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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	• 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 4	• 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 5	• 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.

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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q92-Q97):

NEW QUESTION # 92
Which task should be performed first when upgrading host memory?

- A. Execute "shutdown -h now" from the AHV command line interface.
- B. Remove node from the cluster.

- C. Place node into the maintenance mode
- D. Gracefully stop the host by using the out of band management interface.

Answer: C

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 interfaceThis 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 clusterThis 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 interfaceThis 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 modeThis 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 underHardware > 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 # 93
An administrator started anLCM upgrade of the AHV hostsbut realized that theupgrade would exceed the planned maintenance window.
Which feature should be leveraged to prevent additional updates from occurring?

- A. RestartGenesison the cluster to restart the LCM service.
- B. Cancel the LCM tasks via theErgon command line (ecli).
- C. Use theStop Update feature in LCM.
- D. Run thelcm_task_cleanup.pyscript.

Answer: C

Explanation:
When performing aLife Cycle Manager (LCM) upgrade, therecommended way to stop the process is to use the "Stop Update" feature in LCM (Option D).
* Option A (Cancel via Ergon ecli)is not a recommended approach since manually interfering with running tasks can cause inconsistencies.
* Option B (lcm_task_cleanup.py script)is used for post-upgrade cleanup but does not stop ongoing updates.
* Option C (Restarting Genesis)does not stop an LCM upgrade and can cause instability.

References:
* Nutanix Life Cycle Manager (LCM) User Guide
* Nutanix KB:Best Practices for Stopping and Restarting LCM Tasks
* Nutanix Prism Central #LCM Feature Documentation

NEW QUESTION # 94

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. Cloud-Init configuration
- D. Manual configuration

Answer: C

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-Initis 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 theNutanix 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-Initensures 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 # 95

An administrator wants toensure that user VMs on AHV hostscan take advantage ofbandwidth beyond a single adapter in a bond. Which uplink Bond Type should the administrator configure to accomplish this?

- A. No Uplink Bond
- B. Active-Active with MAC pinning
- C. Active-Active
- D. Active-Backup

Answer: C

Explanation:
Active-Active bonding allows multiple network interfaces to be used simultaneously, improving bandwidth and redundancy.
* Option B (Active-Active) is correct:
* This mode enablesload balancing across all available adapters, providinghigher throughput and fault tolerance.
* Option A (No Uplink Bond) is incorrect:
* Without a bond, VMscannot benefit from multiple adapters.
* Option C (Active-Active with MAC pinning) is incorrect:
* MAC pinningbinds traffic to a single NIC, limiting bandwidth distribution.
* Option D (Active-Backup) is incorrect:
* This modeonly provides failover, not increased bandwidth.
References:
* Nutanix AHV Networking Guide #Bonding Modes and Load Balancing
* Nutanix KB #Optimizing Network Throughput in AHV

NEW QUESTION # 96

Which storage attributes do Storage Policies manage?

- A. Replication Factor and Encryption
- B. Storage Containers and Volume Groups
- C. Data Protection and Security
- D. Shares and Object Stores

Answer: A

Explanation:
Storage Policies in Nutanix allow administrators to configuredata protection and performance settingsat the storage container level.
* Replication Factor (RF)definesthe number of copies of datastored across nodes for fault tolerance.
* Encryptionensures thatdata at rest is protectedvia Nutanix-native encryption methods.
* Option A (Storage Containers and Volume Groups)refers tostorage organization, not policies.
* Option C (Shares and Object Stores)applies tofile and object storage services, not VM storage policies.
* Option D (Data Protection and Security)is a broad term but does not definespecific policy attributes.
References:
* Nutanix Prism Element #Storage Policies and Replication Factor (RF)
* Nutanix Bible #Storage Fabric and Data Resiliency
* Nutanix KB #Enabling Encryption in Storage Policies

NEW QUESTION # 97

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