires safely preparing the node to avoid disrupting running VMs or cluster operations.

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

Module: Cluster Management, Section: Hardware Upgrades "Before performing hardware upgrades, such as adding host memory, the node must be placed into maintenance mode. This ensures that all VMs are migrated to other nodes and the host is safely isolated from cluster operations." Module: Host Maintenance, Section: Maintenance Mode "Placing a node into maintenance mode is the first step for hardware upgrades. Maintenance mode migrates all VMs to other nodes, stops the Controller VM (CVM), and prepares the host for safe shutdown or hardware changes." Explanation of Options:

A). Gracefully stop the host by using the out of band management interface This is incorrect. Stopping the host via the out-of-band management interface (e.g., IPMI or iLO) without first entering maintenance mode risks disrupting running VMs and cluster services. The ECA course warns: "Shutting down a host without maintenance mode can cause VM crashes and data unavailability, as VMs are not migrated." B). Remove node from the cluster This is incorrect. Removing a node from the cluster is a permanent action that detaches it from the cluster's metadata and storage pool, requiring re-imaging to rejoin. It is not appropriate for a temporary hardware upgrade like adding memory. The ECA course states: "Removing a node is not required for hardware upgrades and should be avoided, as it disrupts cluster configuration." C). Execute "shutdown -h now" from the AHV command line interface This is incorrect. Running shutdown -h now on the AHV host without entering maintenance mode will abruptly stop the host, potentially crashing VMs and disrupting cluster operations. The ECA course notes: "Directly shutting down a host via CLI without maintenance mode risks data loss and service disruption." D). Place node into maintenance mode This is the correct answer. Placing the node into maintenance mode is the first step for hardware upgrades, as it safely migrates all VMs to other nodes, stops the CVM, and prepares the host for shutdown or hardware changes. The ECA course emphasizes that maintenance mode ensures cluster stability during upgrades.

Supporting Extract: "To upgrade host memory, place the node into maintenance mode using Prism Element or the CLI command `ncli host maintenance_mode`. This ensures safe VM migration and host isolation." Additional Context from ECA:

Maintenance Mode Process: In Prism Element, maintenance mode can be enabled under Hardware > Host > Enter Maintenance Mode. The process automatically migrates VMs using live migration, stops the CVM, and isolates the host. For AHV, the CLI command is `ncli host maintenance_mode id=<host_id> enable=true`.

Memory Upgrade: After entering maintenance mode, the host can be safely powered off to add memory, then powered back on and exited from maintenance mode.

Supporting Reference from Web Results:

The Nutanix Bible (<https://www.nutanix.com/go/the-nutanix-bible>) confirms: "Maintenance mode is the required first step for host hardware upgrades, ensuring VMs are migrated and the node is isolated before changes like memory upgrades."

NEW QUESTION # 146

An administrator is managing two clusters registered to two different Prism Central instances.

After configuring a Protection Policy for synchronous replication and verifying data replication, the administrator would like to create a new Recovery Plan with automatic failover. However, the administrator finds that the Recovery Plan workflow offers only manual failure execution mode.

What configuration must be fixed to execute the failover automatically?

- A. Protection Policy must also have a local schedule.
- B. Modify firewall to open 2030, 2036, 2073, 2090 ports on every local and remote CVM5.
- **C. Primary Location and Recovery Location must be in the same AZ.**
- D. Verify protected VM are not already part of another Recovery Plan.

Answer: C

NEW QUESTION # 147

Which tool in Nutanix can be used to gather logs for troubleshooting and support?

- A. Nutanix Move
- B. X-Ray
- C. NCC (Nutanix Cluster Check)
- D. LCM (Life Cycle Manager)

Answer: C

NEW QUESTION # 148

When expanding a cluster, what is required to automatically discover new nodes?

- A. IPv6 multicast must be allowed on physical switches.
- B. New nodes must have the same hypervisor version.
- C. IPv4 multicast must be allowed on physical switches.
- D. New nodes must have the same AOS version.

Answer: C

Explanation:

Nutanix uses IPv4 multicast for automatic node discovery and cluster expansion.

- * Option D (IPv4 multicast must be allowed) is correct:
- * When adding new nodes, the Nutanix Cluster automatically detects them using IPv4 multicast traffic.
- * If multicast is blocked at the switch level, the new nodes will not be discovered automatically.
- * Option A (Hypervisor version must match) is incorrect:
- * While the hypervisor version should be compatible, it does not impact node discovery.
- * Option B (IPv6 multicast) is incorrect:
- * Nutanix does not use IPv6 multicast for cluster discovery.
- * Option C (AOS version must match) is incorrect:
- * Nodes can have slightly different AOS versions, but discovery still works as long as they are compatible.

References:

- * Nutanix Best Practices #Cluster Expansion & Auto-Discovery
- * Nutanix KB #Why Nutanix Requires IPv4 Multicast for Node Discovery

NEW QUESTION # 149

An administrator is executing a storage performance test between two Microsoft Windows VMs. The first VM was deployed by using a template, while the second one was created from scratch.

Results show that VMs have very different metrics when using the same performance test. The first VM reaches 8000 IOPS, while the second struggles reaching 500/800 IOPS. Currently the AHV cluster is not under pressure.

How can the administrator determine why these results were produced?

- A. Verify both VMs have installed Nutanix Guest Tools.
- B. Enable AHV Turbo on the second VM.
- C. Compare vDisk bus type between VMs.
- D. Check number of VCPUs assigned to VMs

Answer: C

NEW QUESTION # 150

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