



**Free Questions for NCS-Core by certsdeals**

**Shared by Abbott on 09-08-2024**

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# Question 1

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**Question Type:** MultipleChoice

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A consultant installs a new AHV cluster and moves the cluster into the customer's environment. After the move, the consultants notice that traffic is not being balanced across the physical NICs. The ToR switches have been configured with LACP.

Within Prism Element, which AHV network option should be set to resolve the issue?

## Options:

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- A- Active-Backup
- B- Active-Active
- C- No Uplink Bond
- D- Active-Active with MAC Pinning

## Answer:

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B

## Explanation:

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In a situation where traffic is not being balanced across the physical NICs and the Top-of-Rack (ToR) switches have been configured with LACP (Link Aggregation Control Protocol), the appropriate AHV network configuration to resolve this issue within Prism Element is 'Active-Active.' This setting enables both NICs to actively handle traffic, which, combined with LACP, allows for load balancing and redundancy, effectively utilizing all available network paths. This setup ensures that traffic is spread evenly across the physical NICs, maximizing network throughput and resilience.

[Nutanix Prism User Guide](#)

[Nutanix AHV Administration Guide](#)

In a scenario where a new AHV cluster is installed and the traffic is not being balanced across the physical NICs despite the ToR switches being configured with LACP, the appropriate network option to set within Prism Element is Active-Active. This configuration allows for a traffic-hashing algorithm, such as balance-TCP, to split traffic between multiple links in an active-active fashion. Since the uplinks appear as a single L2 link, the algorithm can balance the traffic among bond members without any regard for switch MAC address tables<sup>1</sup>.

[Nutanix Community: AHV Networking | Enable, Disable and Verify LACP<sup>1</sup>](#)

[Nutanix Support & Insights: Layer 2 Network Management<sup>2</sup>](#)

[Nutanix Support & Insights: Enabling LAG and LACP on the ToR Switch \(AHV Only\)](#)

## Question 2

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**Question Type: MultipleChoice**

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During which part of the Knowledge Transfer does the customer learn about Nutanix basics and their environment at a high level?

**Options:**

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- A- Technical Checklist
- B- Technical Handoff Slides
- C- Support portal
- D- As-Built Guide

**Answer:**

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B

**Explanation:**

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During the Knowledge Transfer phase, customers typically learn about Nutanix basics and their specific environment at a high level through 'Technical Handoff Slides.' This part of the training and handover process provides a broad overview of the installed solution, how it operates, and how it interacts with the existing infrastructure, making it essential for foundational understanding. Reference: Nutanix Bible, Nutanix University NCS-Core 6.8 learning materials

## Question 3

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**Question Type:** MultipleChoice

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A consultant needs to upgrade the ESXi hosts on a Nutanix cluster from version 6.7 to 7.0. vSphere DRS and wMoton are working properly. The consultant needs to use One-Click Upgrade.

Which setting should be verified by the consultant?

### Options:

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- A- vSphere HA is enabled.
- B- Nutanix Prism HA is enabled.
- C- vSphere DRS Automation level is set to Conservative.
- D- DRS automation level on all CVMs is disabled.

### Answer:

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A

### Explanation:

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When upgrading ESXi hosts on a Nutanix cluster using One-Click Upgrade, it is crucial to verify that vSphere HA (High Availability) is enabled. This setting ensures that in the event of host failure during the upgrade process, VMs will be automatically restarted on other hosts in the cluster, maintaining availability and minimizing disruption. Verifying this setting is essential to ensure the resilience of the environment during the upgrade.

VMware vSphere Upgrade Documentation

Nutanix Upgrade Guide

## Question 4

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**Question Type: MultipleChoice**

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A consultant is running Foundation discovery with Foundation VM and is unable to dynamically discover the nodes. The consumer needs another method to image the nodes.

What information does the consultant need to do bare metal Foundation?

**Options:**

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**A-** Serial # of Block

- B-** IPMI MAC Address
- C-** LAN MAC Address
- D-** Serial # of Node

**Answer:**

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B

**Explanation:**

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When using the Foundation tool for bare metal imaging of Nutanix nodes and dynamic discovery is not possible, the consultant needs the IPMI MAC Address of the nodes. This address is used to identify each node uniquely through its IPMI for remote management purposes, allowing the Foundation VM to interact directly with each node's base management controller (BMC) for the imaging process. Reference: Nutanix Bible, Nutanix University NCS-Core 6.8 learning materials

## Question 5

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**Question Type:** MultipleChoice

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A customer has HE servers with DiscoverOS and wants to install a Nutanix cluster.

Which method should a consultant use to meet the requirements?

**Options:**

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- A- Manually create the cluster.
- B- Create the cluster using CVM Foundation.
- C- Image the bare metal nodes.
- D- Create the cluster using Crash cart.

**Answer:**

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C

**Explanation:**

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When installing a Nutanix cluster on hardware servers pre-loaded with an existing operating system such as DiscoverOS, the best approach is to re-image the bare metal nodes. This process involves using the Nutanix Foundation tool to install the required Nutanix software (such as AOS and Hypervisor) onto the nodes, replacing any pre-existing software. This ensures that the hardware is properly configured and optimized for the Nutanix environment. Reference:

Nutanix University - NCS-Core 6.8 Learning Path

[The Nutanix Bible, Foundation chapter \(https://www.nutanixbible.com/\)](https://www.nutanixbible.com/)



## Question 6

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**Question Type:** MultipleChoice

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A consultant successfully creates a Nutanix cluster. The consultant needs to configure containers for the customers business critical applications and general server workloads. The customer requirements are to achieve maximum storage space savings and optimize I/O performance.

What setting(s) should the consultant enable on the storage container(s)?

### Options:

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- A- Compression and deduplication
- B- Deduplication only
- C- Compression and erasure coding
- D- Compression only

### Answer:

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C

## Explanation:

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To meet the requirements of maximizing storage space savings while optimizing I/O performance for business-critical applications and general server workloads, enabling both compression and erasure coding on the storage containers is recommended. Compression reduces the data footprint on storage disks, while erasure coding provides data redundancy in an efficient manner, which not only saves space but also enhances data durability and I/O performance for read-intensive applications. Reference:

Nutanix University - NCS-Core 6.8 Learning Path

[The Nutanix Bible, Storage Efficiency chapter \(https://www.nutanixbible.com/\)](https://www.nutanixbible.com/)

## Question 7

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**Question Type:** MultipleChoice

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For a new AHV cluster installation, a customer has 20 NX-8155 nodes with quad port NICs. The customer wants to meet the following guidelines:

Take advantage of all available 10G links

Achieve maximum throughput per VM

Use of redundant ToR switches

Fastest reconvergence during link failure

How should the load balancing be configured on the host?

### Options:

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- A-** In Prism Element, update the virtual switch uplink configuration to Active-Active with MAC pinning.
- B-** In Prism Element, update the virtual switch uplink configuration to Active-Active.
- C-** Use CLI to add the interfaces to bridge br0 on all hosts.
- D-** Use CLI to configure Balance-TCP on bridge br0.

### Answer:

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D

### Explanation:

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For a configuration that aims to utilize all available 10G links, achieve maximum throughput per VM, and ensure redundancy with fast reconvergence during link failure, the optimal setting would be to configure Balance-TCP on bridge br0. This setting distributes the load across all available network paths based on the TCP session, maximizing the utilization of network interfaces and ensuring redundancy. This approach is particularly effective in environments with multiple network paths and ensures efficient network traffic management.

Reference:

## Question 8

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**Question Type:** MultipleChoice

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Which Nutanix tool does the Field Installation Guide provide instructions for?

**Options:**

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- A- Prism Central
- B- Foundation
- C- As-Built Generator
- D- Nutanix Move

**Answer:**

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B

## **Explanation:**

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The Nutanix Field Installation Guide primarily provides instructions for using Foundation. Foundation is the tool used for deploying, imaging, and configuring Nutanix nodes in a new installation or when expanding existing clusters. This tool is essential for setting up the Nutanix environment correctly and efficiently. Reference:

Nutanix University - NCS-Core 6.8 Learning Path

[The Nutanix Bible, Foundation chapter \(https://www.nutanixbible.com/\)](https://www.nutanixbible.com/)

## **Question 9**

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**Question Type:** MultipleChoice

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A new Nutanix customer suspects that network traffic is going over the 1G interfaces instead of the 10G interfaces.

How should a consultant confirm that the traffic is only traversing the 10G interfaces?

**Options:**

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- A- Look in Prism Element under Network.
- B- Run the `allssh manage_ovs show interfaces` command.
- C- Run the `iconfig` command on the CLI of each CVM.
- D- Run the `allssh manage ovs show uplinks` command.

### Answer:

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B

### Explanation:

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To confirm that network traffic is traversing the 10G interfaces and not the 1G interfaces in a Nutanix environment, the consultant should run the `allssh manage_ovs show interfaces` command. This command allows for the inspection of all interface configurations and their current operational status across the cluster, effectively confirming which interfaces are actively managing traffic. Reference: Nutanix Bible, Nutanix University NCS-Core 6.8 learning materials

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