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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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"> • 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.

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q61-Q66):

NEW QUESTION # 61

An administrator observes an alert in Prism for a hybrid SSD/HDD cluster:

"Storage Pool SSD utilization consistently above 75%."

What is the potential impact of this condition?

- A. The cluster is unable to sustain an SSD disk failure.
- B. The cluster may be nearly out of storage for metadata.
- C. The cluster is at risk of entering a read-only state.
- **D. Average I/O latency in the cluster may increase.**

Answer: D

Explanation:

High SSD utilization in a hybrid cluster can lead to increased I/O latency as new writes may spill over to HDDs, reducing overall performance.

* Option D (Average I/O latency in the cluster may increase) is correct:

* If SSD usage is above 75%, data tiering shifts to slower HDDs, increasing latency.

- * Option A is incorrect:
- * SSD failures are managed via redundancy policies (RF2/RF3), and high utilization does not impact failure handling.
- * Option B is incorrect:
- * Metadata is stored separately, and high SSD usage does not mean metadata is at risk.
- * Option C is incorrect:
- * Clusters do not go into read-only mode due to high SSD utilization—they simply experience performance degradation.

References:

Nutanix Storage Performance Guide#SSD Tiering and Performance Management Nutanix KB#Managing High SSD Utilization in Hybrid Clusters

NEW QUESTION # 62

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

Answer: C

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 # 63

Refer to Exhibit:

□ In a scale-out Prism Central deployment, what additional functionality does configuring an FQDN instead of a Virtual IP provide?

- A. SSL Certificate
- B. Segmentation
- C. Load balancing
- D. Resiliency

Answer: C

Explanation:

When using FQDN instead of a Virtual IP in a scale-out Prism Central deployment, Nutanix enables load balancing across multiple Prism Central instances.

* Option A (Load balancing) is correct because it ensures that requests are distributed among multiple Prism Central nodes, improving performance and redundancy.

* Option B (Resiliency) is incorrect because resiliency is achieved through HA and replication, not through FQDN configuration.

* Option C (Segmentation) is incorrect because network segmentation is handled at the VLAN or security policy level.

* Option D (SSL Certificate) is incorrect because SSL certificates can be applied regardless of whether FQDN or Virtual IP is used.

References:

Nutanix Prism Central Deployment Guide

Nutanix Best Practices for Scale-Out Prism Central

Nutanix Support KB: Configuring FQDN for Prism Central

NEW QUESTION # 64

Due to application requirements, an administrator needs to modify an AHV VM in order to support a large number of distinct, concurrent connections. The VM has the following configuration:

* VCPUs: 4

* RAM: 20 GB

Operating System: Microsoft Windows Server 2022

Which modification can the administrator make to improve network performance for network I/O-intensive applications running on this VM?

- A. Enabling AHV Turbo Technology
- **B. Enabling RSS Virtio-Net Multi-Queue**
- C. Adding more VCPUs
- D. Adding more RAM

Answer: B

NEW QUESTION # 65

An administrator is responsible for resource planning and needs to plan for resiliency of a 10-node RF3 cluster. The cluster has 100TB of storage.

How should the administrator plan for capacity in the event of future failures?

- **A. Set Reserve Capacity for Failure to Auto Detect.**
- B. Set Reserve Storage Capacity (%) to 20.
- C. Set Reserve Memory Capacity (%) to 20.
- D. Set Reserve Capacity for Failure to None.

Answer: A

Explanation:

RF3 (Replication Factor 3) clusters require sufficient reserved capacity to tolerate failures without data loss.

* Option C (Set Reserve Capacity for Failure to Auto Detect) is correct:

* Auto Detect dynamically calculates the necessary reserved space based on cluster size and RF settings.

* It ensures that enough storage remains available in case of a node failure.

* Option A (Set Reserve Storage Capacity to 20%) is incorrect:

* The required storage reservation depends on the number of nodes and RF level, not a fixed percentage.

* Option B (Set Reserve Capacity for Failure to None) is incorrect:

* Without reserved capacity, a node failure could lead to data unavailability.

* Option D (Set Reserve Memory Capacity to 20%) is incorrect:

* This setting applies to RAM, not storage resiliency.

References:

* Nutanix Bible #Understanding Replication Factor (RF) and Failure Planning

* Nutanix Prism Element Guide #Configuring Reserve Capacity for Cluster Resiliency

* Nutanix KB #How to Plan Capacity for RF3 Clusters

NEW QUESTION # 66

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