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Question 1

A consultant needs to image nodes that cannot be discovered with the Foundation VM

The nodes are connected to a flat stitch and

are already part of a Nutanix cluster.

What course of action would result in Foundation success?

Options:

A- Use the customer's top of rack switch.

B- Buy a new flat switch.

C- Bare metal image the nodes.

**D-** Change the physical connections.

Answer:

C

Explanation:

If nodes cannot be discovered using the Foundation VM and they are already part of a Nutanix cluster, the best course of action is to bare metal image the nodes. This process involves re-imaging the nodes from scratch, which can resolve discovery and communication issues that may be caused by existing configurations or errors within the cluster's networking setup. Reference: Nutanix Bible, Nutanix University NCS-Core 6.8 learning materials

Question 2
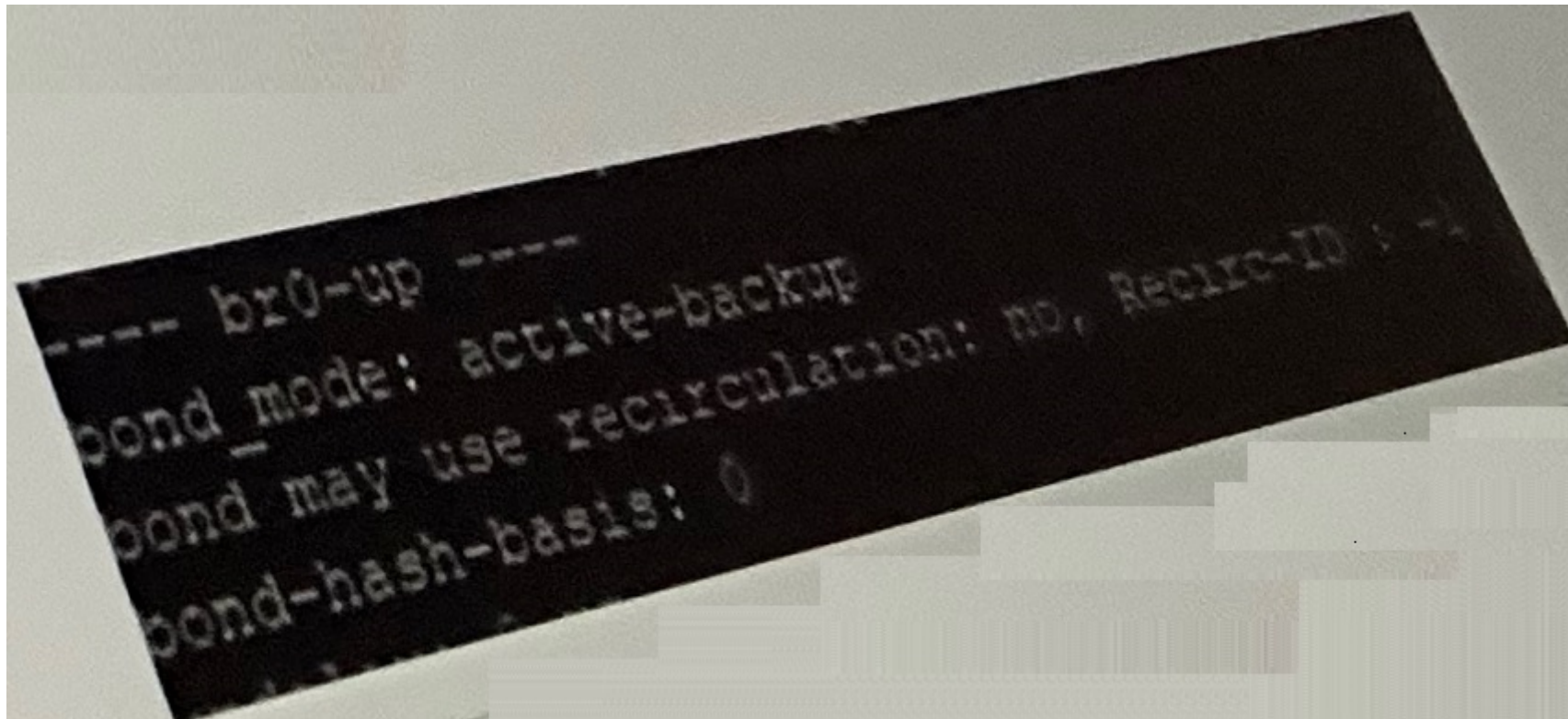
Question Type: **MultipleChoice**

Refer to the exhibit.
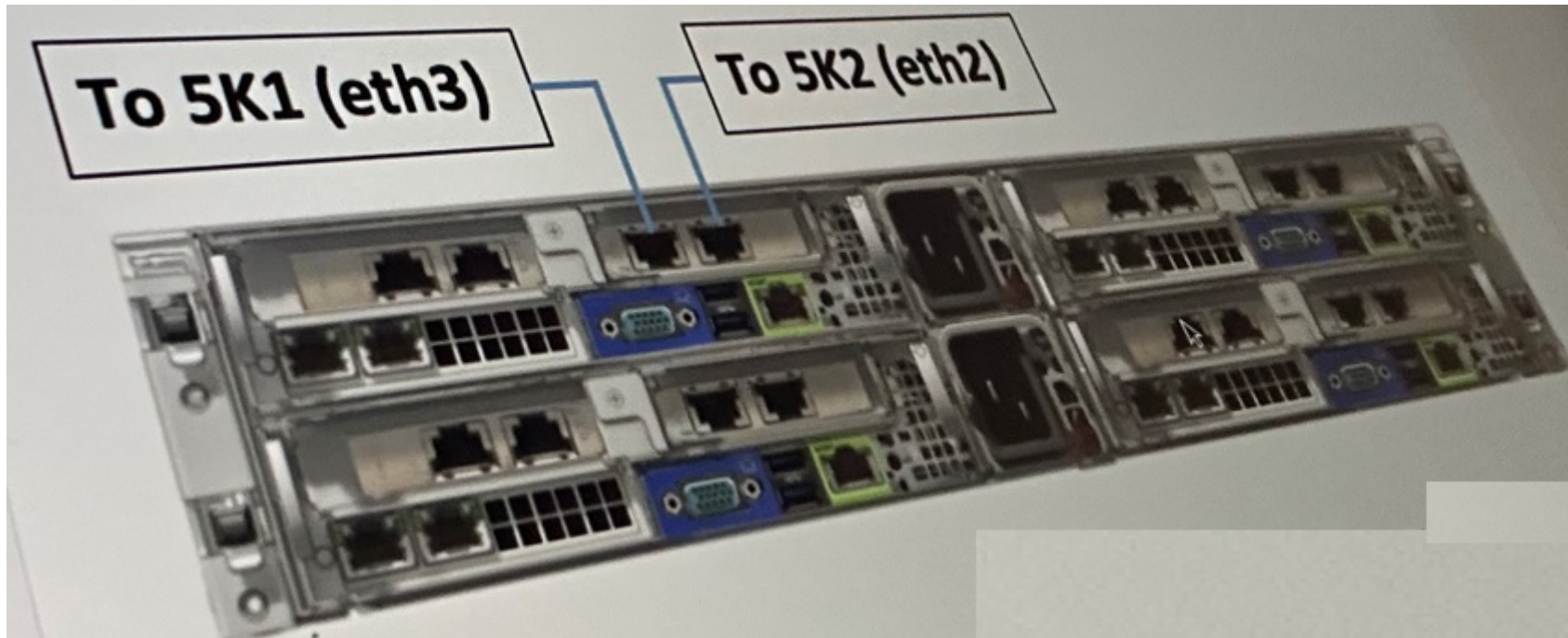
On a four-node NX-3460 cluster, two 10G NiCs are connected to redundant Cisco ToR 5K switches as shown in the first exhibit Port On a four-node NX-3460 cluster, two 10G NICs are connected to redundant Cisco TOR Sk switches as shown in the fist exthibt. Port failover must be tested.

The network configuration output from the CVM is shown in the second exhibit. To test fallover, a shut command is executed on the switchport that connects the node to the 5k1 switch.

Refer to the exhibit.

```
---- br0-up ----
bond_mode: active-backup
bond may use recirculation: no, Recirc-ID : -1
bond-hash-basis: 0
```

Options:

A- Active link is disconnected. Passive link takes over.

B- Passive link is disconnected. Active link takes over.

C- Active link takes over. HA Failover takes place.

D- Passive link takes over. HA Failover takes place.

Answer:

A

Explanation:

In the scenario described, the configuration shown in the exhibit indicates that there is an 'active-backup' bond mode. If a shut command is executed on the switchport that connects the node to the 5k1 switch (assuming it's the active link), the passive link should take over. This response ensures no loss of connectivity as the passive link becomes active in the absence of the primary (active) link. Reference: Nutanix Bible, Nutanix University NCS-Core 6.8 learning materials

Question 3

Question Type: **MultipleChoice**

A consultant completes a manual cluster creation of AHV. When the consultant logs into Prism Element, critical error messages appear regarding the hypervisor and NTP.

What component or setting, if misconfigured, would cause these errors?

Options:

A- Cluster name

B- Name Server

C- Cluster Virtual IP

D- Data Services IP

Answer:

B

Explanation:

If the consultant logs into Prism Element and sees critical error messages related to the hypervisor and NTP, this could likely be caused by misconfigured Name Server settings. The Name Server (DNS) is essential for resolving domain names into IP addresses, which are required for NTP operations and overall cluster health checks and communications within the Nutanix environment. Reference: Nutanix Bible, Nutanix University NCS-Core 6.8 learning materials

Question 4

Question Type: MultipleChoice

A customer has a mail server and needs Nutanix to send email notifications about errors that might occur in Prism. The following information is included under SMTP Server Settings

IP Address of mail server

Port Security Mode

From email address

What should the consultant set up before arriving onsite?

Options:

A- SMTP server to allow emails from all IPs in customer network

B- SMTP server to allow emails from Cluster VIP and CVM IP addresses

C- SMTP to allow emails from Cluster VIP

D- SMTP server to allow emails from Host IP addresses

Answer:

B

Explanation:

Before arriving onsite, the consultant should set up the SMTP server to allow emails from both the Cluster Virtual IP Address (VIP) and the Controller Virtual Machine (CVM) IP addresses. This setup ensures that Prism can successfully send email notifications through the customer's mail server about any errors or notifications generated by the Nutanix environment, as both the Cluster VIP and CVM IPs are sources from which Prism sends alerts. Reference: Nutanix Bible, Nutanix University NCS-Core 6.8 learning materials

Question 5

Question Type: **MultipleChoice**

A consultant is discussing VLAN tagging for a newly deployed Nutanix system. The customer requests that the the vlan dor the CVMs

and AHV hosts be placed in the customer's management VLAN 10. The customer also has VLAN 20 for production VM traffic and

VLAN 30 for backup/replication traffic.

Which VLAN should the consultant recommend for CVM and host traffic?

Options:

A- VLAN 10

B- VLAN 0

C- VLAN 20

D- VLAN 20

E- VLAN 30

Answer:

A

Explanation:

For a newly deployed Nutanix system where the customer has specified VLAN 10 for management traffic, the consultant should recommend using VLAN 10 for both CVM and AHV host traffic. This VLAN designation ensures that all management, monitoring, and internal cluster communication are on a dedicated network, separate from production VM traffic (VLAN 20) and backup/replication traffic (VLAN 30), thereby enhancing network security and performance. Reference:

Nutanix University - NCS-Core 6.8 Learning Path

The Nutanix Bible, Network Configuration chapter (https://www.nutanixbible.com/)

Question 6

After a consultant runs a bare metal Foundation, the imaging process fails.

In which two locations can the consultant find the logs? (Choose two.)

Options:

A- On the CVM - /home /nutanix/foundation/logs

B- On the Hypervisor - /home/nutanix/foundation/logs

C- On the Foundation VM - /home/nutanix/foundation/logs

D- View Logs link on the Foundation Imaging progress screen

Answer:

C, D

Explanation:

After a failed bare metal Foundation imaging process, the consultant can find relevant logs in two primary locations: on the Foundation VM at '/home/nutanix/foundation/logs' and via the 'View Logs' link available on the Foundation Imaging progress screen. These logs are crucial for diagnosing issues during the imaging process as they provide detailed error messages and operational data. Reference:

Question 7

Question Type: **MultipleChoice**

Which configuration item is a hard requirement to deploy a Nutanix cluster?

Options:

A- Nutanix cluster name

B- Cluster Virtual IP

C- Motion IP address

D- CVM IP address

Answer:

D

Explanation:

The CVM IP address is a hard requirement for deploying a Nutanix cluster. Each CVM must have a unique IP address assigned to it as this IP address is critical for cluster operations, including data replication, management activities, and communication between CVMs and hypervisors. The other options, while important for various functionalities, do not represent a hard requirement for initial deployment. Reference:

Nutanix University - NCS-Core 6.8 Learning Path

The Nutanix Bible, Cluster Configuration chapter (https://www.nutanixbible.com/)

Question 8

Question Type: **MultipleChoice**

Which subnet is reserved for CVM internal switch traffic?

Options:

A- 192.168.5.0/24

B- 192.168.254.0/24

C- 10.100.5.0/30

D- 172.16.19.0/16

Answer:

B

Explanation:

The subnet 192.168.254.0/24 is commonly reserved for CVM (Controller Virtual Machine) internal switch traffic within Nutanix environments. This subnet is used internally by the CVMs for management and storage operations that are integral to the Nutanix infrastructure. Using a separate, reserved subnet helps to isolate management traffic from general network traffic, enhancing security and performance. Reference:

Nutanix University - NCS-Core 6.8 Learning Path

The Nutanix Bible, Network Configuration chapter (https://www.nutanixbible.com/)

Question 9

A customer has an ESXi cluster with two 10GbE NICs on each node and the following requirements.

Solution must follow Nutanix Best Practices

Network configuration should be redundant

A vSphere Distributed Switch will be utilized

Which load balancing configuration should be used?

Options:

A- Route based on IP hash

B- Route based on source MAC hash

C- Route based on originating port ID

D- Route based on physical NIC load

Answer:

A

Explanation:

For a customer using an ESXi cluster with two 10GbE NICs on each node and a vSphere Distributed Switch, the recommended load balancing configuration, following Nutanix Best Practices for redundancy and efficiency, is 'Route based on IP hash.' This setting allows for optimal utilization of network bandwidth and redundancy by distributing the traffic based on the IP address pairings, ensuring a balanced load across the physical NICs. Reference: Nutanix Bible, Nutanix University NCS-Core 6.8 learning materials