

Dell.D-VXR-OE-23.by.Hiana.37q

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Exam Code: D-VXR-OE-23

Exam Name: Dell VxRail Operate 2023



Exam A

QUESTION 1

A VxRail administrator is adding a node to an existing VxRail Cluster. The node has been racked, cabled and powered on. However, the node is not discovered in the vSphere Client. Which log file should be analyzed to diagnose the issue?

- A. lcm log
- B. marvin.log
- C. loudmouth log
- D. mystic.log

Correct Answer: C

Section:

Explanation:

When adding a node to an existing VxRail Cluster and the node is not discovered in the vSphere Client, the 'loudmouth' log should be analyzed. The loudmouth log is crucial for node discovery as it records the communication and discovery processes between nodes in the VxRail cluster. Analyzing this log can help diagnose issues related to node visibility and network communication.

Dell VxRail Troubleshooting Guide: VxRail Troubleshooting Guide

QUESTION 2

What two failure events cause the vSAN to start rebuilding components immediately on the VxRail system? (Select 2)

- A. Interlace controller
- B. ESXi host
- C. Capacity device
- D. Storage controller

Correct Answer: B, C

Section:

Explanation:

Two failure events that cause vSAN to start rebuilding components immediately on the VxRail system are:

ESXi host failure

Capacity device failure

When an ESXi host fails, vSAN detects the loss of the host and initiates the rebuilding of the affected components to maintain data availability and integrity. Similarly, when a capacity device (such as an SSD or HDD) fails, vSAN starts the rebuild process to ensure that data remains protected and accessible.

VMware vSAN Failure Handling: vSAN Failure Handling

QUESTION 3

What is the maximum number of remote vSAN data stores a client cluster can mount using vSAN HCI Mesh?

- A. 3
- B. 4
- C. 5
- D. 6

Correct Answer: D

Section:

Explanation:

The maximum number of remote vSAN data stores a client cluster can mount using vSAN HCI Mesh is 6. VMware vSAN HCI Mesh allows for the mounting of remote vSAN datastores to provide flexible storage solutions and scalability. This feature enables multiple clusters to share storage resources efficiently.

VMware vSAN HCI Mesh Documentation

Dell VxRail Technical Guide

QUESTION 4

An environment has two VxRail Clusters with the following configuration

* Cluster-A is using FTT = 2 and FTM = Erasure Coding

* Cluster-B is using FTT = 2 and FTM = Mirroring

A 100 GB VM is planned to be vMotioned from Cluster-A to Cluster-B. How much more vSAN capacity is consumed in Cluster-B than in Cluster-A?

- A. 100 GB
- B. 167 GB
- C. 150 GB
- D. 0 GB

Correct Answer: B

Section:

Explanation:

To calculate the additional vSAN capacity consumed when a 100 GB VM is vMotioned from Cluster-A to Cluster-B, consider the following:

Cluster-A: FTT = 2 and FTM = Erasure Coding (RAID 6), which uses approximately 1.5 times the data size, thus 100 GB VM uses about 150 GB of vSAN capacity.

Cluster-B: FTT = 2 and FTM = Mirroring (RAID 1), which uses 3 times the data size, thus 100 GB VM uses 300 GB of vSAN capacity.

The difference in vSAN capacity consumed between Cluster-B and Cluster-A is: 300 GB (Cluster-B) - 150 GB (Cluster-A) = 150 GB

So, Cluster-B consumes 150 GB more vSAN capacity than Cluster-A.

VMware vSAN Storage Policies: vSAN Storage Policies

QUESTION 5

An administrator needs to place a node in maintenance mode They want to ensure vSAN does not start rebuilding absent components during the time it takes for maintenance to be completed

What would allow the administrator to achieve this?

- A. Temporarily disable components ^synchronization.
- B. Temporarily set FTT=0 in vSAN Storage Policy.
- C. Increase vSAN Object repair timer
- D. Increase durability component lifetime.

Correct Answer: C

Section:

Explanation:

To ensure that vSAN does not start rebuilding absent components while a node is in maintenance mode, an administrator should increase the vSAN Object repair timer. The Object repair timer controls the delay before vSAN initiates the rebuild of absent components. By increasing this timer, the administrator can ensure that maintenance can be completed without triggering unnecessary rebuilds, reducing the load on the system and preventing potential data redundancy issues.

VMware vSAN Configuration Guide: vSAN Configuration Guide

QUESTION 6

What is the default rekey interval for vSAN data-in-transit encryption on the VxRail Cluster?

- A. 1 day
- B. 6 hours
- C. 7 days
- D. 12 hours

Correct Answer: B

Section:

Explanation:

The default rekey interval for vSAN data-in-transit encryption on the VxRail Cluster is 6 hours. This interval specifies how frequently the encryption keys are rotated to ensure secure communication within the cluster. Regular rekeying helps maintain data security by reducing the risk of encryption key compromise.

VMware vSAN Encryption Guide: [vSAN Encryption Guide](#)

QUESTION 7

What is the duration of the evaluation licenses for vSphere ESXi included with the VxRail system?

- A. 30 days
- B. 90 days
- C. 45 days
- D. 60 days

Correct Answer: C

Section:

Explanation:

The duration of the evaluation licenses for vSphere ESXi included with the VxRail system is 45 days. This trial period allows users to explore and test the features and capabilities of vSphere ESXi before committing to a full license.

VMware vSphere Licensing Documentation: [vSphere Licensing](#)

QUESTION 8

Which three data protection options are included with VxRail? (Select 3)

- A. NetWorker with Avamar
- B. vSphere Replication
- C. vSAN Stretched Cluster
- D. RecoverPoint for VMs
- E. Data Protection Suite for VMware

Correct Answer: B, C, D

Section:

Explanation:

The three data protection options included with VxRail are:

vSphere Replication: Provides simple and cost-effective replication of virtual machines for data protection and disaster recovery. It allows users to replicate VMs between different vSphere environments.

vSAN Stretched Cluster: Offers high availability and disaster recovery by stretching a single vSAN cluster across two geographically separated sites. It ensures data redundancy and site-level failure protection.

RecoverPoint for VMs: Provides continuous data protection and disaster recovery for VMware virtual machines. It enables point-in-time recovery and ensures minimal data loss in the event of a failure.

Dell VxRail Data Protection Solutions: [VxRail Data Protection](#)

QUESTION 9

A VM is configured with hard disks totaling 100 GB allocated. The VM is using a RAID 5 vSAN Storage Policy. What is the total space that is consumed on the vSAN Datastore?

- A. 200 GB
- B. 100 GB
- C. 133 GB
- D. 166 GB

Correct Answer: C

Section:

Explanation:

When a VM is configured with hard disks totaling 100 GB and uses a RAID 5 vSAN Storage Policy, the total space consumed on the vSAN Datastore is approximately 133 GB. RAID 5 in vSAN requires additional space for parity, which is typically about 1.33 times the original data size. This means that for 100 GB of allocated space, the actual consumed space will be around 133 GB, accounting for the data and parity overhead.

VMware vSAN Storage Policies and Space Efficiency: vSAN Storage Policies

QUESTION 10

SIMULATION

Task

An administrator is working with the VxRail Dell Support team and as part of the troubleshooting, the admin has been instructed to temporarily remove the node with a serial number of 'V0730040000000' from the cluster.

User credentials are Username of

'administrator@vsphere.local'

Password 'VMw@r3!123'.

Using the simulator, identify the correct node and remove it from the cluster.



vSphere Client Administrator@VSPHERE.LOCAL

vcsa70.edu.local | ACTIONS

Summary Monitor Configure Permissions Datacenters Hosts & Clusters VMs Datastores Networks

VxRail-DC

VxRail-Cluster

vcluster730-esx01...

vcluster730-esx02...

vcluster730-esx03...

vcluster730-esx04...

VxRail Manager

Version: 7.0.3

Build: 18455184

Last Updated: Aug 30, 2022, 9:08 PM

Last File-Based Backup: Not scheduled

Clusters: 1

Hosts: 3

Virtual Machines: 4

Custom Attributes

Tags

Health Status

Overall Health ✔ Good

APPLIANCE MANAGEMENT

vCenter HA

vSphere Client Administrator@VSPHERE.LOCAL

vcsa70.edu.local

VxRail-DC | ACTIONS

Summary Monitor Configure Permissions Hosts & Clusters VMs Datastores Networks Updates

VxRail-DC

VxRail-Cluster

vcluster730-esx01...

vcluster730-esx02...

vcluster730-esx03...

vcluster730-esx04...

VxRail Manager

Hosts: 3

Virtual Machines: 4

Clusters: 1

Networks: 7

Datastores: 4

Custom Attributes

Tags

vSphere Client Administrator@VSPHERE.LOCAL

VxRail-Cluster | ACTIONS

Summary Monitor Configure Permissions Hosts VMs Datastores Networks Updates

Total Processors: 48
Total vMotion Migrations: 0
Fault Domains:

Related Objects

Datacenter VxRail-DC

vSphere HA Protected

CPU Memory

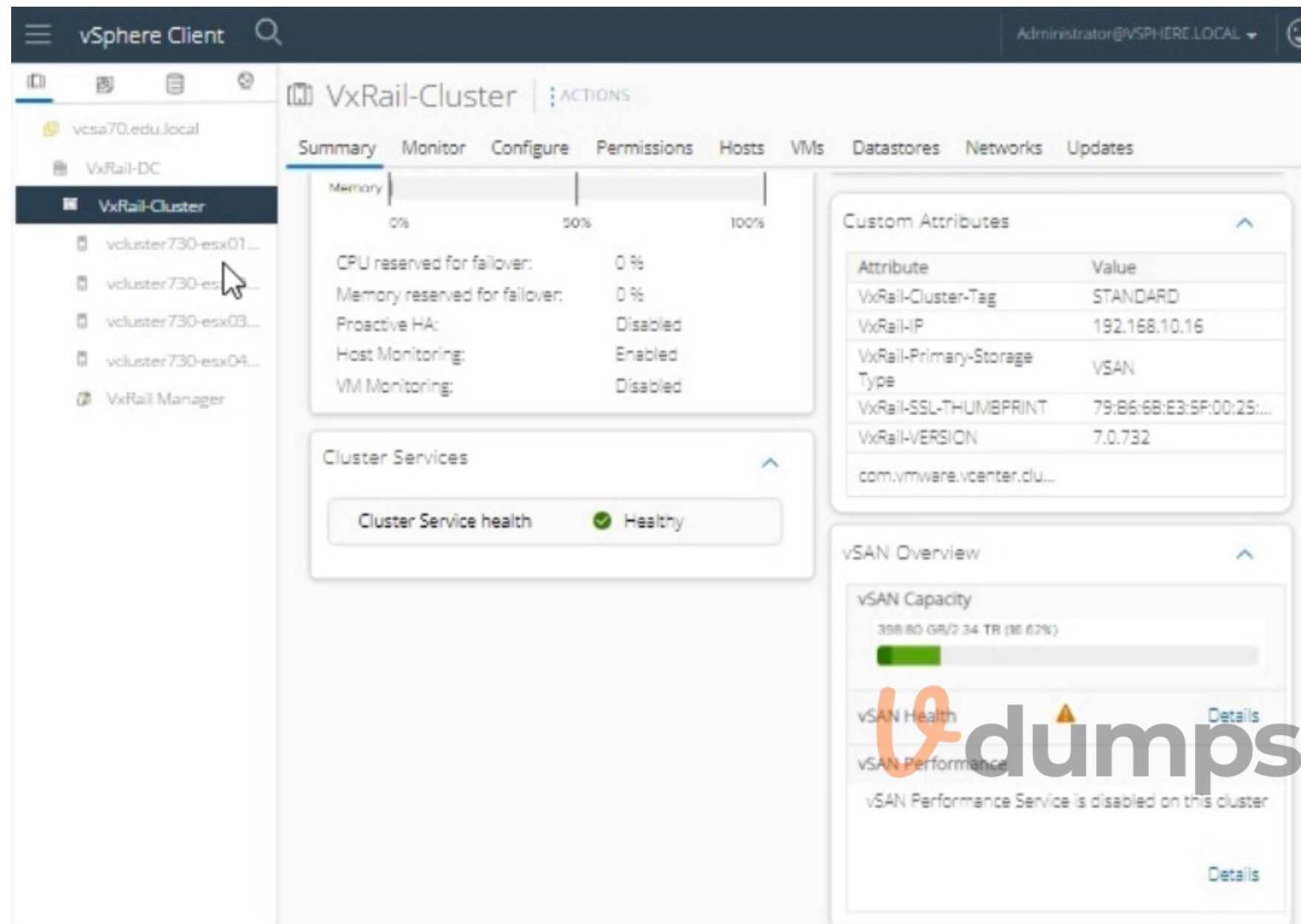
0% 50% 100%

CPU reserved for failover: 0 %
Memory reserved for failover: 0 %

vSphere DRS
Cluster Consumers
Tags
Cluster Resources

Custom Attributes

Attribute	Value
VxRail-Cluster-Tag	STANDARD



A. See the step by step solution in the Explanation below

Correct Answer: A

Section:

Explanation:

To temporarily remove a node with a specific serial number from the VxRail cluster, follow these steps:

Log in to vSphere Client:

Open the vSphere Client.

Enter the username: administrator@vsphere.local.

Enter the password: VMw@r3!123.

Click Login.

Identify the Node with Serial Number 'V0730040000000':

In the vSphere Client interface, navigate to the Hosts and Clusters view.

Expand the VxRail-DC and then the VxRail-Cluster.

Locate the Node:

Click on each host (e.g., vcluster730-esx01, vcluster730-esx02, vcluster730-esx03, vcluster730-esx04) and check the Summary tab to identify the node with the serial number V0730040000000.

The Summary tab provides details about the hardware, including the serial number.

Put the Node in Maintenance Mode:

Right-click on the identified node.

Select Maintenance Mode > Enter Maintenance Mode.

Select Ensure Accessibility and click OK.

Remove the Node from the Cluster:

Once the node is in maintenance mode, right-click the node again.

Select Remove from Inventory.

Confirm the action by clicking Yes or OK when prompted.

Verify the Node Removal:

Ensure that the node is no longer listed under the VxRail-Cluster.

Check the overall health and status of the cluster to confirm that it is functioning properly without the removed node.

Dell VxRail Administration Guide: VxRail Administration Guide

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Note: Be cautious when removing nodes from a VxRail cluster, as this can impact the cluster's capacity and redundancy. Always follow proper procedures and consult with Dell Support as needed.

QUESTION 11

SIMULATION

During a maintenance task on a VxRail Appliance, the system LED on vcluster730-esx03.edu.local is required to be enabled so the node can be correctly identified in the physical rack.

Use the simulator to enable the System LED for the node.



vSphere Client Administrator@VSPHERE.LOCAL

vcsa70.edu.local ACTIONS

Summary Monitor Configure Permissions Datacenters Hosts & Clusters VMs Datastores Networks

VxRail-DC

- VxRail-Cluster
 - vcluster730-esx01...
 - vcluster730-esx02...
 - vcluster730-esx03...
- VxRail Manager

Version: 7.0.3
Build: 18455184
Last Updated: Aug 30, 2022, 9:08 PM
Last File-Based Backup: Not scheduled

Clusters: 1
Hosts: 3
Virtual Machines: 4

Custom Attributes

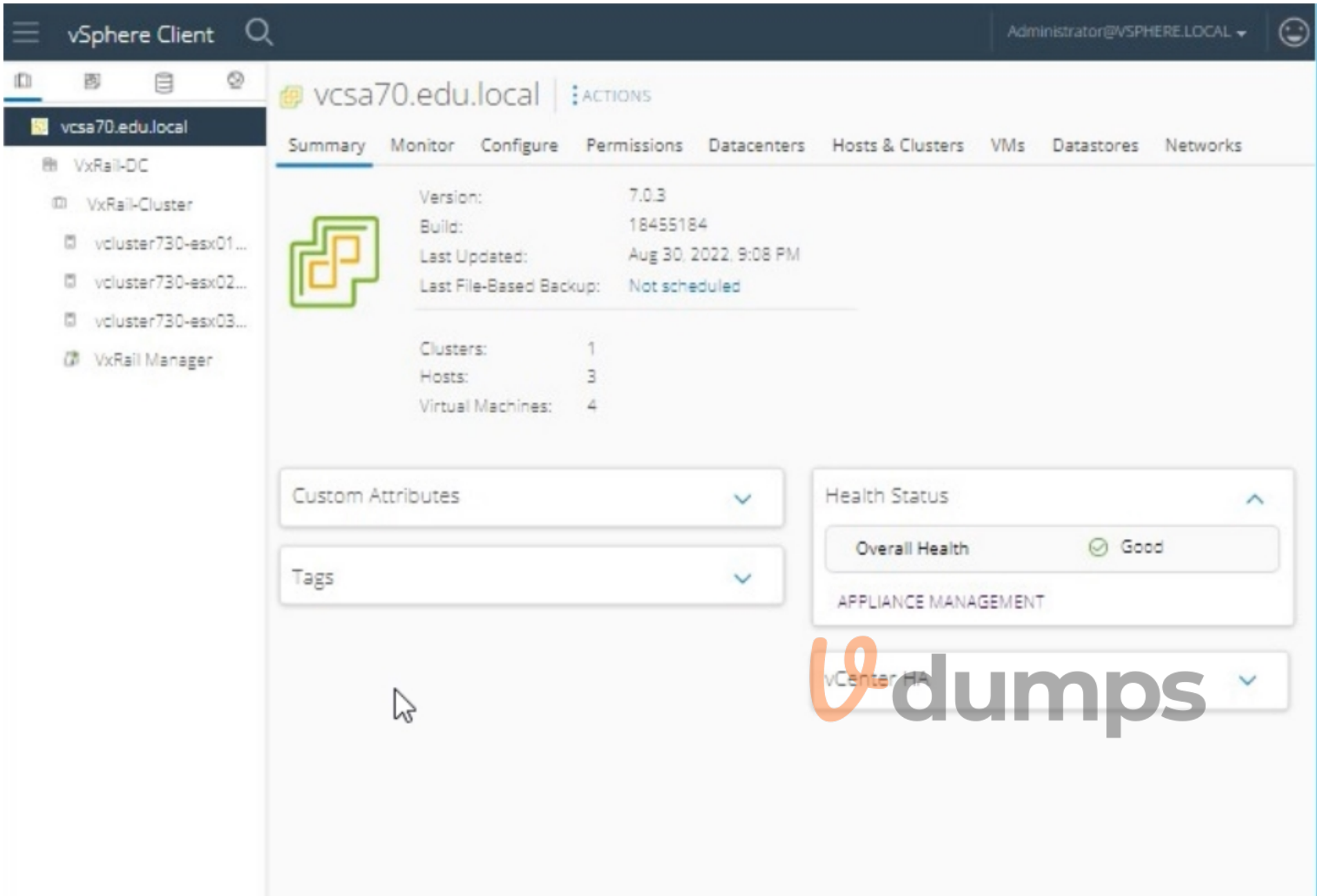
Tags

Health Status

Overall Health ✔ Good

APPLIANCE MANAGEMENT

vCenter HA



vSphere Client Administrator@VSPHERE.LOCAL

VxRail-DC

Summary Monitor Configure Permissions Hosts & Clusters VMs Datastores Networks Updates

Hosts: 3
Virtual Machines: 4
Clusters: 1
Networks: 7
Datastores: 4

Custom Attributes Tags

vSphere Client Administrator@VSPHERE.LOCAL

VxRail-Cluster

Summary Monitor Configure Permissions Hosts VMs Datastores Networks Updates

Total Processors: 48
Total vMotion Migrations: 0
Fault Domains:

Related Objects

Datacenter VxRail-DC

vSphere DRS
Cluster Consumers
Tags
Cluster Resources

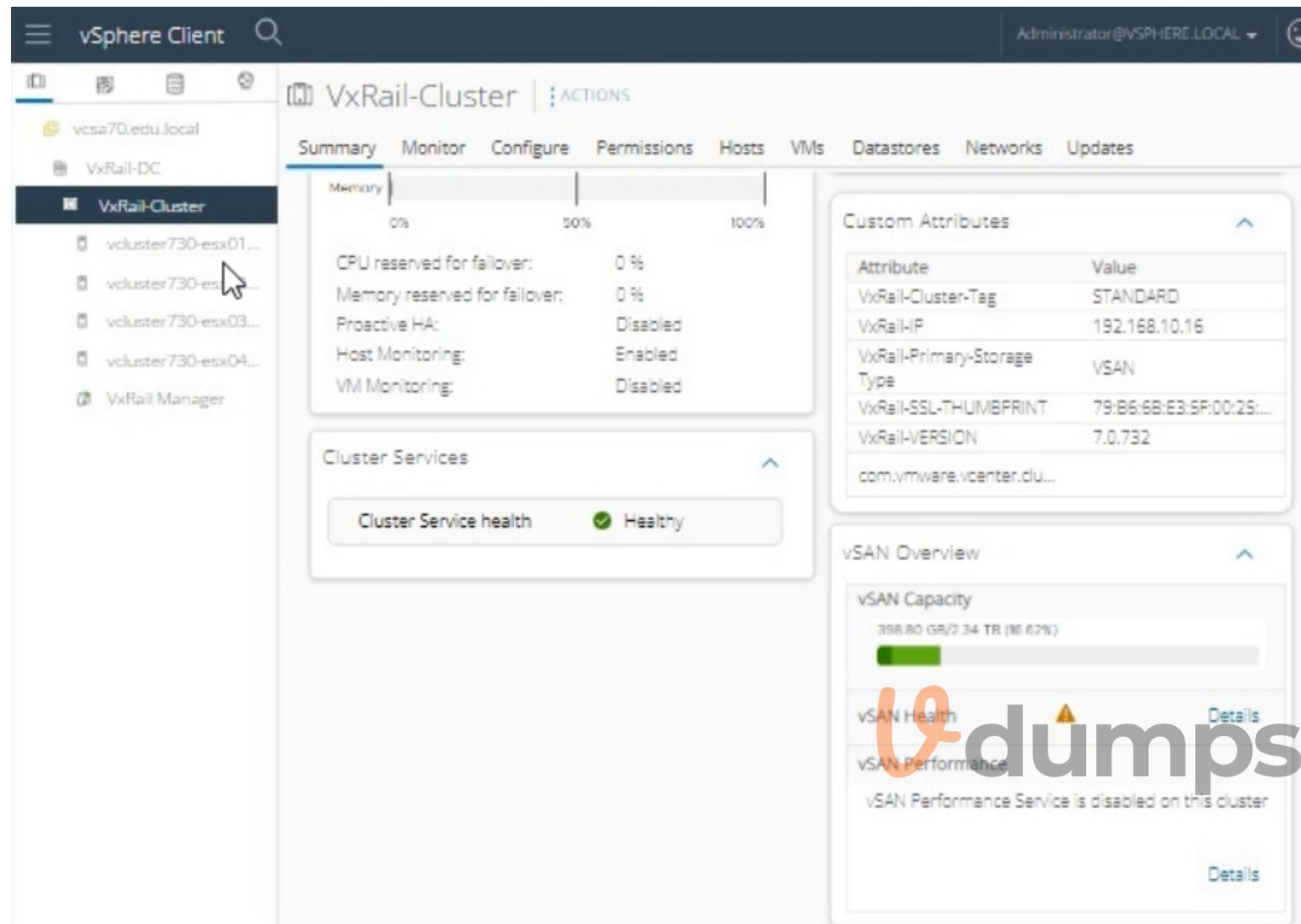
vSphere HA Protected

CPU reserved for failover: 0%
Memory reserved for failover: 0%

Custom Attributes

Attribute	Value
VxRail-Cluster-Tag	STANDARD

Vdumps



A. See the step by step solution in the Explanation below

Correct Answer: A

Section:

Explanation:

To enable the system LED on vcluster730-esx03.edu.local for identification in the physical rack, follow these steps:

Log in to vSphere Client:

Open the vSphere Client.

Enter the username: administrator@vsphere.local.

Enter the password: VMw@r3!123.

Click Login.

Navigate to the Host:

In the vSphere Client interface, navigate to the Hosts and Clusters view.

Expand the VxRail-DC and then the VxRail-Cluster.

Select the host named vcluster730-esx03.edu.local.

Access Host Actions:

Right-click on vcluster730-esx03.edu.local.

From the context menu, select Actions.

Enable System LED:

In the Actions menu, locate and select Enable LED or Turn On Locator LED (the exact wording might vary).

Confirm the action if prompted.

Verify LED Activation:

Check the physical rack to ensure that the system LED on vcluster730-esx03.edu.local is enabled and the node is easily identifiable.

VMware vSphere Host Management Guide: vSphere Host Management

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Note: The exact steps to enable the LED might vary slightly based on the version of vSphere Client you are using, but the general process involves selecting the host and using the Actions menu to enable the system LED.

QUESTION 12

An environment has two VxRail clusters In vCenter there is only one vSphere Distributed Switch object for both clusters Which deployment architecture was used for these clusters?

- A. External vCenter Server with external DNS
- B. External vCenter Server with internal DNS
- C. Internal vCenter Server with external DNS
- D. Internal vCenter Server with internal DNS

Correct Answer: A

Section:

Explanation:

The deployment architecture used for these clusters, where there is only one vSphere Distributed Switch object for both clusters in vCenter, is 'External vCenter Server with external DNS.' This setup allows for centralized management of multiple clusters and network resources using a single vSphere Distributed Switch, facilitated by an external vCenter Server and DNS configuration.

Dell VxRail Network Planning Guide: VxRail Network Planning Guide



QUESTION 13

By default, how often does the vSAN Skyline Health check run?

- A. 60 Minutes
- B. 30 Minutes
- C. 45 Minutes
- D. 15 Minutes

Correct Answer: A

Section:

Explanation:

By default, the vSAN Skyline Health check runs every 60 minutes. This regular interval ensures that the health status of the vSAN environment is frequently assessed, allowing administrators to promptly address any issues that may arise.

VMware vSAN Health Service Documentation: vSAN Health Service

QUESTION 14

When the VxRail cluster is deployed, what vSAN storage policy settings are applied to the VxRail Manager VIVP

- A. Failures to Tolerate: 1 failure - RAID 1 (Mirroring) Object space reservation: Thin provisioning
- B. Failures to Tolerate: 1 failure - RAID 5 (Erasure Coding) Object space reservation. Thin provisioning
- C. Failures to Tolerate: 1 failure - RAID 5 (Erasure Coding) Object space reservation Thick provisioning
- D. Failures to Tolerate: 1 failure - RAID 1 (Mirroring) Object space reservation. Thick provisioning

Correct Answer: A

Section:

Explanation:

When the VxRail cluster is deployed, the vSAN storage policy settings applied to the VxRail Manager VM are as follows:

Failures to Tolerate: 1 failure - RAID 1 (Mirroring)

Object space reservation: Thin provisioning

These settings ensure that the VxRail Manager VM has redundancy to tolerate a single failure and uses thin provisioning to optimize storage usage.

Dell VxRail Deployment Guide: VxRail Deployment Guide

QUESTION 15

An administrator must shut down a VxRail cluster. However, the validation process has failed and cannot be completed.

What action must be taken to correct the issue?

- A. Turn off cluster health monitoring
- B. Put all nodes in maintenance mode.
- C. Disconnect all nodes from external storage
- D. Shut down all client VMs.

Correct Answer: D

Section:

Explanation:

If the validation process for shutting down a VxRail cluster fails, the necessary action to correct the issue is to shut down all client VMs. Ensuring that all virtual machines are powered off is crucial for a clean shutdown of the cluster, preventing any data loss or corruption and allowing the shutdown process to complete successfully.

Dell VxRail Administration Guide: VxRail Administration Guide

QUESTION 16

Which vSphere integrated component must be installed on the VxRail cluster that is used to run containers?

- A. Tanzu
- B. vRealize
- C. vSAN
- D. Docker

Correct Answer: A

Section:

Explanation:

The vSphere integrated component that must be installed on the VxRail cluster to run containers is VMware Tanzu. VMware Tanzu enables Kubernetes container orchestration within a VMware environment, integrating with vSphere to provide a platform for managing containers alongside virtual machines. This allows administrators to deploy and manage containerized applications using the same tools and processes they use for VMs.

QUESTION 17

An administrator wants to get information about a specific host and runs this code:

```
GET/v1/hosts/{sn}
```

An API code 404 is returned.

What is the reason for the error code?

- A. The administrator was not authenticated
- B. The provided {sn} was not valid
- C. There was a server error

D. The API is designed to return all hosts in a cluster

Correct Answer: B

Section:

Explanation:

The error code 404 indicates that the requested resource could not be found on the server. In the context of the API call GET/v1/hosts/{sn}, the 404 error is returned because the serial number (sn) provided was not valid or does not exist in the database. This means the server could not find any host that matches the provided serial number.

QUESTION 18

Which command is used to unlock the mystic account on the VxRail Manager VM?

- A. passwd --user mystic --reset
- B. reset-password ---user mystic
- C. reset-lockout ---user=mystic
- D. pam_tally2 --user=mystic --reset

Correct Answer: D

Section:

Explanation:

To unlock the mystic account on the VxRail Manager VM, the command used is pam_tally2 --user=mystic --reset. This command resets the failed login attempts counter for the specified user, unlocking the account if it was locked due to too many failed login attempts.

Steps to unlock:

Access the VxRail Manager VM through SSH.

Execute the command pam_tally2 --user=mystic --reset.

Verify that the account is unlocked and can log in successfully.



QUESTION 19

What is the default load-balancing policy for VxRail Port Groups for a system deployed with a predefined network profile1?

- A. Route based on source MAC hash
- B. Route based on IP hash.
- C. Route based on physical NIC load
- D. Route based on originating virtual port.

Correct Answer: D

Section:

Explanation:

The default load-balancing policy for VxRail Port Groups in a system deployed with a predefined network profile is 'Route based on originating virtual port.' This policy distributes network traffic based on the virtual port ID from which the traffic originates, ensuring that traffic from a particular virtual machine (VM) is consistently routed through the same physical network adapter.

QUESTION 20

VxRail nodes have been purchased to add additional capacity The new nodes are based on AMD Chipset, the current cluster is based on Intel Chipset

What should be the next step?

- A. A Add the new nodes to the existing cluster
- B. Enable VMware EVC Mode and then add the new nodes.
- C. Create an additional Cluster with the new nodes

Correct Answer: B

Section:

Explanation:

When adding VxRail nodes based on a different chipset (e.g., AMD vs. Intel) to an existing cluster, it is necessary to enable VMware Enhanced vMotion Compatibility (EVC) mode. EVC ensures CPU compatibility for vMotion by masking certain CPU features, making it possible to add nodes with different processors to the same cluster without causing compatibility issues.

Steps:

Enable VMware EVC mode on the existing cluster.

Ensure all cluster nodes meet the EVC requirements.

Add the new AMD-based nodes to the existing cluster.

QUESTION 21

What is the vSAN automatic rebalancing threshold recommended by VMware?

- A. 25%
- B. 15%
- C. 30%
- D. 20%

Correct Answer: D

Section:

Explanation:

The recommended vSAN automatic rebalancing threshold by VMware is 20%. This threshold ensures that vSAN automatically initiates rebalancing operations when the storage utilization across the disks in the vSAN datastore becomes uneven beyond this threshold, maintaining optimal performance and storage efficiency.

QUESTION 22

In the vSphere Client, where is VxRail Health Monitoring enabled?

- A. Menu - VxRail
- B. Cluster > Configure > VxRail
- C. Menu > Administration
- D. aCluster > Monitor > VxRail

Correct Answer: B

Section:

Explanation:

In the vSphere Client, VxRail Health Monitoring is enabled under Cluster > Configure > VxRail. This section provides an interface for configuring and monitoring VxRail-specific health and performance metrics, ensuring that administrators can effectively manage and monitor their VxRail clusters.

Steps:

Open the vSphere Client.

Navigate to the specific cluster.

Go to the Configure tab.

Select VxRail from the list.

QUESTION 23

What are two failure states of vSAN components? (Select 2)

- A. Orphaned
- B. Degraded



- C. Absent
- D. Inaccessible

Correct Answer: B, C

Section:

Explanation:

The two failure states of vSAN components are 'Degraded' and 'Absent.'

Degraded: A vSAN component is considered degraded when it is still accessible but has experienced a loss of redundancy or other performance issues. This state indicates that the data is still available but may be at risk if further failures occur.

Absent: A vSAN component is in an absent state when it is temporarily unavailable, often due to transient issues like network disconnections or host reboots. The system expects the component to return shortly.

QUESTION 24

What is the maximum number of days vSAN capacity history is available'?

- A. 30
- B. 60
- C. 365
- D. 120

Correct Answer: D

Section:

Explanation:

The maximum number of days vSAN capacity history is available is 120 days. vSAN maintains a rolling history of capacity usage, providing detailed insights into storage trends and helping administrators manage and forecast storage requirements effectively.

QUESTION 25

What is a consideration when scaling a VxRail cluster?

- A. A Mixing of all-flash and NVMe nodes is not allowed
- B. A maximum of 10 nodes is supported when 1 Gbps networking is used.
- C. Mixing VxRail nodes with different base network speeds is not permitted
- D. The first two nodes in a standard cluster must be identical.

Correct Answer: C

Section:

Explanation:

When scaling a VxRail cluster, it is important to consider that mixing VxRail nodes with different base network speeds is not permitted. This restriction ensures network consistency and performance across the cluster, avoiding potential issues with data flow and latency caused by differing network speeds.

QUESTION 26

Which level of data protection can be configured across sites in a VxRail Stretched Cluster1?

- A. RAID 1/0
- B. RAID 6
- C. RAID 1
- D. RAID 5

Correct Answer: C

Section:

Explanation:

In a VxRail Stretched Cluster, RAID 1 can be configured across sites to provide data protection. RAID 1 (mirroring) ensures that data is replicated across two sites, providing high availability and data redundancy in case one site fails. This configuration helps maintain continuous operations and data integrity in a multi-site deployment.

QUESTION 27

A VxRail Cluster has been deployed with four VxRail E560 nodes each using four integrated NIC ports and the default network profile.

Which vmnics carry the VxRail management traffic, and in what teaming and failover configuration?

- A. vmnic0 and vmnic1 active/active pair with link aggregation
- B. vmnic1 and vmnic2 active/standby pair with link aggregation
- C. vmnic0 and vmnic1 active/standby pair with no link aggregation
- D. vmnic0 and vmnic3 active/active pair with no link aggregation

Correct Answer: C

Section:

Explanation:

For a VxRail cluster deployed with four VxRail E560 nodes using four integrated NIC ports and the default network profile, the VxRail management traffic is carried by vmnic0 and vmnic1 in an active/standby configuration with no link aggregation. This setup ensures redundancy and failover capabilities for the management network, enhancing the cluster's reliability and resilience.

QUESTION 28

Which resource enables an administrator to create a procedure for upgrading a VxRail cluster?

- A. SolVe Online
- B. Dell ProSupport
- C. VxRail Quick Reference
- D. VxRail Administration Guide



Correct Answer: A

Section:

Explanation:

The resource that enables an administrator to create a procedure for upgrading a VxRail cluster is SolVe Online. SolVe Online is a web-based tool provided by Dell Technologies that offers comprehensive procedures and best practices for various Dell EMC solutions, including VxRail. It provides detailed, step-by-step guidance for a variety of tasks, including upgrades, ensuring that administrators follow the correct procedures to maintain system integrity and minimize downtime.

Dell SolVe Online Portal: SolVe Online

QUESTION 29

Which service on the ESXi host allows automatic discovery when adding a node into an existing VxRail Cluster*?

- A. loudmouth
- B. vxrail-platform-service
- C. vpxa
- D. vxrail-election

Correct Answer: A

Section:

Explanation:

The service on the ESXi host that allows automatic discovery when adding a node into an existing VxRail Cluster is 'loudmouth.' Loudmouth is a lightweight messaging daemon that enables the nodes in a VxRail cluster to

discover each other automatically. This service facilitates the seamless addition of new nodes into an existing VxRail cluster by enabling them to communicate and integrate without manual configuration.
Dell VxRail Network Planning Guide: VxRail Network Planning Guide

QUESTION 30

What authorization method is used for VxRail API calls?

- A. Auth
- B. HTTP Basic
- C. API Keys
- D. OpenID Connect

Correct Answer: B

Section:

Explanation:

The authorization method used for VxRail API calls is HTTP Basic. This method requires the client to send the user's credentials (username and password) encoded in Base64 within an HTTP header. HTTP Basic authentication is straightforward and is supported by most HTTP clients, making it a suitable choice for securing API calls in VxRail environments.

Dell VxRail API Documentation: VxRail API Documentation

QUESTION 31

Using the VxRail plug-in, where can iDRAC settings be configured?

- A. Cluster > Configure > VxRail > iDRAC Configuration
- B. Host > Configure > Hardware > iDRAC Configuration
- C. Cluster > Configure > VxRail > Networking
- D. Host > Configure > VxRail > iDRAC Configuration

Correct Answer: D

Section:

Explanation:

Using the VxRail plug-in, iDRAC settings can be configured by navigating to 'Host > Configure > VxRail > iDRAC Configuration.' This path allows administrators to directly manage and configure the Integrated Dell Remote Access Controller (iDRAC) settings for individual hosts within the VxRail environment, providing essential remote management and monitoring capabilities.

Dell VxRail Manager User Guide: VxRail Manager User Guide

QUESTION 32

What is a benefit when using VCF on VxRail architectures'?

- A. Minimizes the risk from new deployments and operations
- B. Automation of full stack lifecycle management
- C. Optimized infrastructure performance
- D. Simplified deployment and lifecycle management

Correct Answer: B

Section:

Explanation:

A significant benefit when using VCF (VMware Cloud Foundation) on VxRail architectures is the automation of full stack lifecycle management. VCF on VxRail integrates VMware Cloud Foundation with Dell EMC VxRail, providing an automated and turnkey hybrid cloud solution. This integration automates the deployment, configuration, and ongoing management of the entire stack, including hardware, virtualization, and cloud management, thereby reducing complexity and administrative overhead.

Dell VCF on VxRail Overview: VCF on VxRail Overview



QUESTION 33

If the vCenter Server is unavailable, which vSAN troubleshooting option should an administrator use?

- A. ESXCLI
- B. iDRAC
- C. PowerCLI
- D. VxRail Manager

Correct Answer: D

Section:

Explanation:

If the vCenter Server is unavailable, an administrator should use VxRail Manager for vSAN troubleshooting. VxRail Manager provides comprehensive management and monitoring capabilities for the VxRail cluster, including vSAN. It enables administrators to perform health checks, diagnostics, and maintenance tasks even when the vCenter Server is down, ensuring continuity of operations and effective troubleshooting.

Dell VxRail Manager User Guide: [VxRail Manager User Guide](#)

QUESTION 34

What is required to setup vSAN HCI Mesh?

- A. Latency of 5 milliseconds and network redundancy
- B. vSAN Enterprise License and 1 Gbps Networking
- C. Latency of 10 milliseconds and bandwidth of 10 Gbps
- D. vSAN Advanced License and bandwidth of 25 Gbps

Correct Answer: C

Section:

Explanation:

To set up vSAN HCI Mesh, a latency of 10 milliseconds and a bandwidth of 10 Gbps are required. vSAN HCI Mesh allows vSAN clusters to share storage resources over a network. Ensuring low latency and high bandwidth is crucial for maintaining performance and reliability in a hyper-converged infrastructure (HCI) environment, which vSAN HCI Mesh facilitates.

VMware vSAN HCI Mesh Requirements: [VMware vSAN HCI Mesh](#)



QUESTION 35

What are two considerations of deploying VxRail Cluster with an existing customer-supplied vCenter Server? (Select 2)

- A. Requires an internal DNS server
- B. Supports Enhanced Link Mode with other VxRail-managed vCenter Servers
- C. Supports vCenter HA
- D. Uses customer-defined procedures for vCenter LCM

Correct Answer: B, D

Section:

Explanation:

When deploying a VxRail Cluster with an existing customer-supplied vCenter Server, two key considerations are:

Supports Enhanced Link Mode with other VxRail-managed vCenter Servers: This allows the existing vCenter Server to link with other VxRail-managed vCenter Servers, providing a unified management interface across multiple vCenter instances, enabling seamless operations and better scalability.

Uses customer-defined procedures for vCenter LCM (Lifecycle Management): Since the vCenter Server is customer-supplied, the procedures for upgrading and maintaining it are defined and managed by the customer, rather than being automatically handled by VxRail's built-in lifecycle management tools.

Dell VxRail Deployment with Existing vCenter Server Guide: [VxRail Deployment Guide](#)

QUESTION 36

SIMULATION

An existing 4-node VxRail standard cluster has to be scaled out with 2 additional nodes and configured as a stretched cluster. An administrator must prepare a vSAN storage policy that should have the following:

- vSAN Policy Name: vSAN Stretched Cluster
- Data protection across the sites
- Local protection: RAID-1 with FTT=1
- Thick Provisioning

An administrator should be able to provision a VM even if the currently available cluster resources cannot satisfy the current policy.

Use the simulator to create the required vSAN storage policy.

The screenshot displays the vSphere Client interface for a VxRail cluster named 'vcsa70.edu.local'. The left-hand navigation pane shows the hierarchy: VxRail-DC > VxRail-Cluster > vcluster730-esx01..., vcluster730-esx02..., vcluster730-esx03..., and VxRail Manager. The main content area is the 'Summary' tab, which provides the following information:

- Version: 7.0.3
- Build: 18455184
- Last Updated: Aug 30, 2022, 9:08 PM
- Last File-Based Backup: Not scheduled
- Clusters: 1
- Hosts: 3
- Virtual Machines: 4

Below the summary, there are several expandable sections: 'Custom Attributes', 'Tags', 'Health Status' (showing 'Overall Health' as 'Good'), 'APPLIANCE MANAGEMENT', and 'vCenter HA'. A large 'Vdumps' watermark is overlaid on the right side of the interface.

vSphere Client Administrator@VSPHERE.LOCAL

VxRail-DC

Summary Monitor Configure Permissions Hosts & Clusters VMs Datastores Networks Updates

Hosts: 3
Virtual Machines: 4
Clusters: 1
Networks: 7
Datastores: 4

Custom Attributes Tags

vSphere Client Administrator@VSPHERE.LOCAL

VxRail-Cluster

Summary Monitor Configure Permissions Hosts VMs Datastores Networks Updates

Total Processors: 48
Total vMotion Migrations: 0
Fault Domains:

Related Objects

Datacenter VxRail-DC

vSphere DRS
Cluster Consumers
Tags
Cluster Resources

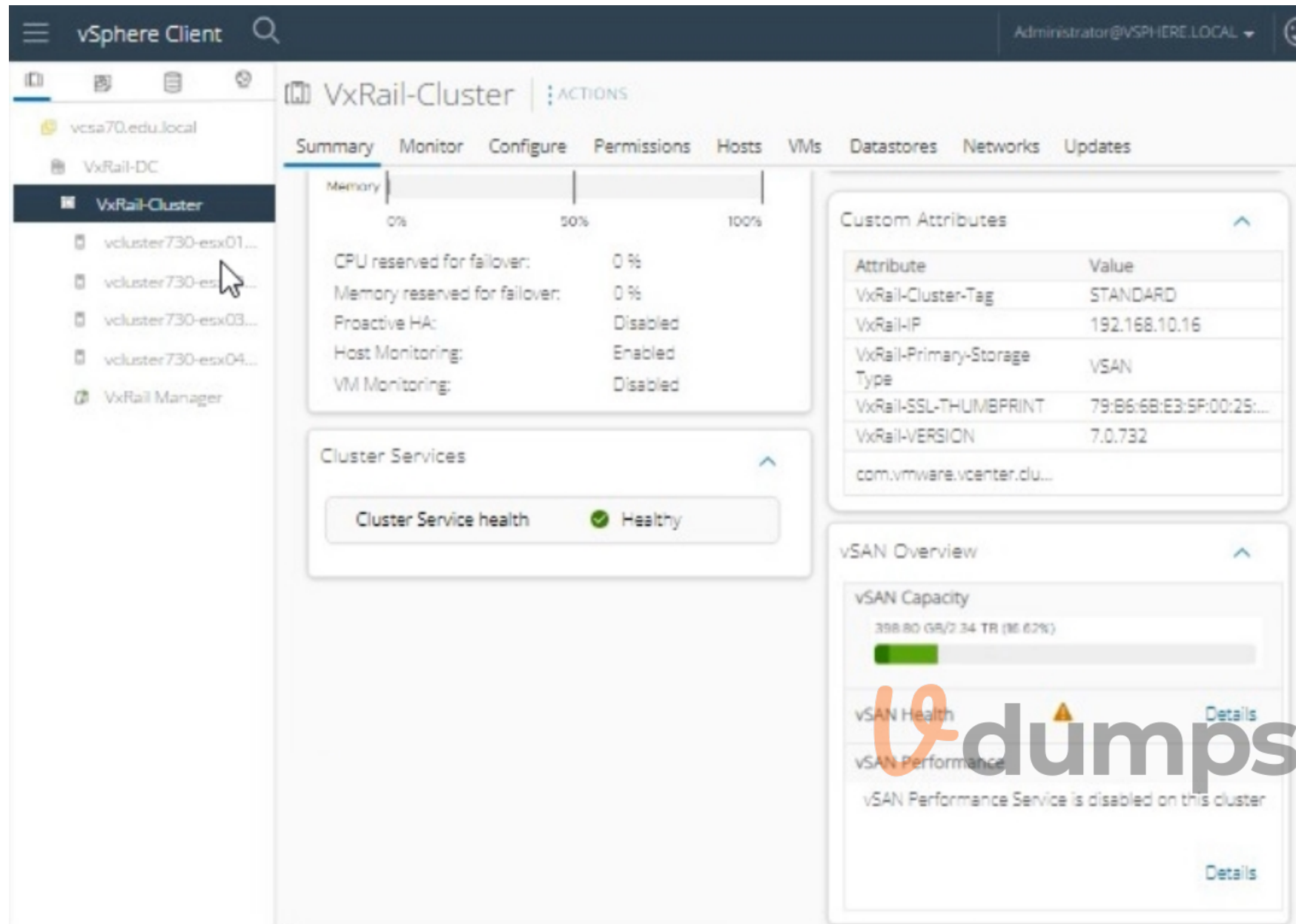
vSphere HA Protected

CPU reserved for failover: 0%
Memory reserved for failover: 0%

Custom Attributes

Attribute	Value
VxRail-Cluster-Tag	STANDARD

Vdumps



A. See the step by step solution in the Explanation below

Correct Answer: A

Section:

Explanation:

To create the required vSAN storage policy in the vSphere Client for a VxRail stretched cluster, follow these steps:

Log in to vSphere Client:

Open the vSphere Client.

Enter the username: administrator@vsphere.local.

Enter the password: VMw@r3!123.

Click Login.

Navigate to Storage Policies:

From the home screen, go to Policies and Profiles in the left-hand navigation pane.

Click on VM Storage Policies.

Create a New Storage Policy:

Click Create VM Storage Policy.

Enter the name as vSAN Stretched Cluster.

Click Next.

Configure Policy Rules:

In the Policy Structure section, choose Enable tag-based placement rules if needed.

Click Next.

Add vSAN Rules:

In the Storage Compatibility section, click Add rule and select vSAN.

Configure the following:

Primary level of failures to tolerate (PFTT): 1 failure - RAID 1 (Mirroring)

Secondary level of failures to tolerate (SFTT): 1 failure - RAID 1 (Mirroring)

Failures to Tolerate: 1

Provisioning type: Thick Provisioning

Ensure 'Force Provisioning' is enabled. This allows the VM to be provisioned even if the current resources do not satisfy the policy.

Set Data Services:

Skip the Data Services section if not applicable.

Click Next.

Review and Finish:

Review the policy settings.

Click Finish to create the storage policy.

Apply the Storage Policy to VMs:

Navigate to the VMs section.

Select the VMs that need the new storage policy.

Right-click and select VM Policies > Edit VM Storage Policies.

Choose the vSAN Stretched Cluster policy for the applicable disks.

VMware vSAN Storage Policy Creation Guide: vSAN Storage Policies

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Note: The exact steps may vary slightly based on the version of vSphere Client being used. Make sure to adjust any specific configurations based on the latest guidelines and available features in the interface.

QUESTION 37

SIMULATION

An administrator must upgrade a VxRail cluster 7.0.x at a dark site.

The credentials for the system are:

VxRail Manager username: root

VxRail Manager password:

VMw@r3!123

vCenter Administrator:

administrator@vsphere.local

vCenter Administrator password:

VMw@r3!123

VCSA username: root

VCSA password: VMw@r3!123

Use the simulator to upgrade the cluster to the latest recommended version.



vSphere Client Administrator@VSPHERE.LOCAL

vcsa70.edu.local ACTIONS

Summary Monitor Configure Permissions Datacenters Hosts & Clusters VMs Datastores Networks

VxRail-DC

- VxRail-Cluster
 - vcluster730-esx01...
 - vcluster730-esx02...
 - vcluster730-esx03...
- VxRail Manager

Version: 7.0.3
Build: 18455184
Last Updated: Aug 30, 2022, 9:08 PM
Last File-Based Backup: Not scheduled

Clusters: 1
Hosts: 3
Virtual Machines: 4

Custom Attributes

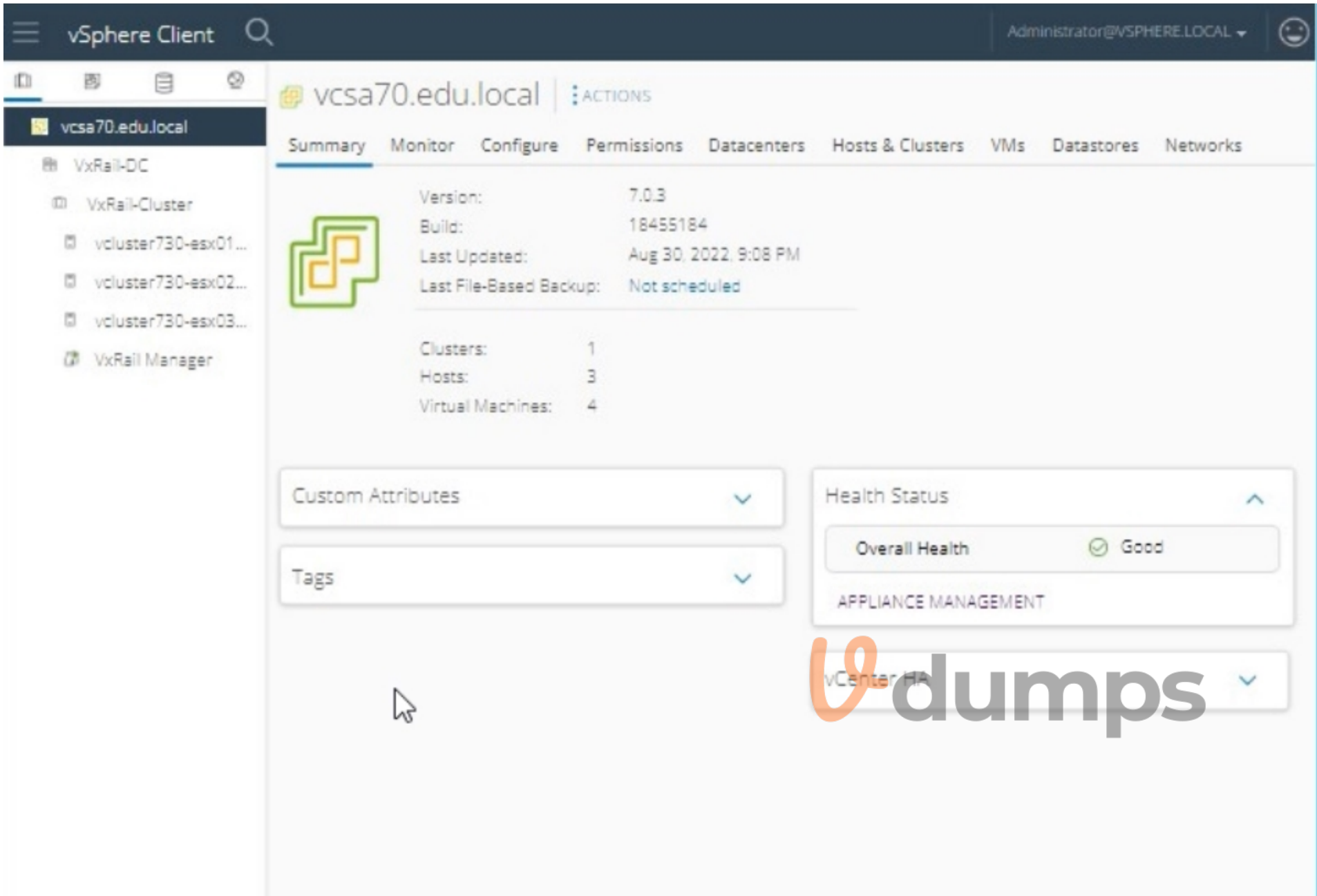
Tags

Health Status

Overall Health ✔ Good

APPLIANCE MANAGEMENT

vCenter HA



vSphere Client Administrator@VSPHERE.LOCAL

VxRail-DC

Summary Monitor Configure Permissions Hosts & Clusters VMs Datastores Networks Updates

Hosts: 3
Virtual Machines: 4
Clusters: 1
Networks: 7
Datastores: 4

Custom Attributes Tags

vSphere Client Administrator@VSPHERE.LOCAL

VxRail-Cluster

Summary Monitor Configure Permissions Hosts VMs Datastores Networks Updates

Total Processors: 48
Total vMotion Migrations: 0
Fault Domains:

Related Objects

Datacenter VxRail-DC

vSphere HA Protected

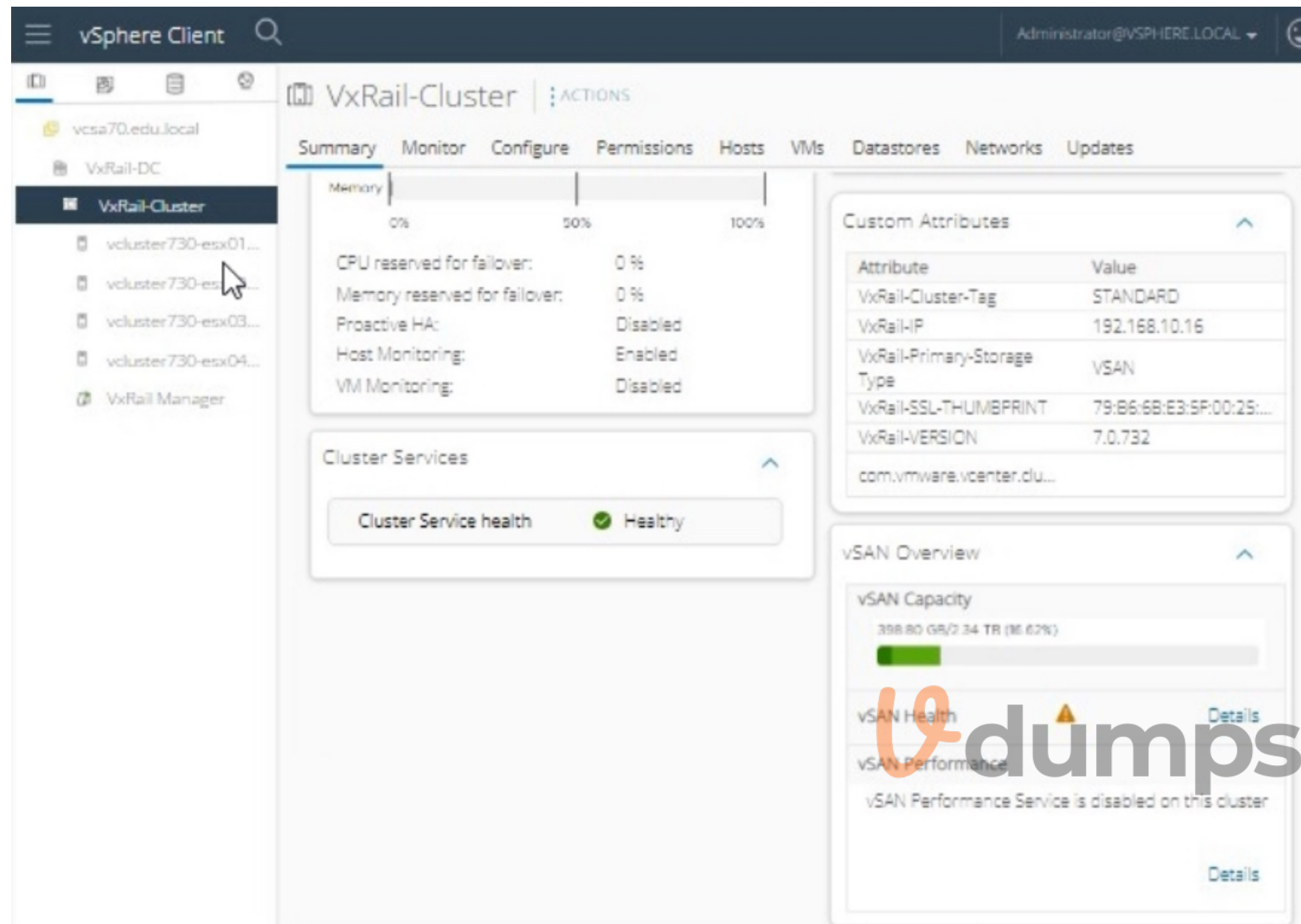
CPU reserved for failover: 0%
Memory reserved for failover: 0%

vSphere DRS
Cluster Consumers
Tags
Cluster Resources

Custom Attributes

Attribute	Value
VxRail-Cluster-Tag	STANDARD

Vdumps



A. See the step by step solution in the Explanation below

Correct Answer: A

Section:

Explanation:

To upgrade a VxRail cluster to the latest recommended version at a dark site (an environment without internet access), follow these steps:

Log in to VxRail Manager:

Open a web browser and navigate to the VxRail Manager URL.

Log in using the credentials:

Username: root

Password: VMw@r3!123.

Check Current Version and Compatibility:

Once logged in, navigate to the Dashboard to view the current version of VxRail.

Verify compatibility with the target upgrade version by reviewing the VxRail Release Notes or Upgrade Guide for your specific version.

Download Upgrade Bundle:

Since the site is dark, download the necessary upgrade bundle from Dell EMC's support site using another system with internet access.

Save the upgrade bundle to a portable storage device (USB drive, external HDD, etc.).

Upload the Upgrade Bundle to VxRail Manager:

Connect the portable storage device to a local machine within the dark site.

In VxRail Manager, navigate to the Internet Upgrade section.

Select Local Upgrade and browse to the location of the upgrade bundle on your local machine.

Upload the upgrade bundle.

Perform the Upgrade:

After the bundle is uploaded, follow the on-screen prompts to begin the upgrade process.

The upgrade wizard will guide you through pre-upgrade checks, including verifying compatibility and ensuring cluster health.

Monitor the Upgrade Progress:

The upgrade process will take some time. Monitor the progress via the VxRail Manager interface.

Ensure there are no errors or issues reported during the upgrade.

Post-Upgrade Verification:

Once the upgrade is complete, verify that the VxRail Manager and vCenter report the new version correctly.

Check the health and status of the cluster to ensure all components are operational.

Steps using the Simulator:

Login to VxRail Manager:

Open the simulator and navigate to the VxRail Manager interface.

Use the provided credentials to log in:

Username: root

Password: VMw@r3!123.

Navigate to Upgrade Section:

In the VxRail Manager interface, click on Internet Upgrade or Software Upgrade.

Upload the Upgrade Bundle:

Select Local Upgrade.

Click Browse and select the upgrade bundle from your local machine.

Click Upload to start the upload process.

Initiate the Upgrade:

Once the upload is complete, follow the prompts to start the upgrade.

Confirm the pre-upgrade checks and proceed.

Monitor Upgrade Process:

Monitor the upgrade status in the VxRail Manager interface.

Wait for the upgrade to complete and ensure there are no issues.

Verify Upgrade Completion:

After the upgrade, verify the new version in the VxRail Manager dashboard.

Check the health status of the cluster to ensure everything is running smoothly.

Dell VxRail Upgrade Guide: [VxRail Upgrade Guide](#)

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Note: This example assumes the use of the VxRail Manager interface. If additional specific steps are needed for your environment, consult the official VxRail Upgrade Guide for detailed instructions tailored to your version and deployment.

