



# Nutanix

## Exam Questions NCP-MCI-6.10

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

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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 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:

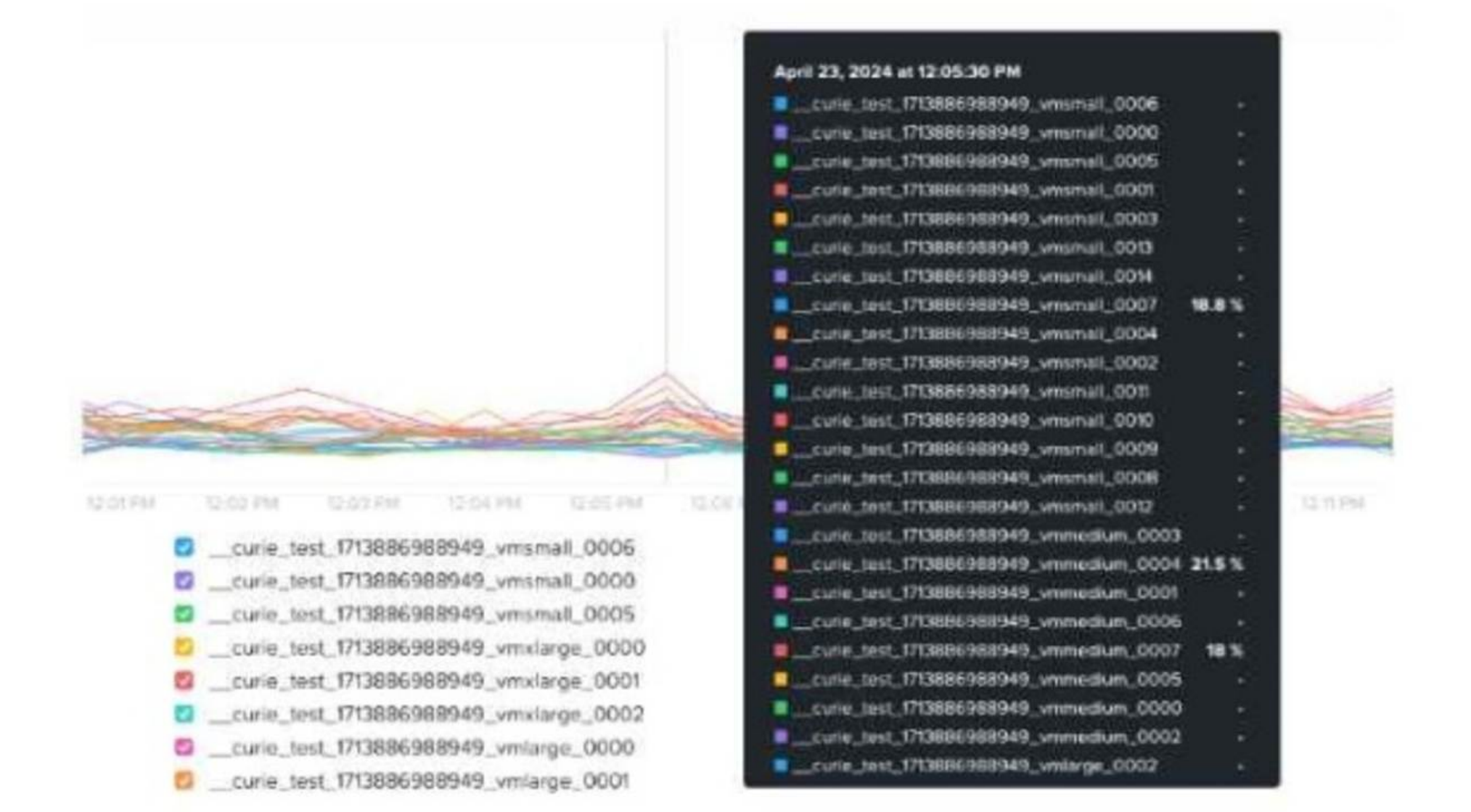
? Nutanix Prism Element Guide Configuring HA Reservation and VM Priority

? Nutanix Bible High Availability (HA) and VM Failover

? Nutanix KB VM Restart Priority in High Availability Configurations

NEW QUESTION 3

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 4**

An administrator is trying to delete a protected snapshot but is unable to do so.

What is the most likely cause?

- A. There is an active recovery occurring at that time.
- B. Ransomware has encrypted the snapshot.
- C. There is an approval policy that was denied.
- D. The snapshot has been corrupted.

**Answer:** A

**Explanation:**

Snapshots that are part of an active recovery operation cannot be deleted until the process is completed or manually canceled.

? Option A (Active recovery in progress) is correct:

? Option B (Ransomware encryption) is incorrect:

? Option C (Approval policy denial) is incorrect:

? Option D (Snapshot corruption) is incorrect:

References:

? Nutanix Protection Policies Snapshot Retention and Deletion

? Nutanix Bible Backup & Disaster Recovery Mechanisms

? Nutanix KB How to Delete a Snapshot Used in Recovery Plans

**NEW QUESTION 5**

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 6**

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 7**

Which predefined view in Prism Central's Intelligent Operations should be used to determine which VM is consuming excessive resources and causing performance issues for others?

A. Inactive VMs List

B. Overprovisioned VMs List

C. Bully VMs List

D. Constrained VMs List

**Answer:** C

**Explanation:**

The Bully VMs List (Option C) in Prism Central's Intelligent Operations identifies VMs consuming excessive CPU, memory, or storage, which negatively affects other VMs.

? Option A (Inactive VMs List) is used for identifying unused VMs but does not detect performance issues.

? Option B (Overprovisioned VMs List) helps identify VMs with excessive allocated resources, but it does not focus on live performance impact.

? Option D (Constrained VMs List) highlights VMs suffering from resource contention, not those causing it.

References:

? Nutanix Prism Central Intelligent Operations and Performance Tuning

? Nutanix KB Identifying and Managing Resource-Hogging VMs

**NEW QUESTION 8**

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 9**

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 10**

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 Controller VM (CVM) resources.
- 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:

? Option A is incorrect:

? Option B is incorrect:

? Option C is incorrect:

References:

? Nutanix AHV Performance Tuning Guide

? Nutanix KB Optimizing Windows VM Performance on AHV

**NEW QUESTION 10**

Refer to Exhibit:



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 13

An administrator is responsible for resource planning and needs to plan for resiliency of a 10-node RF3 cluster. The cluster has 100TB of storage.

How should the administrator plan for capacity in the event of future failures?

A. Set Reserve Storage Capacity (%) to 20.

B. Set Reserve Capacity for Failure to None.

C. Set Reserve Capacity for Failure to Auto Detect.

D. Set Reserve Memory Capacity (%) to 20.

**Answer: C**

#### Explanation:

RF3 (Replication Factor 3) clusters require sufficient reserved capacity to tolerate failures without data loss.

? Option C (Set Reserve Capacity for Failure to Auto Detect) is correct:

? Option A (Set Reserve Storage Capacity to 20%) is incorrect:

? Option B (Set Reserve Capacity for Failure to None) is incorrect:

? Option D (Set Reserve Memory Capacity to 20%) is incorrect:

References:

? Nutanix Bible Understanding Replication Factor (RF) and Failure Planning

? Nutanix Prism Element Guide Configuring Reserve Capacity for Cluster Resiliency

? Nutanix KB How to Plan Capacity for RF3 Clusters

### NEW QUESTION 18

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 21

An administrator needs to configure NTP on Prism Central running on a Hyper-V cluster. How should the administrator complete this task?

A. Add an external NTP server.

B. Add the DNS server IP.

C. Add a server with a DNS hostname.

D. Add the IP of the Domain Controller.

**Answer: A**

#### Explanation:

Nutanix requires that all cluster components synchronize time using an external NTP (Network Time Protocol) server.

? Option A (Adding an external NTP server) is correct because Nutanix best practices recommend using an external time source to prevent clock drift between cluster nodes.

? Option B (DNS server IP) is incorrect: A DNS server does not provide NTP services.

? Option C (Server with DNS hostname) is incorrect unless the DNS hostname resolves to an NTP server.

? Option D (IP of the Domain Controller) is incorrect because not all domain controllers provide NTP services unless explicitly configured.

References:

? Nutanix Best Practices: NTP Configuration for Hyper-V Clusters

? Nutanix KB: Ensuring Proper Time Synchronization Across Cluster Nodes

? Nutanix Documentation: Prism Central NTP Settings Configuration

### NEW QUESTION 24

What feature allows receiving a weekly message about infrastructure performance summary?

A. Admin Center Life Cycle Manager

B. Prism Central Syslog

C. Infrastructure VMs List

D. Intelligent Operations Reports

**Answer:** D

**Explanation:**

Nutanix Intelligent Operations Reports (Option D) provide weekly summaries of cluster health, performance, and resource consumption.

? These reports include recommendations for optimization, alerts, and forecasted resource usage trends.

? Option A (Admin Center LCM) manages firmware and software upgrades but does not generate weekly performance reports.

? Option B (Prism Central Syslog) is used for logging and event tracking, not performance summaries.

? Option C (Infrastructure VMs List) provides a static list of VMs but does not generate periodic reports.

References:

? Nutanix Prism Central Intelligent Operations and Reports

? Nutanix Bible Automated Insights for Cluster Health Monitoring

? Nutanix KB Using Intelligent Operations Reports for Capacity Planning

**NEW QUESTION 27**

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. Entity Chart

C. Hypervisor Performance Chart

D. VM Summary Chart

**Answer:** B

**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:

? Option A (Metric Chart) is incorrect:

? Option C (Hypervisor Performance Chart) is incorrect:

? Option D (VM Summary Chart) is incorrect:

References:

? Nutanix Prism Central Guide Entity vs. Metric Charts for Performance Analysis

? Nutanix KB Creating Custom Charts in Prism Central

**NEW QUESTION 32**

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 33**

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 34**

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 36**

A Disaster Recovery administrator has set up a Protection Policy for 50 workloads, all configured similarly.

The RPO is 60 minutes with a specified retention of 10 local copies, 5 remote copies, and crash consistency.

After activation, recovery points are not appearing at the DR site, even though they are

visible on the production side. What is the most likely issue?

A. Nutanix Guest Tools (NGT) is not installed on the source VMs.

B. Windows updates need to be applied to all affected VMs.

C. The storage container name on the DR cluster does not match the production cluster.

D. The storage container RF factor does not match in both clusters.

**Answer:** C

**Explanation:**

For Disaster Recovery to function correctly, the source and destination storage containers must have identical names.

? Option C (Storage container name mismatch) is correct:

? Option A (NGT not installed) is incorrect:

? Option B (Windows updates) is incorrect:

? Option D (Storage RF factor mismatch) is incorrect:

References:

? Nutanix Disaster Recovery Guide Requirements for Remote Replication

? Nutanix KB Storage Container Mapping for Protection Domains

**NEW QUESTION 40**

What is supported for creating a VM Template in Nutanix?

A. VM is protected by Protection Domain-based DR.

B. VM is an agent or a Prism Central VM.

C. VM has disks located on RF2 containers.

D. VM runs on the ESXi hypervisor.

**Answer:** C

**Explanation:**

VM templates in Nutanix are supported only when the VM's disks reside on storage containers configured with Replication Factor 2 (RF2) or higher.

? Option C (VM has disks on RF2 containers) is correct:

? Option A is incorrect:

? Option B is incorrect:

? Option D is incorrect:

References:

? Nutanix VM Management GuideCreating and Managing VM Templates  
? Nutanix KBStorage Requirements for VM Templates

#### NEW QUESTION 41

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

#### NEW QUESTION 43

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