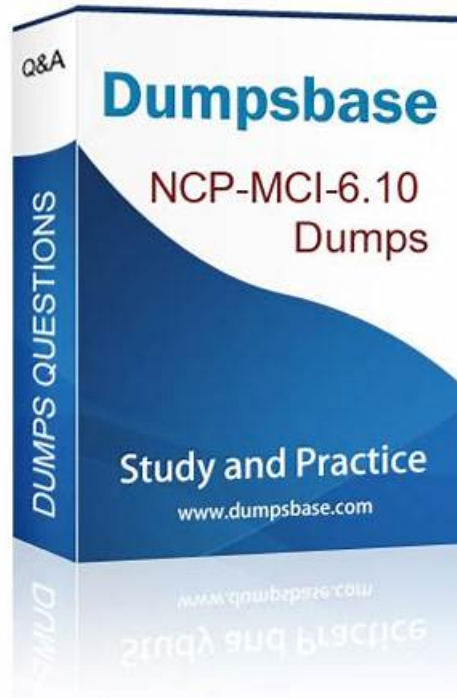


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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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 4	• 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	• 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.

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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q45-Q50):

NEW QUESTION # 45

In an RF2 cluster, what is the minimum number of nodes required to allow a host removal?

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

Answer: A

Explanation:

In a Nutanix cluster, Replication Factor 2 (RF2) means that each piece of data has two copies: a primary and a replica. To safely remove a node while ensuring data redundancy and cluster health, the system must have enough nodes to maintain the RF2 protection and complete the removal.

From the Nutanix Enterprise Cloud Administration (ECA) documentation:

"The minimum number of nodes required for a safe host removal in an RF2 cluster is four. This ensures that even after removing a node, there are enough remaining nodes to continue hosting the primary and replica data copies, meeting the RF2 requirement." The logic is:

* In a 3-node RF2 cluster, there isn't enough redundancy to safely remove a node without impacting data availability.

* A 4-node RF2 cluster allows safe removal of one node while still ensuring two copies of all data remain.

Thus, the minimum number of nodes required for a safe host removal in an RF2 cluster is 4

NEW QUESTION # 46

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. SysPrep Configuration
- B. Cloud-Init configuration
- C. VM template configuration
- D. Manual configuration

Answer: B

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-Init is 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 the Nutanix 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-Init ensures 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 # 47

An administrator needs to create a single chart showing multiple storage bandwidth metrics a VM is consuming. Which type of chart should the administrator create?

- A. Metric Chart
- B. VM Summary Chart
- C. Hypervisor Performance Chart
- D. Entity Chart

Answer: D

Explanation:

Entity Charts in Nutanix Prism Central allow multiple metrics from a single entity (e.g., VM, storage container) to be displayed on a

single graph.

* Option B (Entity Chart) is correct:

* This allows the administrator to track multiple performance metrics (e.g., read/write bandwidth, IOPS) for a specific VM.

* Option A (Metric Chart) is incorrect:

* Metric Charts track a single metric across multiple entities, which does not meet the requirement of displaying multiple metrics for a single VM.

* Option C (Hypervisor Performance Chart) is incorrect:

* Hypervisor Performance Chart tracks host-level metrics, not VM-specific bandwidth metrics.

* Option D (VM Summary Chart) is incorrect:

* VM Summary Charts only provide an overview and do not support custom multi-metric tracking.

References:

Nutanix Prism Central Guide#Entity vs. Metric Charts for Performance Analysis
Nutanix KB#Creating Custom Charts in Prism Central

NEW QUESTION # 48

An administrator is experiencing storage performance issues on a Windows Server 2019 VM with the following configuration:

* vCPU: 1

* VRAM: 8 GB

* vSCSI: VirtIO SCSI Controller

* vDisk: 2 (100 GB, 250 GB)

* vNIC: VirtIO Fast Ethernet

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

Which configuration change should be reviewed to enhance VM performance?

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

Answer: C

Explanation:

A single vCPU is likely causing a bottleneck, limiting the VM's ability to process I/O requests efficiently.

* Option D (Increase the VM's number of vCPUs) is correct:

* Windows requires sufficient CPU resources to handle disk and network operations.

* Adding more vCPUs allows the VM to process more I/O operations simultaneously, improving performance.

* Option A is incorrect:

* Additional vSCSI controllers are only useful for very high disk I/O workloads.

* Option B is incorrect:

* Balance-TCP applies to network traffic, not storage performance.

* Option C is incorrect:

* CVM resources do not directly affect individual VM performance.

References:

* Nutanix AHV Performance Tuning Guide

* Nutanix KB#Optimizing Windows VM Performance on AHV

NEW QUESTION # 49

A Disaster Recovery administrator has setup a Protection Policy for 50 workloads - all configured in a similar fashion in terms of OS, storage, network, and performance. The RPO is 60 minutes with a specified retention of 10 copies local, 5 copies remote, and crash consistency.

After configuring the Protection Policy and activating it, the administrator has noticed that recovery points are not showing up in DR. Yet, everything within the Protection Policy looks correct and recovery points are showing up on production side.

What is the most likely issue?

- A. Nutanix NGT is not installed on the source VMs.
- B. The storage container name of the protected VMs is not the same as the DR cluster storage container.
- C. Windows updates need to be run on all the affected VMs.
- **D. The storage container RF factor of the protected VMs is not the same as the RF factor in the DR cluster container.**

Answer: D

Explanation:

In Nutanix Protection Domain-based replication, both the source and destination storage containers must have the same Replication Factor (RF) to ensure consistent data protection and replication. This is a key requirement for the data's protection and integrity.

From the Nutanix ECAdocumentation:

"Replication and recovery require that the source and destination containers have the same RF setting (either RF2 or RF3). If the RF does not match, replication and recovery points will not be generated in the DR site." The other options:

* A (NGT): NGT is not required for crash-consistent protection.

* C (Windows updates): Updates are not directly relevant to replication consistency.

* D (container name): Names can differ; what matters is the container's RF setting.

NEW QUESTION # 50

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