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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">• 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 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 4	<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 5	<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.

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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q49-Q54):

NEW QUESTION # 49

What feature does Nutanix provide to enable asynchronous replication for disaster recovery?

- A. Snapshots
- **B. Protection Domains**
- C. Prism Element
- D. Metro Availability

Answer: B

NEW QUESTION # 50

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. Increase Controller VM (CVM) resources.
- **B. Increase VM number of processors (vCPUs).**
- C. Enable Balance TCP on bridge0 (br0).

- D. Add a second virtual storage controller (vSCSI).

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 # 51

What is the main function of NearSync Replication in Nutanix?

- A. Provides synchronous data replication with zero RPO
- **B. Replicates data with an RPO of less than 1 minute**
- C. Backs up VM snapshots to external cloud storage
- D. Migrates workloads between clusters automatically

Answer: B

NEW QUESTION # 52

What is supported for creating a VM Template in Nutanix?

- A. VM is an agent or a Prism Central VM.
- B. VM runs on the ESXi hypervisor.
- C. VM is protected by Protection Domain-based DR.
- **D. VM has disks located on RF2 containers.**

Answer: D

Explanation:

VM templates in Nutanix are supported only when the VM's disks reside on storage containers configured with Replication Factor 2 (RF2) or higher.

- * Option C (VM has disks on RF2 containers) is correct:
- * VM templates require a minimum RF2 for fault tolerance.
- * RF1 containers do not meet Nutanix best practices for VM templates.
- * Option A is incorrect:
- * VMs protected by Protection Domains can be cloned, but this is different from creating a VM template.
- * Option B is incorrect:
- * Agent VMs (e.g., Witness VMs) or Prism Central cannot be used as VM templates.
- * Option D is incorrect:
- * Nutanix VM templates are natively supported on AHV, not ESXi.

References:

- * Nutanix VM Management Guide#Creating and Managing VM Templates
- * Nutanix KB#Storage Requirements for VM Templates

NEW QUESTION # 53

A company is evaluating Nutanix Disaster Recovery (DR) to protect multiple business-critical applications. Some applications are built using a 3-tier architecture and have interdependencies. After failover, the VM's static IP address is retained, but DNS configuration is lost. How should an administrator proceed to resolve this issue?

- A. Install Network Manager command-line tool (nmcli) in the protected Windows VMs.
- **B. Create custom in-guest scripts to preserve the statically assigned DNS IP addresses.**

- Answer: B**

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