



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

Nutanix Certified Master - Multicloud Infrastructure

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### QUESTION 1

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 2

Over the period of 2 to 3 weeks, a cluster displays the following:

1.  
Periods where Warning Alerts of memory usage over 75% are asserted
2.  
Periods where Critical Warnings of memory usage over 90% are asserted
3.  
Periods of slow or frozen VDI desktops have caused work stoppage or slowdown
4.  
VDI clones have periodically not powered up when called, causing work stoppage Which steps should be used to prioritize the administrator's troubleshooting efforts?

- A. 1. Assess resource health on Hardware page
- 2.  
Review the Analysis page for memory usage demand
- 3.  
Determine the VDI workload-to-host affinity across the cluster
- B. 1. Analyze Alert Pages for a root cause of memory problem
- 2.  
Analyze VM table page to access the VM functionality



3.

Analyze the VDI Clone properties for possible VDI Workload stress

C. 1. Check Analysis page for CPU demand

2.

Verify VDI workload property for memory subscription

3.

Review the Hardware page to determine if the cluster has sufficient RAM

D. 1. Review Analysis Page for memory use pattern

2.

Alert with VDI workload demand

3.

Analyze current and future workload in the Capacity Runaway tab for sufficient resources

Correct Answer: D

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### QUESTION 3

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 4

A company needs to replicate their VMs to a remote site and must have an RPO of less than 1 hour. When creating a protection domain, what should an administrator do to meet this requirement?

A. Enable Async Replication with an RPO of 60 minutes



- B. Enable Near-Sync Replication with an RPO of 15 minutes
- C. Enable Entity Sync on the designated VMs
- D. Enable Availability Zones and send the VM to multiple targets

Correct Answer: A

Ref: [https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v5\\_10:sto-pd-guidelines-r.html](https://portal.nutanix.com/page/documents/details?targetId=Web-Console-Guide-Prism-v5_10:sto-pd-guidelines-r.html)

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## QUESTION 5

### HOTSPOT

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

1.

Full clone virtual desktops

2.

Hadoop

3.

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:



## Answer Area

### Procedure

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

### Correct/Incorrect

	▼
Correct	
Incorrect	

One container with compression and Erasure Coding enabled for Hadoop

	▼
Correct	
Incorrect	

One container with compression enabled for heavy databases

	▼
Correct	
Incorrect	

One container with deduplication enabled for full clone virtual desktops

	▼
Correct	
Incorrect	

One container with Erasure Coding enabled for Hadoop

	▼
Correct	
Incorrect	

One container with deduplication enabled for Hadoop

	▼
Correct	
Incorrect	

Correct Answer:



## Answer Area

### Procedure

### Correct/Incorrect

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

	▼
Correct	
Incorrect	

One container with compression and Erasure Coding enabled for Hadoop

	▼
Correct	
Incorrect	

One container with compression enabled for heavy databases

	▼
Correct	
Incorrect	

One container with deduplication enabled for full clone virtual desktops

	▼
Correct	
Incorrect	

One container with Erasure Coding enabled for Hadoop

	▼
Correct	
Incorrect	

One container with deduplication enabled for Hadoop

	▼
Correct	
Incorrect	

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### QUESTION 6

A new Nutanix cluster is ready for production on a remote site with no IT staff. Changes to the infrastructure will cost money and probably cause a cluster stop. The administrator needs to perform a health check on the environment that should include:

1.

Network connectivity checks

2.



Network performance status

3.

Storage performance status

Which tool should be used to perform this test?

A. X-Ray

B. clurator\_cli

C. NCC

D. diagnostic, py

Correct Answer: C

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#### QUESTION 7

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:

1.

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

2.

CPU ready time>; 5%, 10%

3.

Memory usage>; 90%, 95%

4.

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 8**

An administrator is planning to deploy a Nutanix cluster to support a few high-performance VMs. This deployment will have the following considerations:

1.

Individual VMs will likely generate network throughputs in the range of 90-100Mbps

2.

Due to the configuration of the VMs, it is unlikely that a node will host more than one or two of them at a time

3.

Individual VMs will communicate with only a few (one or two) remote hosts at a time

4.

Multicast will not be used in the environment

5.

The hosts are connected via two 1GbE network connections

How should the administrator configure the network bonds to meet this requirement while maintaining the simplest switch configuration?

A. Configure bond0 as balance-sib

B. Configure bond0 as active-backup

C. Configure bond0 as balance-tcp

D. Configure bond0 as balance-lacp

Correct Answer: B

Ref: [https://portal.nutanix.com/page/documents/solutions/details?targetId=BP-2071-AHV-Networking:top\\_ahv\\_networking\\_best\\_practices.html](https://portal.nutanix.com/page/documents/solutions/details?targetId=BP-2071-AHV-Networking:top_ahv_networking_best_practices.html)

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**QUESTION 9**

An administrator has a custom backup application that requires a 2TB disk and runs in Windows. Throughput is considerably lower than expected. The application was installed on a VM with the following configuration:

1.

Four vCPUs with one core/vCPU

2.

4GB of Memory

3.





One 50GB vDisk for the Windows installation

4.

One 2TB vDisk for the application

What is the recommended configuration change to improve throughput?

- A. Increase the number of cores per vCPU
- B. Increase the vCPUs assigned to the VM
- C. Span the 2TB disk across four vDisks
- D. Add 4GB of memory to the VM

Correct Answer: B

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#### QUESTION 10

An administrator has an existing Nutanix seven-node cluster running at RF2 that must be changed to have the following capabilities:

1.

RF3 set for the cluster

2.

Performance tier deduplication

What is the minimum memory needed on the CVMs to allow for these capabilities?

- A. 24GB
- B. 28GB
- C. 32GB
- D. 20G?

Correct Answer: B

Ref: [https://next.nutanix.com/how-it-works-22/rf2-rf3-requirements-37206#:~:text=Controller%20VMs%20must%20be%20configured,for%20the%20feature\)%20of%20memory.](https://next.nutanix.com/how-it-works-22/rf2-rf3-requirements-37206#:~:text=Controller%20VMs%20must%20be%20configured,for%20the%20feature)%20of%20memory.)

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#### QUESTION 11

An administrator is notified that a bare metal database server is down. This database server is being served storage using a Nutanix Volume Group. Upon investigating, the administrator finds that the disks in the database server that map to the vDisks in the volume group have gone offline.



What is causing this issue?

- A. The Volume Group Load Balancer has been disabled.
- B. Port 9443 is blocked in the server firewall.
- C. Port 3260 has been blocked in the server firewall.
- D. A CVM serving the Volume Group has gone offline.

Correct Answer: D

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## QUESTION 12

An administrator is deploying a three-tier application on a Nutanix Enterprise Cloud consisting of web, application, and database VMs. Traffic between the servers must be limited to specific services/ports. There is an application layer firewall VM deployed on one host in the cluster.

In which way should the administrator meet this requirement?

- A. Create a network for each type of VM, and use policy-based routing to control the traffic flow
- B. Configure a security policy and service chain redirecting the server traffic through the firewall
- C. Separate the web, application and database VMs on to dedicated VLANs
- D. Categorize the VMs in Prism Central and utilize Flow to set a security policy

Correct Answer: D

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## QUESTION 13

### HOTSPOT

A system administrator needs to shut down an AHV node in a Nutanix cluster without causing service disruption. The administrator checks data resiliency and verifies that the cluster can tolerate a node down. Which three steps should the administrator perform next? (Choose three.)

Hot Area:

**Procedure****Step**

Put the host in maintenance mode

Step 1 ▼

Step 2 ▼

Step 3 ▼

Invalid Step ▼

Shut down the CVM

Step 1 ▼

Step 2 ▼

Step 3 ▼

Invalid Step ▼

Shut down the node

Step 1 ▼

Step 2 ▼

Step 3 ▼

Invalid Step ▼

Power off the node

Step 1 ▼

Step 2 ▼

Step 3 ▼

Invalid Step ▼

Allow VMs to start on the remaining nodes

Step 1 ▼

Step 2 ▼

Step 3 ▼

Invalid Step ▼



Correct Answer:

1 allow vms 2 sd CVM 3 sd node

**Procedure**

Put the host in maintenance mode

**Step**

Step 1 ▼

Step 2 ▼

Step 3 ▼

Invalid Step ▼

Shut down the CVM

Step 1 ▼

Step 2 ▼

Step 3 ▼

Invalid Step ▼

Shut down the node

Step 1 ▼

Step 2 ▼

Step 3 ▼

Invalid Step ▼

Power off the node

Step 1 ▼

Step 2 ▼

Step 3 ▼

Invalid Step ▼

Allow VMs to start on the remaining nodes

Step 1 ▼

Step 2 ▼

Step 3 ▼

Invalid Step ▼

**QUESTION 14**

An administrator inherits a new Nutanix environment and logs in to a CVM to check the network configuration. The configuration is as follows:

```
nutanix@NTNX-16xxxxxxxxx5-A-CVM:xx.xx.xx.76:~$ manage_ovs show_uplinks
Bridge: br0
  Bond: br0-up
    bond_mode: active-backup
    interfaces: eth3 eth2
    lacp: off
    lacp-fallback: True
    lacp_speed: slow
Bridge: br1
  Bond: eth0
    bond_mode: active-backup
    interfaces: eth0
    lacp: off
    lacp-fallback: false
    lacp_speed: slow
Bridge: br2
Bridge: br5

nutanix@NTNX-16xxxxxxxxx5-A-CVM:xx.xx.xx.76:~$ manage_ovs show_interfaces
name  mode  link  speed
eth0   1000  True   1000
eth1   1000  True   1000
eth2  10000  True  10000
eth3  10000  True  10000
:      :      :
nutanix@NTNX-16xxxxxxxxx5-A-CVM:xx.xx.xx.76:~$
```

Which action should the administrator take to improve network performance?

- A. Configure VLAN tagging both on br0 and br1 and their physical interfaces.
- B. Add eth0 and eth1 to the br0-up bond
- C. Configure balance-sib or balance-tcp mode for br0-up if switch configuration allows
- D. Remove one 10 Gbs interface from br0-up to make sure all 10 Gbs can be used.

Correct Answer: D

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**QUESTION 15**

A VDI environment based on AHV Cluster is not performing well. The current environment is using only one bridge (Bridge0). The administrator needs to verify if nodes are using all network cards associated to Bridge0. Which two menus should be used to check the current configuration? (Choose two.)



- A. Network Configuration item in Settings menu
- B. Host view in Network menu
- C. Host NICs tab in Hardware menu
- D. I/O Metrics tab in VM menu

Correct Answer: BC

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