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**Exam : NCP-MCI-6.10**

**Title :** Nutanix Certified  
Professional - Multicloud  
Infrastructure (NCP-MCI  
v6.10)

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## Nutanix NCP-MCI-6.10 Prüfungsplan:

| Thema | Einzelheiten |
|-------|--------------|
|       |              |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Thema 1 | <ul style="list-style-type: none"> <li>• <b>Manage Clusters within a Nutanix Multicloud Environment:</b> 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> |
| Thema 2 | <ul style="list-style-type: none"> <li>• <b>Troubleshoot a Nutanix Multicloud Environment:</b> 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>                                                                                                                  |
| Thema 3 | <ul style="list-style-type: none"> <li>• <b>Manage VMs within a Nutanix Multicloud Environment:</b> 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>                                                                                                                                                    |
| Thema 4 | <ul style="list-style-type: none"> <li>• <b>Configure Disaster Recovery and Data Protection within a Nutanix Multicloud Environment:</b> 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>                                                                                                                                                                                                                       |
| Thema 5 | <ul style="list-style-type: none"> <li>• <b>Conduct Custom Monitoring within a Nutanix Multicloud Environment:</b> 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>                                                                                                                                                                                                                                                                                                          |

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## Nutanix NCP-MCI-6.10 Kostenlos Downladen & NCP-MCI-6.10 Prüfungs-Guide

Bitte glauben Sie, dass wir PrüfungFrage Team sehnen sich nach dem Bestehen der Nutanix NCP-MCI-6.10 Prüfung genauso wie Sie. Vielleicht sorgen Sie jetzt um die Prüfungsvorbereitung. Wir helfen Ihnen, die Konfidenz zu erwerben. Durch die kontinuierliche Verbesserung unseres Teams können wir mit Stolz Ihnen mitteilen, dass die Nutanix NCP-MCI-6.10 Prüfungsunterlagen von uns

Ihnen Überraschung mitbringen können. Sie können zuerst unsere Demo kostenfrei herunterladen und schauen, welche Version der Nutanix NCP-MCI-6.10 Prüfungsunterlagen für Sie am passendsten ist. Danach können Sie Ihre verstärkte IT-Fähigkeit und die Freude der Erwerbung der Nutanix NCP-MCI-6.10 Zertifizierung erlangen!

## Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI v6.10) NCP-MCI-6.10 Prüfungsfragen mit Lösungen (Q46-Q51):

### 46. Frage

An administrator using a dark site deployment for LCM is attempting to upgrade to the latest BIOS. After completing an inventory scan, the administrator does not see the expected BIOS version available for upgrade. What is the most likely reason the latest BIOS is not shown?

- A. The dark site webserver is not accessible.
- B. AOS needs to be upgraded first.
- **C. The latest compatibility bundle has not been uploaded.**
- D. The BMC version needs to be upgraded first.

**Antwort: C**

**Begründung:**

In a dark site deployment, LCM does not automatically fetch updates from the internet. The administrator must manually upload compatibility bundles.

- \* Option B (The latest compatibility bundle has not been uploaded) is correct:
- \* The compatibility bundle contains firmware mappings, allowing LCM to detect the correct BIOS version.
- \* Option A is incorrect:
- \* AOS does not need to be upgraded first for a BIOS update.
- \* Option C is incorrect:
- \* The BMC firmware does not always need updating before BIOS updates.
- \* Option D is incorrect:
- \* In a dark site deployment, LCM does not rely on an internet connection, so webserver access is not required.

**References:**

- \* Nutanix LCM Guide#Using Compatibility Bundles in Dark Sites
- \* Nutanix KB#Troubleshooting Firmware Updates in Dark Site Deployments

### 47. Frage

What can be used to easily group a set of VMs?

- **A. Tags**
- B. Labels
- C. Projects
- D. Catalog Items

**Antwort: A**

**Begründung:**

The Nutanix ECA course covers various methods for organizing and managing virtual machines (VMs) within a Nutanix environment, particularly in Prism Central. The question focuses on easily grouping a set of VMs, which requires a mechanism that is flexible, scalable, and straightforward to apply across multiple VMs for management, reporting, or policy application.

Extract from Nutanix Enterprise Cloud Administration (ECA) Course Documents:

\* Module: Prism Central Management, Section: Entity Organization "Tags provide a flexible way to group entities such as VMs in Prism Central. Tags are key-value pairs that can be assigned to VMs to categorize them for management, reporting, or policy enforcement. They are easy to apply and can be used to group VMs dynamically across clusters."

\* Module: VM Management, Section: Grouping VMs "To group a set of VMs for simplified management, Tags are the recommended approach. Unlike Categories, which are used for role-based access control and policy enforcement, Tags are lightweight and ideal for custom grouping without additional configuration overhead." Explanation of Options:

\* A. Catalog Items This is incorrect. Catalog Items in Nutanix are used within the Nutanix Calm or Marketplace to manage application blueprints or service offerings, not for grouping VMs. The ECA course states: "Catalog Items represent deployable applications or services in the Marketplace, not a mechanism for grouping existing VMs." They are unrelated to VM organization.

\* B. Labels This is incorrect. The term "Labels" is not used in Nutanix ECA documentation for grouping VMs. While Labels may be a generic term in other platforms, Nutanix uses "Tags" or "Categories" for similar purposes. The ECA materials do not reference

Labels as a feature in Prism Central or Prism Element for VM grouping.

\* C. Projects This is incorrect. Projects in Nutanix Prism Central are used to manage resources, users, and policies for a group of workloads, typically for multi-tenancy or resource allocation. While VMs can be associated with Projects, this involves additional configuration (e.g., assigning users, quotas, and policies) and is not the easiest way to group VMs. The ECA course notes: "Projects are used for resource governance and multi-tenancy, requiring additional setup compared to Tags for simple VM grouping."

\* D. Tags This is the correct answer. Tags are lightweight, user-defined key-value pairs that can be applied to VMs in Prism Central to group them for management, monitoring, or reporting purposes. The ECA course emphasizes that Tags are easy to assign and manage, making them ideal for grouping VMs without the overhead of other mechanisms like Categories or Projects. Tags can be applied to multiple VMs at once and used in searches, dashboards, or scripts.

\* Supporting Extract: "Tags allow administrators to quickly group VMs by assigning custom key-value pairs, such as 'Department: HR' or 'Environment: Production.' They are ideal for ad-hoc grouping and can be leveraged in Prism Central for filtering and management tasks." Additional Context from ECA:

\* Tags are managed in Prism Central under the Entities > Tags section, where administrators can create, assign, and manage Tags for VMs and other entities. The ECA course highlights their simplicity: "Tags require minimal configuration and can be applied to VMs in bulk, making them the easiest method for grouping."

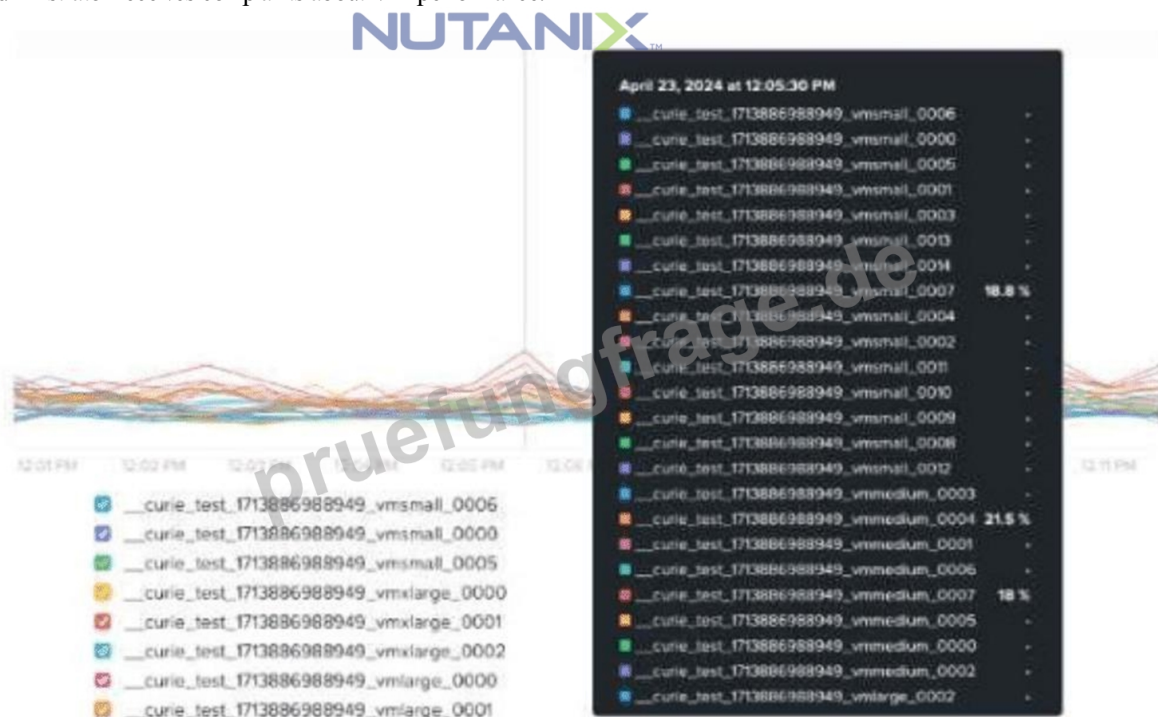
\* Unlike Categories, which are used for policy enforcement (e.g., security or placement policies), Tags are purely for organizational purposes, aligning with the question's focus on ease of use.

Supporting Reference from Web Results:

The Nutanix Bible (<https://www.nutanix.com/go/the-nutanix-bible>) aligns with the ECA documentation: "Tags in Prism Central provide a simple and flexible way to organize VMs and other entities, enabling administrators to group resources for management or reporting without complex configurations."

#### 48. Frage

An administrator receives complaints about VM performance.



After reviewing the VM's CPU Ready Time data shown in the exhibit, which step should the administrator take to diagnose the issue further?

- A. Assess cluster SSD capacity.
- B. Check the number of vCPUs assigned to each CVM.
- C. Review host CPU utilization.
- D. Enable VM memory oversubscription.

Antwort: C

Begründung:

Understanding the Issue

The administrator is investigating VM performance complaints and is analyzing CPU Ready Time data.

- \* CPU Ready Time is a crucial metric in Nutanix and virtualization environments (AHV, ESXi, or Hyper- V).
- \* It measures the amount of time a VM is waiting for CPU scheduling due to resource contention.
- \* High CPU Ready Time indicates that VMs are ready to run but are waiting because the host lacks available CPU resources.

#### Analysis of the Exhibit

- \* The graph shows CPU Ready Time spikes for multiple VMs.
- \* Some VMs have CPU Ready Time exceeding 18% to 21.5%, which is very high.
- \* A healthy CPU Ready Time should be below 5%.
- \* Values above 10% indicate CPU contention, and anything above 20% is critical and requires immediate troubleshooting.

#### Evaluating the Answer Choices

#(A) Check the number of vCPUs assigned to each CVM. (Incorrect)

- \* CVMs (Controller VMs) have fixed CPU allocation, and modifying their vCPU count is not recommended unless advised by Nutanix Support.

\* The issue is related to VM CPU contention, not CVM configuration.

#(B) Review host CPU utilization. (Correct Answer)

- \* High CPU Ready Time suggests CPU overcommitment or host saturation.
- \* The administrator should check host CPU usage in Prism Central to determine if the cluster is overloaded.
- \* If host CPU usage is consistently above 85-90%, VMs are competing for CPU resources, leading to high CPU Ready Time.

#(C) Assess cluster SSD capacity. (Incorrect)

- \* SSD capacity impacts storage performance (latency, read/write speeds) but does not affect CPU Ready Time.
- \* High CPU Ready Time is a CPU scheduling issue, not a storage bottleneck.

#(D) Enable VM memory oversubscription. (Incorrect)

- \* Memory oversubscription does not impact CPU scheduling.
- \* Enabling memory oversubscription affects RAM allocation, but CPU Ready Time is strictly related to CPU contention.

#### Next Steps to Diagnose & Resolve the Issue

- \* Review Host CPU Utilization:
  - \* Navigate to Prism Central # Analysis # CPU Usage per Host.
  - \* Identify hosts experiencing high CPU load.
- \* Check VM vCPU Allocation:
  - \* Ensure that VMs do not have excessive vCPUs assigned, which can lead to scheduling inefficiencies.
  - \* Overprovisioning vCPUs can cause unnecessary contention.
- \* Balance Workload Across Hosts:
  - \* Use Nutanix AHV DRS (Dynamic Scheduling) or VMware DRS to redistribute VMs across hosts.
  - \* Check if certain hosts are overloaded while others have spare CPU capacity.
- \* Consider Scaling Out the Cluster:
  - \* If CPU usage is consistently high, adding more nodes may be required to reduce CPU contention.

#### Multicloud Infrastructure References & Best Practices

- \* CPU Ready Time Best Practices:
  - \* Keep CPU Ready Time below 5%.
  - \* Avoid overcommitting vCPUs on heavily loaded hosts.
  - \* Monitor Prism Central Runway Metrics to predict future CPU resource needs.
- \* Nutanix AHV CPU Scheduling Optimization:
  - \* Ensure proper VM sizing (avoid excessive vCPU allocation).
  - \* Balance workloads using Nutanix AHV DRS.

#### References:

Nutanix Prism Central: Performance Analysis and CPU Metrics

Nutanix Bible: VM Performance and Resource Management

Nutanix KB: Troubleshooting High CPU Ready Time in AHV

## 49. Frage

An administrator is planning for an upcoming maintenance window. The administrator would like to minimize the chance of an upgrade failure during the maintenance window to ensure the updates will complete without issue.

What action should the administrator take to reduce the risk of any potential failures during an upgrade?

- A. Reboot each host one-at-a-time to ensure the reboots are successful.
- **B. Run an Upgrade Precheck from LCM.**
- C. Upgrade AOS to the latest version from LCM.
- D. Reboot each CVM one-at-a-time to ensure the reboots are successful.

**Antwort: B**

### 50. Frage

An administrator needs to create a storage container for VM disks. The container must meet the following conditions:

- \* 10 GiB of the total allocated space must not be used by other containers.
- \* The container must have a maximum storage capacity of 500 GiB.

What settings should the administrator configure while creating the storage container?

- A. Set Advertised Capacity to 10 GiB and Reserved Capacity to 500 GiB.
- B. Set Advertised Capacity to 10 GiB.
- **C. Set Reserved Capacity to 10 GiB and Advertised Capacity to 500 GiB.**
- D. Set Reserved Capacity to 500 GiB.

**Antwort: C**

Begründung:

Nutanix storage containers allow administrators to configure capacity reservations and advertised limits for better resource management.

- \* Option D (Set Reserved Capacity to 10 GiB and Advertised Capacity to 500 GiB) is correct:
- \* Reserved Capacity ensures that 10 GiB is always available for this container and not consumed by other containers.
- \* Advertised Capacity defines logical limit of 500 GiB to prevent over-allocation.
- \* Option A is incorrect:
- \* Advertised Capacity of 10 GiB is too low and does not match the requirement of a 500 GiB storage container.
- \* Option B is incorrect:
- \* Only setting Advertised Capacity does not guarantee Reserved Capacity, meaning other containers could consume the reserved space.
- \* Option C is incorrect:
- \* Setting only Reserved Capacity does not enforce an upper limit, which could lead to overprovisioning.

References:

- \* Nutanix Storage Management Guide#Understanding Storage Container Settings
- \* Nutanix KB#Advertised vs. Reserved Capacity in Storage Containers

### 51. Frage

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