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## Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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.</li> </ul>

## Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q43-Q48):

### NEW QUESTION # 43

An administrator has been tasked with developing a Prism Central Recovery Plan for 50 workloads that will be assigned new IP addresses and will need to utilize a new DNS server upon instantiation of workloads in the Disaster Recovery (DR) location. What is the best way to accomplish this?

- A. Update DNS settings on production VMs prior to execution of Recovery Plan.
- B. Install Nutanix Guest Tools, this will allow Re-IP and automatically assign updated DNS server(s).
- **C. Enable scripting within Recovery Sequence & utilize custom script per VM.**
- D. Utilize recovery Plan to bring VMs online at DR and then manually login to each VM and update IP /DNS.

**Answer: C**

Explanation:

For workloads requiring new IP addresses and DNS server settings during DR recovery, using custom scripting within the Recovery Plan is the recommended and supported method.

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

"Recovery Plans support scripting within the Recovery Sequence to enable administrators to perform post-recovery customization tasks, such as updating IP addresses, configuring DNS, or applying application-specific settings."

"This scripting capability provides a flexible, automated approach to ensure that VMs are correctly reconfigured to operate within the DR environment's network and DNS settings." This avoids the need for manual reconfiguration post-recovery or adjusting settings in production prior to failover.

**NEW QUESTION # 44**

An administrator needs to modify an AHV VM to support a large number of concurrent network connections.

The VM has:

- \* 4 vCPUs
- \* 20 GB RAM
- \* OS: Microsoft Windows Server 2022

Which modification can improve network performance for network I/O-intensive applications?

- A. Add more vCPUs.
- B. Enable AHV Turbo Technology.
- C. Add more RAM.
- **D. Enable RSS VirtIO-Net Multi-Queue.**

**Answer: D**

Explanation:

Receive Side Scaling (RSS) VirtIO-Net Multi-Queue improves network performance by distributing network processing across multiple CPU cores.

- \* Option C (Enable RSS VirtIO-Net Multi-Queue) is correct:
  - This setting reduces CPU bottlenecks by allowing multiple queues to handle network packets.
  - It is essential for high-throughput network applications.
- \* Option A (Add more vCPUs) is incorrect:
  - CPU resources are important, but without enabling RSS, additional vCPUs will not optimize network traffic distribution.
- \* Option B (Enable AHV Turbo Technology) is incorrect:
  - AHV Turbo improves disk I/O, not network I/O.
- \* Option D (Add more RAM) is incorrect:
  - RAM does not directly impact network performance.

References:

Nutanix AHV Best Practices Guide #Optimizing Network Performance with RSS Multi-Queue Nutanix KB #Enabling Multi-Queue for High-Performance Applications

**NEW QUESTION # 45**

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. Increase Controller VM (CVM) resources.
- C. Enable Balance-TCP on bridge (br0).
- D. Increase the VM's number of vCPUs.

**Answer: D**

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 # 46**

An administrator wants to clean up inactive VMs using VM Efficiency in Nutanix.

The business requires that VMs must be inactive for 120 days before deletion.

A Playbook was created to delete Dead and Zombie VMs with a 99-day wait period after they are marked inactive.

How long will have passed before these VMs are deleted? (Choose two.)

- A. For Dead VMs, the wait before deletion is 120 days.
- B. For Dead VMs, the wait before deletion is 129 days.
- C. For Zombie VMs, the wait before deletion is 120 days.
- D. For Zombie VMs, the wait before deletion is 129 days.

**Answer: B,D**

Explanation:

Dead VMs and Zombie VMs are different classifications of inactive VMs in Nutanix, and their deletion timelines depend on Playbook configuration.

\* Dead VMs# Considered inactive after 30 days, then must wait 99 more days before deletion.

\* Total time:  $30 + 99 = 129$  days.

\* (Option C is correct).

\* Zombie VMs# Considered inactive after 30 days, then must wait 99 more days before deletion.

\* Total time:  $30 + 99 = 129$  days.

\* (Option B is correct).

References:

\* Nutanix Prism Central Guide#Using VM Efficiency to Manage Inactive VMs

\* Nutanix KB#Configuring Playbooks for Automatic VM Cleanup

**NEW QUESTION # 47**

A company has custom applications storing data on Volume Groups (VGs). The data and application VMs must maintain integrity in case of a cluster failure and require the lowest possible RPO.

An administrator is evaluating Nutanix DR options.

How should the administrator achieve this goal?

- A. Configure Metro AHV using protection policies and recovery plans, use PC as a Witness.
- B. Configure Synchronous replication using protection policies and recovery plans.
- C. Configure Synchronous replication using protection policies and recovery plans. Place VMs and VGs in the same consistency group.
- D. Configure NearSync replication using protection domains. Place VMs and VGs in the same consistency group.

## Answer: C

Explanation:

The requirement states:

- \* Custom apps use Volume Groups
- \* VM + VG must remain consistent together
- \* Lowest possible RPO is required (RPO # 0)
- \* Must survive cluster failure

Nutanix data protection documentation clearly states:

"Synchronous replication provides an RPO of zero by ensuring every write is committed on both sites before acknowledgement."

Additionally:

"When protecting application VMs using Volume Groups, both the VM and the Volume Group must be placed in the same Consistency Group to ensure write-order fidelity and to preserve database or application integrity during failover." This is critical because Volume Groups operate at the block layer, and placing them in separate groups breaks atomic write-order correctness.

Option analysis:

- A). Metro AHV provides HA-style zero RPO but is not the required mechanism here because the question specifically references protection policies and VGs, which Metro does not orchestrate in the same way.
- B). Synchronous replication alone is not sufficient unless VMs and VGs are inside the same consistency group.
- C). This is the correct and complete solution: synchronous replication + consistency grouping ensures RPO0 and atomic updates.
- D). NearSync has RPO 1-15 minutes, not the lowest possible RPO.

Therefore, placing both VMs and VGs in the same consistency group under Synchronous Replication is the correct method.

## NEW QUESTION # 48

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