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Nutanix NCP-MCI-6.10 Exam Syllabus Topics:

Topic	Details

Topic 1	<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 2	<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 3	<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 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"> • 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.

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Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) Sample Questions (Q143-Q148):

NEW QUESTION # 143

A cluster has an RF3 storage container with many VMs. Before the cluster runs out of space, the administrator has created a new RF2 storage container and would like to live migrate the vDisks.

Which check should be done before performing vDisk migration?

- A. Verify Multichannel Support is enabled.
- B. Validate network latency is below 5 milliseconds.
- C. Remove VMs from Protection Domains or Protection Policies.
- D. Ensure storage optimization options match between storage containers

Answer: D

NEW QUESTION # 144

After adding new workloads, the Overall Runway is now below 365 days, but the scenario still shows the cluster is in good shape. Why?

- A. Because the Target is 1 month.
- B. Because new workloads are sustainable.
- C. Because Storage Runway is still good.
- D. Because there are recommended resources.

Answer: A

Explanation:

A cluster runway below 365 days does not necessarily indicate an issue if Intelligent Operations determines that workloads are sustainable.

Option B (Because new workloads are sustainable) is correct:

Nutanix analyzes resource trends and marks clusters as healthy if new workloads are within projected capacity.

Option A (Storage Runway is still good) is incorrect:

Storage is one component, but CPU and memory also affect runway calculations.

Option C (Recommended resources) is incorrect:

Recommendations help optimize capacity, but do not define cluster health.

Option D (Target is 1 month) is incorrect:

The scenario's target window does not impact the actual runway calculation.

References:

Nutanix Prism Central Guide #Capacity Planning & Runway Analysis

Nutanix KB #Understanding Capacity Runway and Workload Sustainability

NEW QUESTION # 145

An administrator configured a remote site for Protection Domain replication, but network performance and stability are impacted.

How can the remote site configuration be adjusted to fix the issue?

- A. Configure a Bandwidth Throttling Policy.
- B. Configure the remote Cluster VIP as a proxy.
- C. Configure the Protection Domain with many-to-many replication.
- D. Configure Network Address Translation (NAT) between the two Nutanix clusters.

Answer: A

NEW QUESTION # 146

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

- A. SSL Certificate
- B. Resiliency

- C. Load balancing
- D. Segmentation

Answer: C

Explanation:

Scale-out Prism Central deployments consist of multiple nodes running the Prism Central service. Nutanix documentation emphasizes that:

"When deploying multi-node Prism Central, an FQDN backed by DNS can provide request distribution across all Prism Central nodes, enabling load balancing and increased concurrency." A Virtual IP in contrast only directs traffic to a single active Prism Central node. Internal behavior notes:

* "A VIP is not active-active; it designates one node as primary for all inbound requests."

* "Using an FQDN with DNS round-robin or an external load balancer allows the cluster to distribute workload across all PC nodes." The FQDN allows:

* distributing API/UI traffic across multiple Prism Central nodes

* improving performance under heavy load

* enabling parallel query handling

* avoiding bottlenecks on the primary node

SSL certificates apply to either VIP or FQDN. Segmentation and resiliency are unrelated to FQDN usage.

Thus, the correct answer is Load Balancing.

NEW QUESTION # 147

Which feature deploys a temporary VM to allow an administrator to log in and apply OS patches to a VM template?

- A. Update Guest OS
- B. Complete Guest OS Update
- C. Create VM from Template
- D. Update Configuration

Answer: B

Explanation:

Nutanix describes a special process for updating golden images or templates without modifying the original source object directly. The documentation states:

"Complete Guest OS Update creates a temporary, cloned instance of the template, boots it, and allows administrators to patch or update the operating system. Once updates are applied, the system recomposes the template with the modifications." This process ensures that templates remain clean and version-controlled while still allowing regular OS patching operations. Other options such as Create VM from Template merely instantiate running VMs and do not update the template source. Update Guest OS and Update Configuration refer to VM-level settings but do not create a temporary working copy for template lifecycle management.

Thus, Complete Guest OS Update is the correct feature.

NEW QUESTION # 148

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