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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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"> 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"> 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.

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q170-Q175):

NEW QUESTION # 170

An administrator started an LCM upgrade of the AHV hosts and realized that the upgrades will continue beyond their planned maintenance window.

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

- A. Restart genesis on the cluster to restart the LCM service

- B. Use the Stop Update feature in LCM
- C. Cancel the LCM tasks via the Ergon command line (ecli)
- D. Run the .py script

Answer: B

Explanation:

Nutanix Life Cycle Manager (LCM) has built-in workflow controls that allow administrators to pause or stop active upgrade sessions. The documentation states:

"Administrators can use the Stop Update option in the LCM UI to halt further job progression. This safely stops the upgrade pipeline without disrupting already-applied updates." More internal behavior details:

- * Stop Update immediately prevents LCM from starting additional node or component upgrades.
- * It safely terminates queue execution while maintaining cluster consistency.
- * It does not require command-line interaction or service restarts.

Using .py scripts is not recommended and is reserved for engineering workflows. Restarting Genesis or canceling tasks via ecli may interrupt LCM activities but do not cleanly stop the scheduled upgrade workflow.

The supported and correct control method is the built-in Stop Update button.

NEW QUESTION # 171

An administrator is experiencing a storage performance problem on a single Microsoft Windows 2019 VM with the following configuration:

- * 1 vCPU
- * 8 GB RAM
- * VirtIO SCSI Controller
- * Two virtual disks (100 GB and 250 GB)
- * VirtIO Fast Ethernet NIC

The AHV cluster is healthy, and other Windows VMs are performing much better.

Which configuration should be reviewed to enhance performance for the VM?

- A. Add a second virtual storage controller (vSCSI).
- B. Increase VM number of processors (vCPUs).
- C. Enable Balance TCP on bridge0 (br0).
- D. Increase Controller VM (CVM) resources.

Answer: B

Explanation:

Nutanix performance troubleshooting guidelines emphasize the importance of adequate vCPU resources when diagnosing single-VM performance issues. The documentation states that "under-provisioned CPU is a primary cause of perceived storage latency and throughput limitations, as storage I/O processing and VirtIO- SCSI operations depend heavily on VM compute resources." Running a Windows Server VM with only one vCPU significantly constrains its ability to queue and process disk I/O, handle interrupts, and run kernel-level services. This is especially true when multiple disks are attached. Adding a second controller does not solve underlying CPU bottlenecks. Adjusting br0 TCP settings is not applicable to storage. Increasing CVM resources is unnecessary because the problem is isolated to a single VM while the cluster and other VMs perform normally.

Therefore, increasing vCPU allocation is the required corrective action.

NEW QUESTION # 172

An administrator receives an alert in Prism stating:

"Storage container <container_name> on cluster <cluster_name> will run out of storage resources in approximately 1 day."

However, the cluster has plenty of available space remaining.

What configuration setting is causing the container to run out of space while the cluster has space remaining?

- A. Replication Factor is set too high.
- B. Reserved Capacity is set too high.
- C. Advertised Capacity is set too low.
- D. Compression is set too low.

Answer: B

Explanation:

Reserved Capacity settings define how much storage is exclusively allocated for a specific container.

* Option B (Reserved Capacity is too high) is correct:

* If too much space is reserved for a container, it can report "out of space" while the cluster still has free capacity.

* Options A, C, and D are incorrect:

* Advertised Capacity, Compression, and RF settings do not directly cause storage exhaustion unless misconfigured with Reserved Capacity.

References:

* Nutanix Storage Best Practices#Configuring Reserved and Advertised Capacity

* Nutanix KB#Troubleshooting Storage Container Out-of-Space Alerts

NEW QUESTION # 173

Which Nutanix tool provides real-time insights and anomaly detection for a Nutanix environment?

- A. LCM (Life Cycle Manager)
- B. **Insights**
- C. Prism Central
- D. NCC (Nutanix Cluster Check)

Answer: B

NEW QUESTION # 174

An administrator is configuring a protection domain for business critical applications, including SQL, Oracle, and Exchange. The administrator needs to evaluate the requirements and limitations for application-consistent snapshots.

What action should the administrator take while configuring application-consistent snapshots?

- A. **Configure one consistency group for all VMs comprising an App.**
- B. Configure one consistency group for each VM.
- C. Select application consistent snapshot checkbox in consistency group settings only.
- D. Ensure that Windows VMs have in-guest mounted VHDX disks.

Answer: A

Explanation:

When configuring application-consistent snapshots in a Nutanix protection domain for applications such as SQL, Oracle, and Exchange, it is critical to group all related VMs in the same consistency group within the protection domain. This ensures that the snapshot captures a consistent state of the entire application stack.

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

"A consistency group ensures that snapshots across multiple VMs are taken at the same time, maintaining application consistency for distributed applications. This is especially important for multi-tiered applications like SQL, Oracle, and Exchange, where data integrity depends on coordinated snapshot creation." Additionally:

"For application-consistent snapshots, leverage guest tools or volume shadow copy services (VSS) in Windows to quiesce applications, and configure the consistency group to include all relevant VMs." By creating one consistency group for all VMs comprising an application, the administrator ensures that snapshots represent a consistent state across the application components.

NEW QUESTION # 175

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