

# Nutanix

## Exam Questions NCP-MCI-6.10

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



### NEW QUESTION 1

If an administrator creates a report with no retention policy configured, how many instances of the report are retained by default?

- A. 5
- B. 10
- C. 15
- D. 20

**Answer: B**

#### Explanation:

By default, Nutanix Prism Central retains the last 10 instances of a report if no retention policy is configured.

? Option B (10) is correct:

? Options A (5), C (15), and D (20) are incorrect:

References:

? Nutanix Prism Central Guide Report Generation and Retention Policies

? Nutanix KB How Reports Are Stored and Managed in Prism Central

### NEW QUESTION 2

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

**Answer: C**

#### Explanation:

Network performance issues during replication can be mitigated using Bandwidth Throttling to control traffic spikes.

? Option C (Configure a Bandwidth Throttling Policy) is correct:

? Option A (Configure NAT) is incorrect:

? Option B (Many-to-Many Replication) is incorrect:

? Option D (Remote Cluster VIP as Proxy) is incorrect:

References:

? Nutanix Protection Policies Guide Bandwidth Throttling for Remote Site Replication

? Nutanix KB Optimizing Network Performance for Disaster Recovery

### NEW QUESTION 3

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

**Answer: B**

#### 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:

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

? Option C (Recommended resources) is incorrect:

? Option D (Target is 1 month) is incorrect:

References:

? Nutanix Prism Central Guide Capacity Planning & Runway Analysis

? Nutanix KB Understanding Capacity Runway and Workload Sustainability

### NEW QUESTION 4

The team leads of a development environment want to limit developer access to a specific set of VMs. What is the most efficient way to enable the team leads to directly manage these VMs?

- A. Create a role mapping for each team lead and assign appropriately.
- B. Create a VPC for each team lead and give them VPC Admin.
- C. Create a Project for each team lead and assign access.
- D. Create Security Policies to isolate users.

**Answer: C**

#### Explanation:

The most efficient way to allow team leads to manage a specific set of VMs is by creating a Project (Option C) in Prism Central and assigning the team leads to that Project.

? Nutanix Projects allow administrators to control VM access based on groups and permissions, ensuring that users only manage VMs assigned to their project.

? Option A (Role Mapping) applies more broadly to roles but does not restrict access to specific VM groups.

? Option B (VPC Admin) is related to network segmentation, not VM access control.

? Option D (Security Policies) are used for network and firewall rules, not VM access control.

References:

- ? Nutanix Prism Central Projects and Role-Based Access Control (RBAC)
- ? Nutanix Bible Multi-Tenancy and Project-Based Access Control
- ? Nutanix KB Setting Up Role-Based Access Control (RBAC) for Prism Central

#### NEW QUESTION 5

An administrator needs to ensure that a VM is powered on before the rest of the VMs when starting a host. Which configuration option allows this behavior?

- A. Recovery Plan
- B. Host Affinity
- C. High Availability
- D. Agent VM

**Answer: C**

#### Explanation:

High Availability (HA) in Nutanix provides priority-based VM restart capabilities to ensure that certain VMs are powered on before others in the event of a host reboot or failure.

? Option C (High Availability) is correct:

? Option A (Recovery Plan) is incorrect:

? Option B (Host Affinity) is incorrect:

? Option D (Agent VM) is incorrect:

References:

- ? Nutanix Prism Element Guide Configuring HA Reservation and VM Priority
- ? Nutanix Bible High Availability (HA) and VM Failover
- ? Nutanix KB VM Restart Priority in High Availability Configurations

#### NEW QUESTION 6

Which two URLs must be accessible from a Connected Site's Controller VMs to allow Life Cycle Manager (LCM) to download software updates?

- A. download.nutanix.com
- B. mynutanix.com
- C. release-api.nutanix.com
- D. portal.nutanix.com

**Answer: AC**

#### Explanation:

LCM (Life Cycle Manager) fetches software updates from Nutanix's repositories, requiring access to specific URLs.

? Option A (download.nutanix.com) is correct:

? Option C (release-api.nutanix.com) is correct:

? Option B (mynutanix.com) is incorrect:

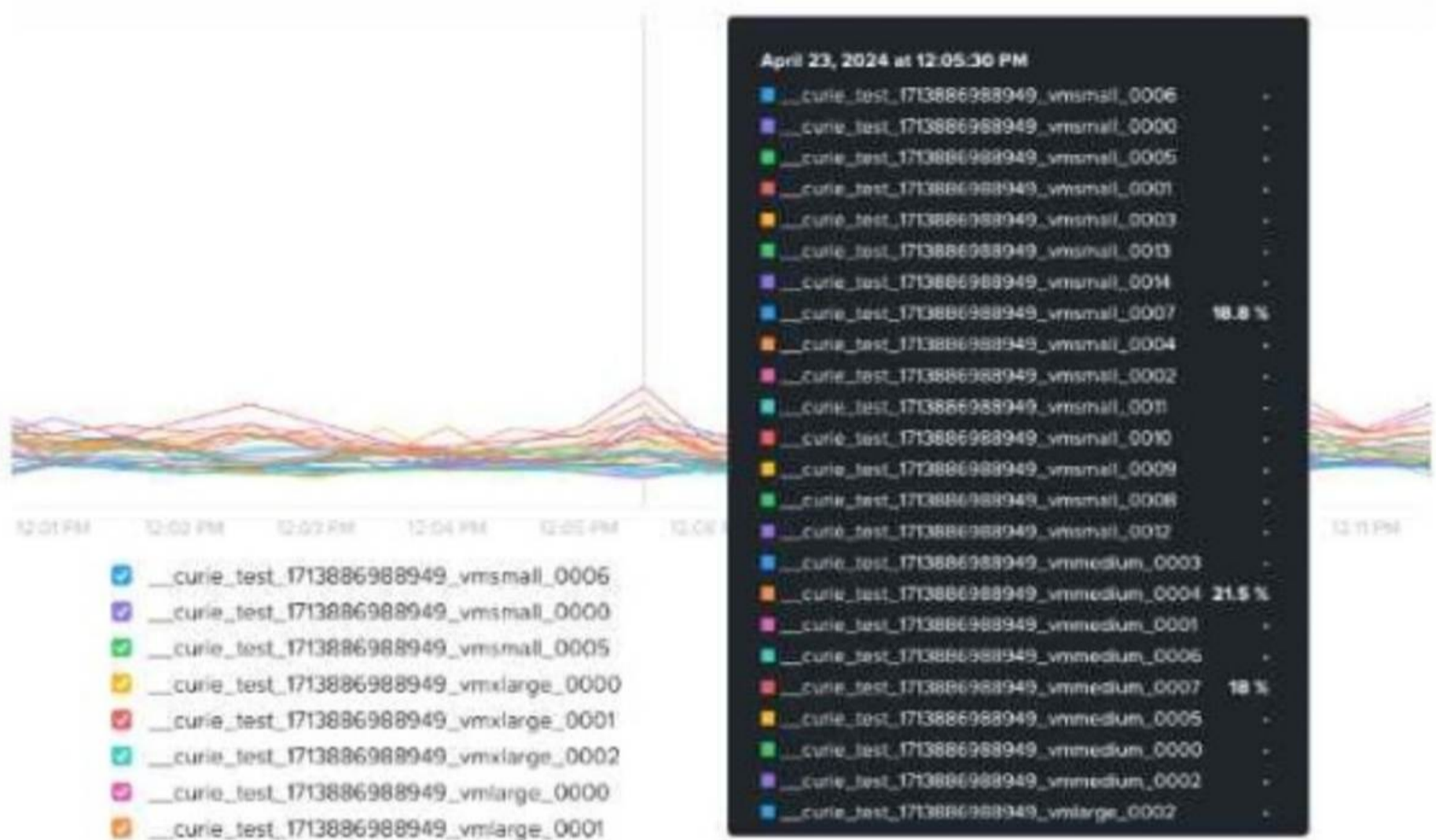
? Option D (portal.nutanix.com) is incorrect:

References:

- ? Nutanix LCM Guide Firewall Rules for LCM Connectivity
- ? Nutanix KB Troubleshooting LCM Update Failures

#### NEW QUESTION 7

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

**Answer: B**

**Explanation:**

**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:

? Check VM vCPU Allocation:

? Balance Workload Across Hosts:

? Consider Scaling Out the Cluster:

**Multicloud Infrastructure References & Best Practices**

? CPU Ready Time Best Practices:

? Nutanix AHV CPU Scheduling Optimization:

**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

### NEW QUESTION 8

An administrator needs to create a storage container named TestData with the following conditions:

- ? Replication Factor (RF) = 1 (RF1)
- ? Inline Compression enabled
- ? Deduplication disabled
- ? Maximum storage capacity = 100 GiB

How should the administrator complete this task?

- A. Log into Prism Element and create the storage container with an Advertised Capacity of 100 GiB.
- B. Log into Prism Element and create the storage container.
- C. Log into Prism Central and create the storage container with a Reserved Capacity of 100 GiB.
- D. Log into Prism Central and create the storage container.

**Answer:** A

#### Explanation:

When creating a storage container in Nutanix, the administrator must configure the correct capacity settings:

- ? Option A (Prism Element with Advertised Capacity of 100 GiB) is correct:
- ? Option B (Create in Prism Element without Advertised Capacity) is incorrect:
- ? Option C (Create in Prism Central with Reserved Capacity) is incorrect:
- ? Option D (Create in Prism Central without capacity limits) is incorrect:

References:

- ? Nutanix Storage Management Guide Creating and Managing Storage Containers
- ? Nutanix Bible Replication Factor (RF) and Data Optimization
- ? Nutanix KB Inline Compression Best Practices in Nutanix AOS

### NEW QUESTION 9

A security team asks an administrator to set up port mirroring of a specific source VM to a target VM. What must the administrator ensure for this configuration to be possible?

- A. Source VM and Target VM are on the same VLAN.
- B. Source VM and Target VM are on the same host.
- C. Source VM and Target VM are on the same subnet.
- D. Source VM and Target VM are on the same VPC.

**Answer:** B

#### Explanation:

Port mirroring requires the source and target VMs to be on the same host to efficiently copy network traffic without additional routing overhead.

- ? Option B (Source VM and Target VM are on the same host) is correct:
- ? Option A (Same VLAN) is incorrect:
- ? Option C (Same subnet) is incorrect:
- ? Option D (Same VPC) is incorrect:

References:

- ? Nutanix AHV Networking Guide Configuring Port Mirroring in AHV
- ? Nutanix KB Port Mirroring Best Practices

### NEW QUESTION 10

What guest customization options are available when creating a VM template?

- A. Sysprep, Cloud-init, Custom Script, Guided Script
- B. Bash, Powershell
- C. Python, YAML
- D. None, guest customization is not supported in Nutanix templates.

**Answer:** A

#### Explanation:

Guest customization options allow administrators to automate OS configuration during VM deployment from a template.

- ? Option A (Sysprep, Cloud-init, Custom Script, Guided Script) is correct:
- ? Options B and C are incorrect:
- ? Option D is incorrect:

References:

- ? Nutanix VM Deployment Guide Using Cloud-Init and Sysprep for Guest Customization
- ? Nutanix KB Automating VM Deployments with Guest Customization

### NEW QUESTION 10

An administrator needs to set up a protection policy in preparation for a Disaster Recovery (DR) test. What is the first step required to satisfy this task?

- A. Install NGT (Nutanix Guest Tools) on VMs where applications are supported.
- B. Create an Availability Zone between Production and DR.
- C. Convert the source cluster to AHV.
- D. Create a point-in-time snapshot of source VMs.

**Answer:** B

#### Explanation:

For Nutanix Disaster Recovery (DR) protection policies, the first step is to establish a connection between the Production cluster and the DR site, which is done by

creating an Availability Zone (AZ) (Option B).

? Availability Zones (AZs) define remote sites for replication and are a requirement for configuring protection domains and disaster recovery plans.

? Option A (Installing NGT) is not necessary for setting up replication but is useful for application-consistent snapshots.

? Option C (Converting the source cluster to AHV) is not required, as Nutanix supports cross-hypervisor DR between ESXi and AHV.

? Option D (Creating a point-in-time snapshot) is a later step after setting up the Availability Zone and Protection Policy.

References:

? Nutanix Protection Policies and DR Documentation

? Nutanix Bible Disaster Recovery Planning

? Nutanix Support KB Configuring Availability Zones in Prism Central

#### NEW QUESTION 11

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

- A. 2
- B. 3
- C. 4
- D. 5

**Answer: B**

#### Explanation:

Replication Factor (RF2) means that each piece of data is stored twice across different nodes to ensure availability.

? Option B (3 nodes) is correct:

? Option A (2 nodes) is incorrect:

? Option C (4 nodes) and Option D (5 nodes) are incorrect:

References:

? Nutanix Bible Replication Factor (RF) and Fault Tolerance

? Nutanix Prism Element Guide Managing Node Failures and Removals

#### NEW QUESTION 14

An administrator is preparing for a firmware upgrade on a host and wants to manually migrate VMs before executing the LCM upgrade. However, one VM is unable to migrate while others migrate successfully.

Which action would fix the issue?

- A. Enable Acropolis Dynamic Scheduling (ADS) at the cluster level.
- B. Update Link Layer Discovery Protocol (LLDP).
- C. Disable Agent VM within the VM configuration options.
- D. Configure backplane port groups that are assigned to the CVM.

**Answer: C**

#### Explanation:

If a VM is unable to migrate, the most likely cause is that it is an Agent VM (such as a Nutanix Witness VM or a VM with special dependencies).

? Option C (Disable Agent VM) is correct:

? Option A (Enable ADS) is incorrect:

? Option B (Update LLDP) is incorrect:

? Option D (Configure backplane port groups) is incorrect:

References:

? Nutanix Prism Element Guide Managing Agent VM Settings

? Nutanix Bible Host Maintenance and VM Live Migration

? Nutanix KB Troubleshooting VM Migration Failures in AHV

#### NEW QUESTION 15

An administrator wants to enable application discovery on a Nutanix cluster to monitor applications. A Prism Central instance is already configured with sufficient CPU and memory.

What other prerequisites must be met before enabling application discovery? (Choose two.)

- A. Sufficient Prism Central VM resources
- B. Internet connection
- C. API key and key ID
- D. Network controller is enabled

**Answer: AB**

#### Explanation:

Application discovery in Prism Central requires sufficient Prism Central resources and an active internet connection to retrieve application signatures.

? Option A (Sufficient Prism Central VM resources) is correct:

? Option B (Internet connection) is correct:

? Option C (API key and key ID) is incorrect:

? Option D (Network controller enabled) is incorrect:

References:

? Nutanix Prism Central Guide Enabling and Using Application Discovery

? Nutanix KB Requirements for Application Discovery in Prism Central

#### NEW QUESTION 16

Refer to Exhibit:

LCM

Best Practices

Inventory

A newer version 2.7.1 of the framework is available.

An administrator notices the message shown in the exhibit when navigating to LCM from Prism Central. Which action should the administrator take to update LCM to the latest version?

- A. Run an AOS upgrade.
- B. Run an AHV upgrade.
- C. Perform an Inventory Scan.
- D. Download and install the latest LCM version from a CVM.

**Answer: C**

**Explanation:**

When Life Cycle Manager (LCM) reports that a newer framework version is available, the correct action is to perform an inventory scan (Option C).

? Performing an inventory scan updates the available firmware/software versions and allows LCM to download required updates.

? Option A (Run an AOS upgrade) is unrelated to the LCM framework update process.

? Option B (Run an AHV upgrade) is a separate component update and does not affect the LCM framework.

? Option D (Download manually from a CVM) is not necessary because LCM updates are automatically pulled after an inventory scan.

References:

? Nutanix LCM User Guide Updating LCM Framework and Performing Inventory Scans

? Nutanix KB Best Practices for LCM Updates

? Nutanix Prism Central LCM Update Workflow

**NEW QUESTION 20**

An administrator has been asked to calculate baseline Capacity Runway on a newly registered AHV cluster.

The cluster has been running for 16 days, but no runway projections are displayed. Why are no Capacity Runway projections being displayed?

- A. Capacity Planning requires at least 30 days of data.
- B. Capacity Planning requires at least 21 days of data.
- C. Capacity Planning requires at least 3 months of data.
- D. Capacity Planning requires at least 6 months of data.

**Answer: B**

**Explanation:**

Nutanix Prism Central requires at least 21 days of usage data to generate accurate Capacity Runway projections.

? Option B (21 days) is correct:

? Option A (30 days) is incorrect:

? Option C (3 months) and Option D (6 months) are incorrect:

References:

? Nutanix Prism Central Guide Understanding Capacity Runway Calculations

? Nutanix KB Why No Capacity Runway Data is Displayed for New Clusters

**NEW QUESTION 21**

A user created a report in the Intelligent Operations Analysis Dashboard but forgot to download it. However, after logging back into Prism Central, the administrator finds that the report is no longer available.

What is the most likely cause?

- A. A user with Cluster Viewer role deleted the report.
- B. The user-generated report was archived.
- C. Reports are automatically deleted after 24 hours.
- D. The report is stored in the cluster's Prism Element.

**Answer: C**

**Explanation:**

In Nutanix Prism Central, user-generated reports in Intelligent Operations are stored for a limited time and then deleted automatically.

? Option C (Reports are automatically deleted after 24 hours) is correct:

? Option A (Cluster Viewer deleted the report) is incorrect:

? Option B (Report was archived) is incorrect:

? Option D (Report stored in Prism Element) is incorrect:

References:

? Nutanix Prism Central Guide Intelligent Operations & Report Retention Policies

? Nutanix KB Why Reports in Prism Central Are Not Persisting

#### NEW QUESTION 24

An administrator is working with a network engineer to design the network architecture for a DR failover. Because DNS is well-designed, the DR site will use a different subnet but retain the same last octet in the IP address. What is the best way to achieve this?

- A. Use a custom script to update the IP address after instantiation in DR.
- B. Set up IPAM so the address is dynamically assigned during DR.
- C. Manually log into VMs after the DR event and update the last octet.
- D. Utilize Recovery Plan Offset-based IP mapping.

**Answer:** D

#### Explanation:

Offset-based IP mapping in Nutanix Recovery Plans allows automatic subnet changes during DR failover.

? Option D (Utilize Recovery Plan Offset-based IP mapping) is correct:

? Option A (Custom script) is incorrect:

? Option B (Use IPAM) is incorrect:

? Option C (Manually update IPs) is incorrect:

References:

? Nutanix Disaster Recovery Guide Using Offset-Based IP Mapping

? Nutanix KB Best Practices for Managing IP Addresses in DR

#### NEW QUESTION 29

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 500 GiB.
- D. Set Reserved Capacity to 10 GiB and Advertised Capacity to 500 GiB.

**Answer:** D

#### Explanation:

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:

? Option A is incorrect:

? Option B is incorrect:

? Option C is incorrect:

References:

? Nutanix Storage Management Guide Understanding Storage Container Settings

? Nutanix KB Advertised vs. Reserved Capacity in Storage Containers

#### NEW QUESTION 34

An administrator started an LCM upgrade of the AHV hosts but realized that the upgrade would exceed the planned maintenance window.

Which feature should be leveraged to prevent additional updates from occurring?

- A. Cancel the LCM tasks via the Ergon command line (ecli).
- B. Run the `lcm_task_cleanup.py` script.
- C. Restart Genesis on the cluster to restart the LCM service.
- D. Use the Stop Update feature in LCM.

**Answer:** D

#### Explanation:

When performing a Life Cycle Manager (LCM) upgrade, the recommended way to stop the process is to use the "Stop Update" feature in LCM (Option D).

? Option A (Cancel via Ergon ecli) is not a recommended approach since manually interfering with running tasks can cause inconsistencies.

? Option B (`lcm_task_cleanup.py` script) is used for post-upgrade cleanup but does not stop ongoing updates.

? Option C (Restarting Genesis) does not stop an LCM upgrade and can cause instability.

References:

? Nutanix Life Cycle Manager (LCM) User Guide

? Nutanix KB: Best Practices for Stopping and Restarting LCM Tasks

? Nutanix Prism Central LCM Feature Documentation

#### NEW QUESTION 37

An administrator has been tasked with justifying why Nutanix Disaster Recovery was chosen for a multi-tier application spanning multiple business units.

What is the most efficient way to organize and manage the workloads?

- A. Utilize a VM naming schema that allows sorting
- B. Utilize Categories to organize VMs in Recovery Plans
- C. Utilize a 1:10 ratio of Recovery Plan to VMs
- D. Utilize RESTful APIs to script creation of Recovery Plans

**Answer:** B

#### Explanation:

Nutanix Categories allow administrators to group related VMs, making Disaster Recovery (DR) planning easier.

? Option B (Utilize Categories to organize VMs in Recovery Plans) is correct:

- ? Option A (Naming schema) is incorrect:
  - ? Option C (1:10 Recovery Plan to VMs) is incorrect:
  - ? Option D (RESTful APIs) is incorrect:
- References:
- ? Nutanix Disaster Recovery Guide Using Categories for DR Management
  - ? Nutanix KB Organizing VMs for Disaster Recovery Planning

#### NEW QUESTION 41

Which update in LCM can an administrator apply on a per-node basis?

- A. AOS
- B. BMC
- C. NCC
- D. AHV

**Answer: B**

#### Explanation:

BMC (Baseboard Management Controller) updates can be applied per-node in Nutanix LCM, unlike AOS or AHV, which require cluster-wide upgrades.

- ? Option B (BMC) is correct:
- ? Option A (AOS) is incorrect:
- ? Option C (NCC) is incorrect:
- ? Option D (AHV) is incorrect:

References:

- ? Nutanix LCM User Guide Per-Node Firmware Updates
- ? Nutanix KB How to Upgrade BMC Using LCM

#### NEW QUESTION 46

An administrator notices high CPU usage on a VM and wants to determine whether adding more vCPUs would improve performance. Which two metrics should be analyzed to make this decision? (Choose two.)

- A. VM CPU Ready Time
- B. VM CPU Usage
- C. Host CPU Usage
- D. Host Memory Swap Out Rate

**Answer: AB**

#### Explanation:

When diagnosing CPU performance issues, CPU Ready Time and CPU Usage are the key indicators of whether more vCPUs are needed.

- ? Option A (VM CPU Ready Time) is correct:
- ? Option B (VM CPU Usage) is correct:
- ? Option C (Host CPU Usage) is incorrect:
- ? Option D (Host Memory Swap Out Rate) is incorrect:

References:

- ? Nutanix Prism Central Guide Analyzing VM CPU Performance
- ? Nutanix KB Understanding CPU Ready Time and VM Performance

#### NEW QUESTION 49

An administrator is trying to configure Metro Availability between Nutanix ESXi-based clusters. However, the Compatible Remote Site screen does not list all required storage containers.

Which two reasons could be a cause for this issue? (Choose two.)

- A. Source and destination hardware are from different vendors.
- B. The remote site storage container has compression enabled.
- C. The destination storage container is not empty.
- D. Both storage containers must have the same name.

**Answer: CD**

#### Explanation:

For Metro Availability to work properly, the storage containers at both the primary and secondary sites must meet certain requirements:

- ? The storage containers must have the same name (Option D). This ensures that replication and failover work seamlessly. If the names do not match, the storage containers will not be listed as compatible.
- ? The destination storage container must be empty (Option C). Metro Availability requires a clean storage container at the secondary site to receive data. If the container already contains data, it cannot be used.
- ? Option A is incorrect: Different vendor hardware does not affect Metro Availability compatibility.
- ? Option B is incorrect: Compression does not affect Metro Availability compatibility.

However, it is recommended to keep compression settings aligned between sites.

References:

- ? Nutanix Documentation: Metro Availability Deployment Guide
- ? Nutanix Best Practices for Metro Availability
- ? Nutanix KB 2093: Troubleshooting Metro Availability Storage Container Issues

#### NEW QUESTION 52

Refer to the Exhibit:

Host 1 (128 GB)			
VMs	VM Memory (GB)	Utilized Memory (GB)	Unutilized Memory (GB)
VM1	64 GB	48 GB	16 GB
VM2	32 GB	20 GB	12 GB
VM3	32 GB	24 GB	8 GB
Total	128 GB	92 GB	36 GB

An administrator needs to create two virtual machines: VM4 and VM5 that leverage the memory over-commit feature. Once VM4 is created and running, the administrator notices that it uses only 28GB of RAM. What will be the maximum RAM that can be allocated to VM5 so that it can be powered on?

- A. 4GB
- B. 8GB
- C. 16GB
- D. 32GB

**Answer:** B

**Explanation:**

Understanding the Exhibit & Memory Allocation

? The host has 128GB of physical RAM.

? The current memory allocation across three VMs (VM1, VM2, VM3) is 128GB, but only 92GB is actually utilized.

? This means there is 36GB of unutilized memory available for allocation.

Step-by-Step Breakdown

? Existing Memory Usage Before Adding VM4

? After Creating and Running VM4

? Maximum Memory Allocation for VM5

Evaluating the Answer Choices

? (A) 4GB (Incorrect)

? (B) 8GB (Correct)

? (C) 16GB (Incorrect)

? (D) 32GB (Incorrect)

Key Concept: Nutanix Memory Overcommit

? Nutanix AHV supports memory overcommit, meaning VMs can be allocated more memory than physically available using memory ballooning and swapping.

? However, to power on VM5 without impacting performance, it must fit within the available unutilized memory, which is 8GB.

**NEW QUESTION 53**

An administrator has configured AHV Metro Availability with Witness and is testing failover scenarios.

During testing, the administrator disconnects the primary and recovery clusters but Prism Central remains connected to the recovery site.

What are two expected system behaviors? (Choose two.)

- A. Guest VM I/O operations pause (freeze) until connectivity is restored.
- B. Guest VM I/O operations pause (freeze) until connectivity between Prism Central and the primary site is restored.
- C. Guest VMs failover automatically to the recovery cluster.
- D. Guest VMs continue to run on the primary cluster.

**Answer:** AC

**Explanation:**

When connectivity between Metro clusters is lost, Nutanix Metro Availability ensures data integrity using Witness for automatic failover.

? Option A (Guest VM I/O operations pause until connectivity is restored) is correct:

? Option C (Guest VMs failover automatically to the recovery cluster) is correct:

? Option B is incorrect:

? Option D is incorrect:

References:

? Nutanix Metro Availability Guide How Witness Handles Failover Scenarios

? Nutanix KBI/O Freezing and Failover Behavior in Metro Clusters

**NEW QUESTION 54**

An administrator is configuring a replication schedule on multiple remote locations deployed using a single-node cluster. The goal is to achieve the lowest possible RPO (Recovery Point Objective).

How should the administrator configure the replication schedule?

- A. Configure NearSync replication.
- B. Configure a schedule for 16 minutes up to 59 minutes.
- C. Configure Async replication.
- D. Configure a schedule for 1 minute up to 15 minutes.

**Answer:** D

**Explanation:**

Nutanix NearSync replication provides the lowest RPO (as low as 1 minute) and is the best option for minimizing data loss in DR scenarios.

? Option D (Configure a schedule for 1 minute up to 15 minutes) is correct:

? Option A (Configure NearSync) is incorrect:

? Option B (16 to 59 minutes) is incorrect:

? Option C (Async replication) is incorrect:

References:

- ? Nutanix Protection Policies GuideNearSync vs. Async Replication
- ? Nutanix BibleRPO and RTO in Disaster Recovery
- ? Nutanix KBConfiguring NearSync Replication for Single-Node Clusters

#### **NEW QUESTION 56**

An administrator has successfully configuredMetro Availabilityfor aProtection Domain. However, after a few days, anNCC warningis raised: "Following VMs are accessing data from remote clusters: VM-1 from remote cluster Remote-ML"

What is the first action an administrator must take to fix the issue?

- A. Run the command:`ncli pd list metro-avail=true | egrep "Protection Domain Stretch Role" | grep "ACTIVE"`
- B. Use must-affinity rules to avoid automated VM migration to the standby datastore.
- C. Migrate the VM to its primary site and set appropriate rules for DRS and affinity.
- D. Run the command:`ncc health_checks metro_availability_checks data_locality_check --cvm_list=X.X.X.20`

**Answer: C**

#### **Explanation:**

Metro Availability requires that VMs always read data from their primary site to maintain optimal performance and prevent remote data access latency.

? Option C (Migrate the VM to its primary site and set appropriate rules) is correct:

? Option A is incorrect:

? Option B is incorrect:

? Option D is incorrect:

References:

- ? Nutanix Bible Metro Availability and Data Locality
- ? Nutanix Best Practices VM Affinity Rules for Metro Availability
- ? Nutanix KB Troubleshooting Remote Data Access in Metro Availability

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