

# NCM-MCI-5.15<sup>Q&As</sup>

Nutanix Certified Master - Multicloud Infrastructure (NCM-MCI) 5.15

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**QUESTION 1**

Refer to the exhibit.

**Constrained VM**

**Constrained VM** is one that does not have enough resources for the demand and can lead to performance bottlenecks. A VM is considered constrained when it exhibits one or more of the following baseline values, based on the past 30 days:

- CPU usage > 90% (moderate), 95% (high)
- CPU ready time > 5% , 10%
- Memory usage > 90%, 95%
- Memory swap rate > 0 Kbps (no moderate value)

The screenshot displays the 'Authentication Configuration' interface. At the top, there are three tabs: 'Directory List' (which is selected and underlined), 'Authentication Types', and 'Client'. Below the tabs, the 'Directory List' section contains several configuration fields:

- Directory Type:** A dropdown menu set to 'Active Directory'.
- Name:** A text input field containing 'Corp'.
- Domain:** A text input field containing 'corp.yourcompany.com'.
- Directory URL:** A text input field containing 'ldaps://corp.yourcompany.com:389'.
- Search Type:** A dropdown menu with a help icon (?) set to 'Non Recursive (Default)'.

An administrator configures Active Directory authentication as shown in the exhibit. Upon finishing setup, users are not

able to log in. What configuration change should be made to fix this issue?

- A. Change leaps to https
- B. Change the Directory URL to use an IP rather than a name
- C. Change the plct from 389 to 636
- D. Change the Domain to use an IP rather than a name

Correct Answer: C

Explanation: Ref: <https://portal.nutanix.com/page/documents/details?targetId=Prism-Central-Guide-Prism-v510:mul-security-authentication-pc-t.html>

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## QUESTION 2

An administrator manages the following two Nutanix AOS 5.15 cluster environment:

Corp-cluster-01

Corp-cluster-02

The VM images must be available only on Corp-cluster-01, but cannot be checked out to cluster Corp-cluster-02. The images also cannot be checked out to any other clusters that are registered with Prism Central in the future.

Which two configuration settings must the administrator choose when creating the image placement policy that satisfies the stated requirements? (Choose two.)

- A. Create an image placement policy that identifies cluster Corp-cluster-01 as the target cluster
- B. Set the policy enforcement to Soft.
- C. Set the policy enforcement to Hard.
- D. Create an image placement policy that identifies cluster Corp-cluster-02 as the target cluster.

Correct Answer: AC

Explanation: Ref: <https://next.nutanix.com/community-blog-40/nutanix-just-made-ahv-image-management-painless-33144>

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## QUESTION 3

An administrator needs to evaluate if the existing configuration of Protection Domains meets the specified corporate recovery policy for SQL Data. The corporate policy requires that all SQL Servers be recoverable at the DR site within 30 minutes, and must result in a maximum of 60 minutes of data loss. SQL data must be required.

The protection domain is configured as follows:

Application consistent snapshots are enabled The SQL server VMs are assigned to the Protection Domain as their own Consistency Group The Protection Domain schedule is configured as snapshots taken every 90 minutes from 7 am until 8 pm

What must be changed to meet the required policy?

- A. Revise the schedule to be 15 minutes
- B. Revise the schedule to be 60 minutes
- C. Revise the schedule to be 30 minutes
- D. Revise the schedule to be 45 minutes

Correct Answer: B

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#### QUESTION 4

A customer has a primary datacenter with 12 Nutanix blocks distributed across three racks. The customer wants to achieve the most resiliency possible. They also have a datacenter in a branch office that is 400 kilometers away from the primary datacenter.

Which two solutions should be used? (Choose two.)

- A. Time Stream to a remote site
- B. Async DR to a remote site
- C. Rack awareness
- D. Block awareness

Correct Answer: BC

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#### QUESTION 5

An administrator is configuring an All Flash cluster to support the following workloads:

Full clone virtual desktops

Hadoop

Write heavy databases

Which three correct configuration options should the administrator use to meet the item requirements? (Choose three.)

For each procedure, indicate whether it is a correct or incorrect procedure that must be configured to meet the item requirements using the drop-down option.

Hot Area:

### Procedure

One container with compression and deduplication enabled for full clone virtual desktops

[Redacted]

One container with compression and Erasure Coding enabled for Hadoop

[Redacted]

One container with compression enabled for heavy databases

[Redacted]

One container with deduplication enabled for full clone virtual desktops

[Redacted]

One container with Erasure Coding enabled for Hadoop

[Redacted]

One container with deduplication enabled for Hadoop

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Correct Answer:

**Procedure**

One container with compression and deduplication enabled for full clone virtual desktops

[Redacted]

One container with compression and Erasure Coding enabled for Hadoop

[Redacted]

One container with compression enabled for heavy databases

[Redacted]

One container with deduplication enabled for full clone virtual desktops

[Redacted]

One container with Erasure Coding enabled for Hadoop

[Redacted]

One container with deduplication enabled for Hadoop

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Use Case	Example	Recommendation
User data	File server, user data vDisk	Post-process compression with 4–6 hour delay
VDI	VMware View, Citrix XenDesktop	VCAI snapshots, linked clones, full clones with inline deduplication No compression
Data processing	Hadoop, data analytics, data warehousing	Inline Compression
Transactional applications	Exchange, Active Directory, SQL Server, Oracle	Native application compression where available, otherwise inline compression
Archive or backup	Handy Backup, SyncBack	Inline compression unless data is already compressed

**QUESTION 6**

An administrator configures authentication in Prism Central (PC) for the NTNX-Admins group. Users report that they are unable to log in. The administrator confirms that the Active Directory (AD) settings in PC are correct. Which condition could result in this behavior?

- A. A role mapping needs to be associated with the AD group.
- B. The users must be added to the Domain Admins AD group.
- C. The Local authentication type must also be selected in PC.
- D. A client chap certificate must also be added in PC.

Correct Answer: B

Explanation: Ref: [https://portal.nutanix.com/page/documents/details?targetId=Prism-Central-Guide-Prism-v5\\_10:mul-security-role-permissions-pc-t.html](https://portal.nutanix.com/page/documents/details?targetId=Prism-Central-Guide-Prism-v5_10:mul-security-role-permissions-pc-t.html)

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**QUESTION 7**

A CEO asks the IT administrator to provide a list of required resources to protect current workloads and the two new SQL servers from a disaster. The Nutanix environment is managed by Prism Central. Which option explains how to meet the CEO's request?

- A. In Capacity Runway, select Optimize Resources and select all VMs that must be protected.
- B. Create a new project and assign the VMs to it to get compute and storage requirements.
- C. Create a new scenario based on a new cluster based on a VM Profile and select Recommend.
- D. Create a new Recovery policy by selecting the VM that needs to be protected and get hardware requirements.

Correct Answer: D

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**QUESTION 8**

Microsegmentation was recently enabled in a Nutanix environment. The administrator wants to leverage Prism Central to create a policy that will block all traffic, regardless of direction, between two groups of VMs identified by their category. Which policy should be used to meet this requirement?

- A. A Quarantine Policy
- B. An Isolation Environment Policy
- C. An Application Security Policy
- D. A Whitehst-Based Policy

Correct Answer: B

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**QUESTION 9**

A customer has NearSync configured. When the administrator tries to restore a snapshot from 3 minutes ago, it is not available. The snapshots are happening at 15-minute intervals instead of at the 5-minute configured interval. When the protection domain was initially set up, the snapshots were happening at the expected 5-minute interval.

What should the customer do to enable the snapshots to happen at the expected interval?

- A. Utilize Metro Availability to meet this requirement
- B. Change the protection domain to use Async DR
- C. Fix a connectivity issue because the protection domain reverted to Async
- D. Configure the protection domain to take snapshots on 15-minute intervals

Correct Answer: C

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**QUESTION 10**

An administrator receives a notification that storage in a Nutanix cluster is unavailable. The cluster consists of five nodes and is configured with a Fault-Tolerance level of 1 (FT-1).

Upon investigation, the administrator finds the following:

All AHV hosts are powered on and the CVMs are running. Nodes A, B, and C are connected to one top of rack switch. Nodes D and E are connected to a second top of rack switch. The cluster status command run on Node A shows that CVM services on nodes D and E are down.

Which issue is causing the storage outage?

- A. The default gateway for the CVMs and AHV hosts is down.
- B. The switch connecting Nodes D and E is down.
- C. The genesis process is down on both Nodes D and E.
- D. Nodes D and E are in maintenance mode.

Correct Answer: B

Explanation: <https://hyperhci.com/2020/07/29/nutanix-cluster-services-down- troubleshooting/>

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**QUESTION 11**

An organization is planning an upgrade to AOS 5.15 and wants to understand which cluster products and/or services are supported for physical traffic isolation. Which Nutanix component supports its network traffic being isolated onto its own virtual network?

- A. Volumes



B. Objects

C. Containers

D. Files

Correct Answer: A

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#### QUESTION 12

An administrator is supporting a business critical environment and deploys metro availability to achieve a zero data loss configuration. The two clusters are connected by a 1GbE connection. A new workload is going to be deployed to this cluster. This workload requires a sustained 150MB/S of write throughput and 20MB/s of read throughput. Which change must be made to deploy the workload successfully on this cluster?

A. The bandwidth must be increased to support this workload.

B. The workload must be configured to read at greater than 12.5MB/S.

C. The replication frequency must be less than 60 minutes.

D. Zero data loss nearsync must be used to support this workload.

Correct Answer: A

Explanation: Ref:

### 6.3. Nutanix Recommendations

- Redundant remote replication links between clusters.
  - Similar performance characteristics between the clusters used for Metro Availability:
    - Similar number of nodes.
    - Similar server memory configuration.
    - Similarly sized oplog.
    - Similar drive count for cplg draining to the extent store.
  - Adequate bandwidth to support peak write workloads.
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#### QUESTION 13

An administrator needs to create and start five new VMs for a Data Analytics Project (OLAP). The VM Profile is as follows:

vCPU:4 vRAM: 64 GB vDisk: 1.5 TB

Each of the four nodes of the Nutanix cluster has the following:

24 vCPU. 20% overall usage 192 GB RAM, 60% overall usage 2x1920GBSSD 4x 2 TB HDD

At cluster level, there is a single RF2 container that is 30% utilized and has an extent store capacity of 13.5 TB.

Which component requires administrator attention?

- A. Physical RAM, because it is not enough to power on all of the new VMs.
- B. Physical Cores, because they are not enough to power on all of the new VMs.
- C. Storage, because the capacity is not enough to create VMs.
- D. Flash Tier because it is not enough to accommodate the workloads.

Correct Answer: A

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## QUESTION 14

A VM does not have enough resources for the demand, which leads to performance bottlenecks. The VM is exhibiting one or more of following baseline values, based on the past 30 days:

CPU usage>; 90% (moderate), 95% (high)

CPU ready time>; 5%, 10%

Memory usage>; 90%, 95%

Memory swap rate>; 0 Kbps (no moderate value)

Which type of VM is being described?

- A. Constrained VM
- B. Bully VM
- C. Inactive VM
- D. Over-provisioned VM

Correct Answer: A

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## QUESTION 15

An administrator is monitoring the Nutanix v5.15-based AOS cluster performance logs and notices that a SQL server VM is greatly exceeding its intended maximum IOPS. The administrator has confirmed that a QoS policy was previously created for the group of VMs this server is a member of.

What are two reasons that this VM would exceed its maximum configured IOPS from the QoS Policy? (Choose two.)

- A. The VM is missing the required snapshot needed to implement the QoS Policy.

- B. The VM was not created as an AFS virtual machine.
- C. The SQL Server VM has volume groups attached.
- D. It was cloned from another SQL Server VM that was a member of the QoS Policy.

Correct Answer: BC

Explanation: Ref: [https://portal.nutanix.com/page/documents/details?targetId=Prism-Central-Guide-Prism-v5\\_18:mul-storage-qos-pc-c.html](https://portal.nutanix.com/page/documents/details?targetId=Prism-Central-Guide-Prism-v5_18:mul-storage-qos-pc-c.html)

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