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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"> 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"> • 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 4	<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 5	<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.

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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q62-Q67):

NEW QUESTION # 62

An administrator wants to ensure that user VMs on AHV hosts can take advantage of bandwidth available beyond a single adapter in a bond.

Which uplink Bond Type should the administrator configure?

- A. No uplink bond
- B. Active-backup
- C. Active-Active
- D. Active-Active with MAC pinning

Answer: C

Explanation:

Nutanix AHV networking supports multiple bond types that determine how traffic is distributed across physical NICs. The detailed

guidance in the AHV networking section states:

"Active-Active bonding provides load distribution of outbound traffic across all interfaces in the bond, allowing aggregate throughput beyond a single physical adapter." Active-backup keeps only one NIC active at a time and provides no throughput gain. Active-Active with MAC pinning distributes VMs across NICs but does not aggregate the total throughput for a single VM and is typically used with switch-independent designs.

Because the requirement is to "take advantage of bandwidth beyond a single adapter," only the standard Active-Active bond type satisfies this, as it truly aggregates available bandwidth.

Therefore, the correct bond type is Active-Active.

NEW QUESTION # 63

An administrator notices high CPU usage on a VM and wants to determine whether adding more vCPUs would improve performance. Which two metrics should be analyzed to make this decision? (Choose two.)

- A. VM CPU Ready Time
- B. Host Memory Swap Out Rate
- C. VM CPU Usage
- D. Host CPU Usage

Answer: A,C

Explanation:

When diagnosing CPU performance issues, CPU Ready Time and CPU Usage are the key indicators of whether more vCPUs are needed.

* Option A (VM CPU Ready Time) is correct:

* High CPU Ready Time means the VM is waiting for CPU resources, indicating CPU contention.

* Option B (VM CPU Usage) is correct:

* If CPU usage is consistently high, adding more vCPUs may improve performance.

* Option C (Host CPU Usage) is incorrect:

* Host-wide CPU usage does not indicate whether a specific VM needs more vCPUs.

* Option D (Host Memory Swap Out Rate) is incorrect:

* Memory swapping affects RAM performance, not CPU allocation.

References:

* Nutanix Prism Central Guide #Analyzing VM CPU Performance

* Nutanix KB #Understanding CPU Ready Time and VM Performance

NEW QUESTION # 64

If an administrator creates a report with no retention policy configured, how many instances of the report are retained by default?

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

Answer: C

Explanation:

By default, Nutanix Prism Central retains the last 10 instances of a report if no retention policy is configured.

Option B (10) is correct:

Nutanix stores up to 10 reports, after which older reports are automatically deleted.

Options A (5), C (15), and D (20) are incorrect:

While retention policies can be customized, the default setting is 10 reports.

References:

Nutanix Prism Central Guide #Report Generation and Retention Policies

Nutanix KB #How Reports Are Stored and Managed in Prism Central

NEW QUESTION # 65

An administrator started an LCM upgrade of the AHV hosts but realized that the upgrade would exceed the planned maintenance

window.

Which feature should be leveraged to prevent additional updates from occurring?

- A. Restart the cluster to restart the LCM service.
- B. Cancel the LCM tasks via the `eccli` command line.
- **C. Use the Stop Update feature in LCM.**
- D. Run the `lcm_task_cleanup.py` script.

Answer: C

Explanation:

When performing a Life Cycle Manager (LCM) upgrade, the recommended way to stop the process is to use the "Stop Update" feature in LCM (Option D).

* Option A (Cancel via `eccli`) 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 # 66

After upgrading Prism Central from PC2022.1 to PC2024.1, an administrator is unable to log in with their IAM domain account. What is the first troubleshooting step the administrator should take?

- A. Validate the trusted signing certificate of the organization.
- B. Ensure port 9441 is open in the firewall.
- **C. Log in with a local admin account.**
- D. Ping the Domain Controller from the CVM.

Answer: C

Explanation:

After a Prism Central upgrade, IAM authentication settings may require reconfiguration.

* Option D (Log in with a local admin account) is correct:

* If IAM authentication fails, the local admin account must be used to check domain settings.

* Option A (Ping the Domain Controller) is incorrect:

* Network connectivity is important, but the issue is likely related to IAM settings, not network reachability.

* Option B (Check firewall port 9441) is incorrect:

* Port 9441 is used for SSO authentication, but port issues usually result in login delays, not complete failures.

* Option C (Validate signing certificate) is incorrect:

* While certificates can cause issues, local admin login should always work.

References:

* Nutanix KB #Troubleshooting IAM Login Issues After a Prism Central Upgrade

* Nutanix Documentation #Managing User Authentication and IAM Integration

NEW QUESTION # 67

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