

[Q13-Q35 100% Guaranteed Results HPE2-K45 Unlimited 40 Questions [2024



100% Guaranteed Results HPE2-K45 Unlimited 40 Questions [2024]
HPE2-K45 Dumps PDF - Want To Pass HPE2-K45 Fast

HP HPE2-K45 exam is designed to test your knowledge and skills in using HPE SimpliVity. HPE SimpliVity is a powerful hyperconverged infrastructure solution that combines computing, storage, and networking in a single software-defined platform. The HP HPE2-K45 exam is aimed at IT professionals who are responsible for deploying, managing, and troubleshooting HPE SimpliVity solutions in their organizations.

QUESTION 13

A customer plans to use HPE SimpliVity RapidDR, but is concerned about vCenter Server license cost. In which deployment scenario is only a single vCenter Server required?

- * when less than 600 VMs is covered with a single recovery plan
- * when Enhanced Linked Mode is enabled for vCenter
- * when Intelligent Workload optimizer is disabled
- * when federation is managed centrally

HPE SimpliVity RapidDR is a disaster recovery orchestration tool that automates and simplifies the recovery process of VMs protected by HPE SimpliVity backups. It can be used in the event of disaster to efficiently restore VMs across the primary and secondary sites, which consist of multiple HPE SimpliVity nodes¹².

HPE SimpliVity RapidDR requires VMware vCenter Server, a centralized management platform for VMware vSphere environments, to perform the recovery operations. VMware vCenter Server is licensed per instance, which means that each vCenter Server installation requires a separate license³.

To reduce the vCenter Server license cost, a customer can use only a single vCenter Server instance to manage the HPE SimpliVity federation, which is a group of HPE SimpliVity clusters that share the same configuration and policies. This deployment scenario is possible when the federation is managed centrally, which means that all the HPE SimpliVity nodes are registered to the same vCenter Server instance, regardless of their physical location.

The other options are not valid for reducing the vCenter Server license cost. The number of VMs covered by a single recovery plan does not affect the vCenter Server license requirement, as long as the VMs are managed by the same vCenter Server instance. Enabling Enhanced Linked Mode for vCenter allows multiple vCenter Server instances to share information and provide a single pane of glass view, but it does not eliminate the need for separate licenses for each vCenter Server instance. Disabling Intelligent Workload Optimizer, a feature that balances the VM workload across the HPE SimpliVity cluster, has no impact on the vCenter Server license requirement.

References:

1: HPE SimpliVity RapidDR 2: HPE SimpliVity RapidDR – Starter License – 25 VMs – CDW 3: VMware vCenter Server – VMware : VMware vCenter Server Licensing, Pricing and Packaging : [HPE SimpliVity Federation Design and Scaling Guide] : [HPE SimpliVity with HPE StoreOnce Reference Architecture] :

[HPE SimpliVity Data Virtualization Platform] : [HPE SimpliVity Intelligent Workload Optimizer] : [HPE SimpliVity Stretched Cluster Guide] : [HPE SimpliVity Remote RapidDR Software Installation and Startup Service]

QUESTION 14

During the troubleshooting process, HPE Support requested a Support Capture file from multiple HPE

SimpliVity hosts. The customer is concerned about security and wants to know what is included in this file.

What information is included in this file? (Select two.)

- * License entitlement
- * System status information
- * HPE InfoSight connection parameters
- * Security token to access system remotely
- * Log files

QUESTION 15

A customer wants to deploy HPE SimpliVity for a VDI Implementation. They need to add two NVIDIA GPU

accelerators per hypervisor, and they have limited space in the data center. Which HPE SimpliVity model

meets the customer needs?

- * HPE SimpliVity 2600

- * HPE SimpliVity 325 Gen10
- * HPE SimpliVity 380 Gen 10 LFF H
- * HPE SimpliVity 380 Ge10G

QUESTION 16

Hyper Protected refers to which HPE SimpliVity ability?

- * Backup or restore 1TB VM in less than 1 minute.
- * Restore individual files from a VM backup.
- * Define a storage policy using RAID 6 or RAID 60 to protect the VM.
- * Integrate with Veeam to provide an external backup solution.

QUESTION 17

A customer is analyzing data using HPE InfoSight for HPE SimpliVity. They found that the Total Data Stored

for a VM is significantly higher than the VM Storage Usage in vCenter. How do you explain these findings?

- * The VM is configured with RF3.
- * The Total Data Stored includes VM data, local backups, and remote backups.
- * The Total Data Stored includes the datastore size and its replicas.
- * The VM was thick provisioned.

QUESTION 18

Which functionality does HPE InfoSight for HPE SimpliVity provide?

- * balance workloads across HPE SimpliVity nodes based on utilization
- * recommendation for guest operating system settings optimization
- * automated firmware and software upgrades for registered customers
- * monitoring of virtual machine latency

QUESTION 19

Which HPE SimpliVity Data Visualization Platform layer is responsible for storage and tracking of all data and metadata?

- * Persistent Storage layer
- * Presentation layer
- * Data Management layer
- * object Storage layer

The Persistent Storage layer is the lowest layer of the HPE SimpliVity Data Visualization Platform. It is responsible for storing and tracking all data and metadata on the HPE SimpliVity nodes. It uses a distributed file system that spans across all nodes in a cluster, and provides high availability, scalability, and performance. The Persistent Storage layer also integrates with the HPE OmniStack Accelerator Card, which enables accelerated data efficiency, global unified management, and built-in data protection¹². References: HPE SimpliVity Data Virtualization Platform technical white paper, SimpliVity Data Virtualization Platform Architecture – YouTube

QUESTION 20

You are designing a new HPE SimpliVity solution. You want to confirm your configuration is compatible and supported with the customer requirements. Which items can you find in the HPE SimpliVity mniStack Interoperability Guide? (Select two.)

- * GPU Accelerators
- * ESXi version

- * Guest S version
- * vSphere License
- * Processor model

The HPE SimpliVity OmniStack Interoperability Guide is a document that provides the information about the supported hardware and software components for the HPE SimpliVity solution, such as the HPE SimpliVity nodes, the VMware ESXi hosts, the VMware vCenter Server, the HPE OmniStack software, the HPE SimpliVity Arbiter, and the guest operating systems¹. The guide also provides the compatibility matrix and the configuration guidelines for the HPE SimpliVity solution. The ESXi version (option B) and the guest OS version (option C) are two items that can be found in the HPE SimpliVity OmniStack Interoperability Guide, as they are essential for the proper functioning and performance of the HPE SimpliVity solution. The guide lists the supported ESXi versions for each HPE SimpliVity node model and HPE OmniStack software version, as well as the supported guest OS versions for each HPE SimpliVity node model¹. The GPU accelerators (option A), the vSphere license (option D), and the processor model (option E) are not items that can be found in the HPE SimpliVity OmniStack Interoperability Guide, as they are not relevant or required for the HPE SimpliVity solution. The GPU accelerators are not supported by the HPE SimpliVity solution, as they are not compatible with the HPE SimpliVity nodes². The vSphere license is not specified by the HPE SimpliVity solution, as it depends on the customer's choice and needs³. The processor model is not listed by the HPE SimpliVity solution, as it is already determined by the HPE SimpliVity node model⁴. References:

- 1: HPE SimpliVity OmniStack Interoperability Guide 4.2.0, HPE, 2021, pp. 1-25.
- 2: HPE SimpliVity 380 Gen10 Node Data sheet, HPE, 2019, p. 5.
- 3: Using HPE SimpliVity Official Certification Study Guide (HPE2-K45), HPE Press, 2019, p. 27.
- 4: Using HPE SimpliVity Official Certification Study Guide (HPE2-K45), HPE Press, 2019, p. 17.

QUESTION 21

A customer is planning to deploy VDI infrastructure on HPE SimpliVity platform. They are considering

implementing stretched cluster. Which statement regarding the design of a stretched cluster is true?

- * Stretched clusters need additional licenses for VDI workloads,
- * Stretched clusters support up to 96 HPE SimpliVity hosts.
- * An Arbiter should be placed in a primary site and replicated to the secondary site.
- * Both Linked clones and Full clones are supported on a stretched cluster.

QUESTION 22

You want to use Lanamark to collect information from an existing customer environment to support the solution design process. The customer informed you that the existing ESXi infrastructure is not connected to the internet.

What can you do to collect the data using Lanamark?

- * Using REST API, retrieve performance data from HPE neView and upload to Lanamark analyzer.
- * Ask the customer to install a Lanamark agent on each ESXi server, and deploy a log collector on the workstation within the same network.
- * Download performance data collected by the vCenter Server, and upload them to Lanamark.
- * Download Lanamark Snap and use it to collect the data, and then upload manually to the Lanamark portal.

According to the HPE SimpliVity Solution Design Guide¹, Lanamark is a cloud-based service that collects and analyzes data from customer environments to support the solution design process. Lanamark can collect data from various sources, such as vCenter Server, Hyper-V, XenServer, physical servers, and storage arrays.

However, if the customer environment is not connected to the internet, Lanamark Snap can be used to collect the data offline and then upload it manually to the Lanamark portal. Lanamark Snap is a portable tool that can be downloaded from the Lanamark portal and run on any Windows workstation that has access to the customer environment. Lanamark Snap can connect to the vCenter Server and collect the performance data from the ESXi hosts and virtual machines. Lanamark Snap can also collect data from other sources, such as physical servers and storage arrays, by using agents or scripts. Lanamark Snap saves the collected data in a compressed file that can be uploaded to the Lanamark portal for analysis and reporting.

Therefore, the correct answer is D. Download Lanamark Snap and use it to collect the data, and then upload manually to the Lanamark portal, as this is the best option to collect data from an ESXi infrastructure that is not connected to the internet.

References:

1: HPE SimpliVity Solution Design Guide,

<https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00019351enw>, page 15-16

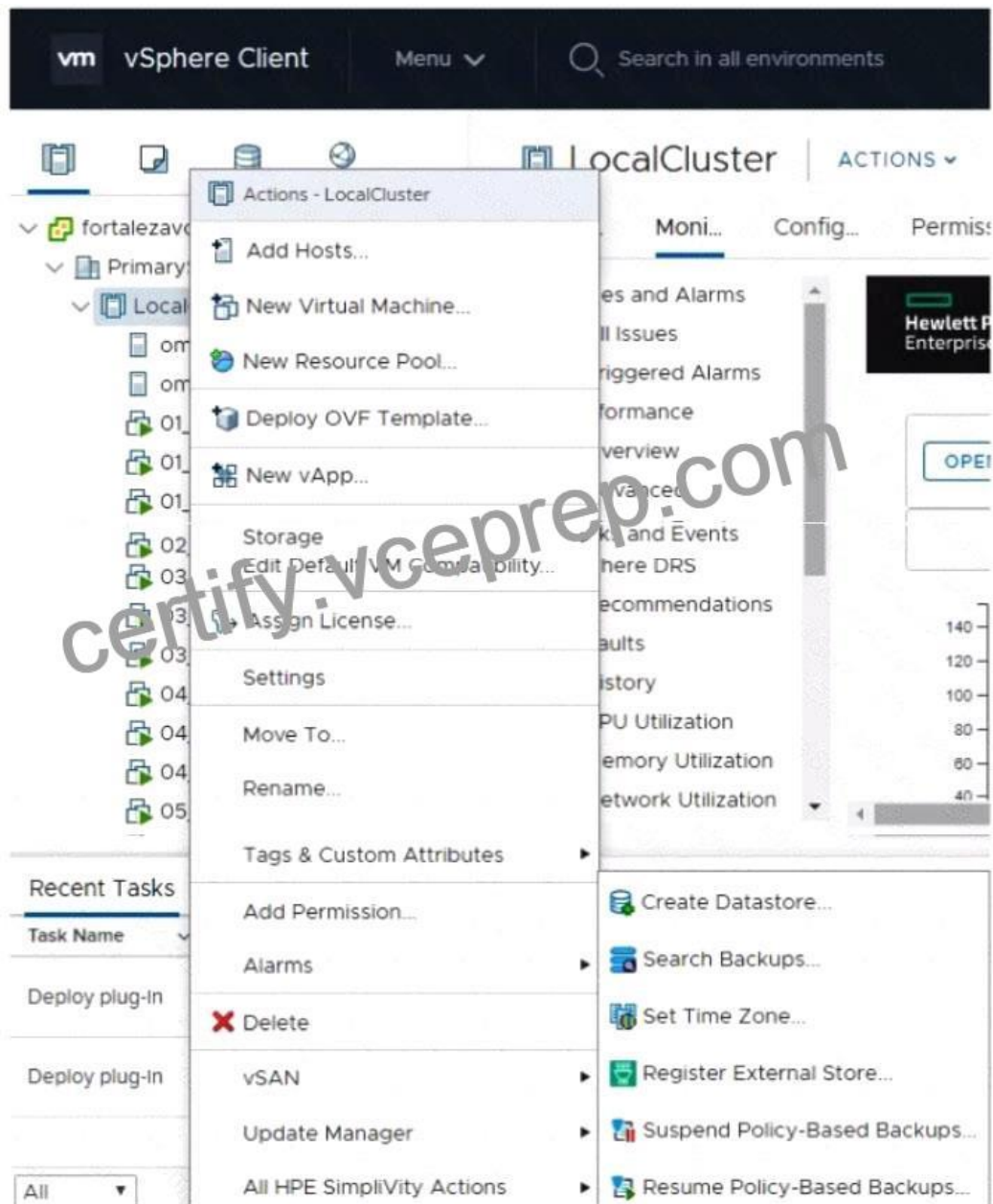
QUESTION 23

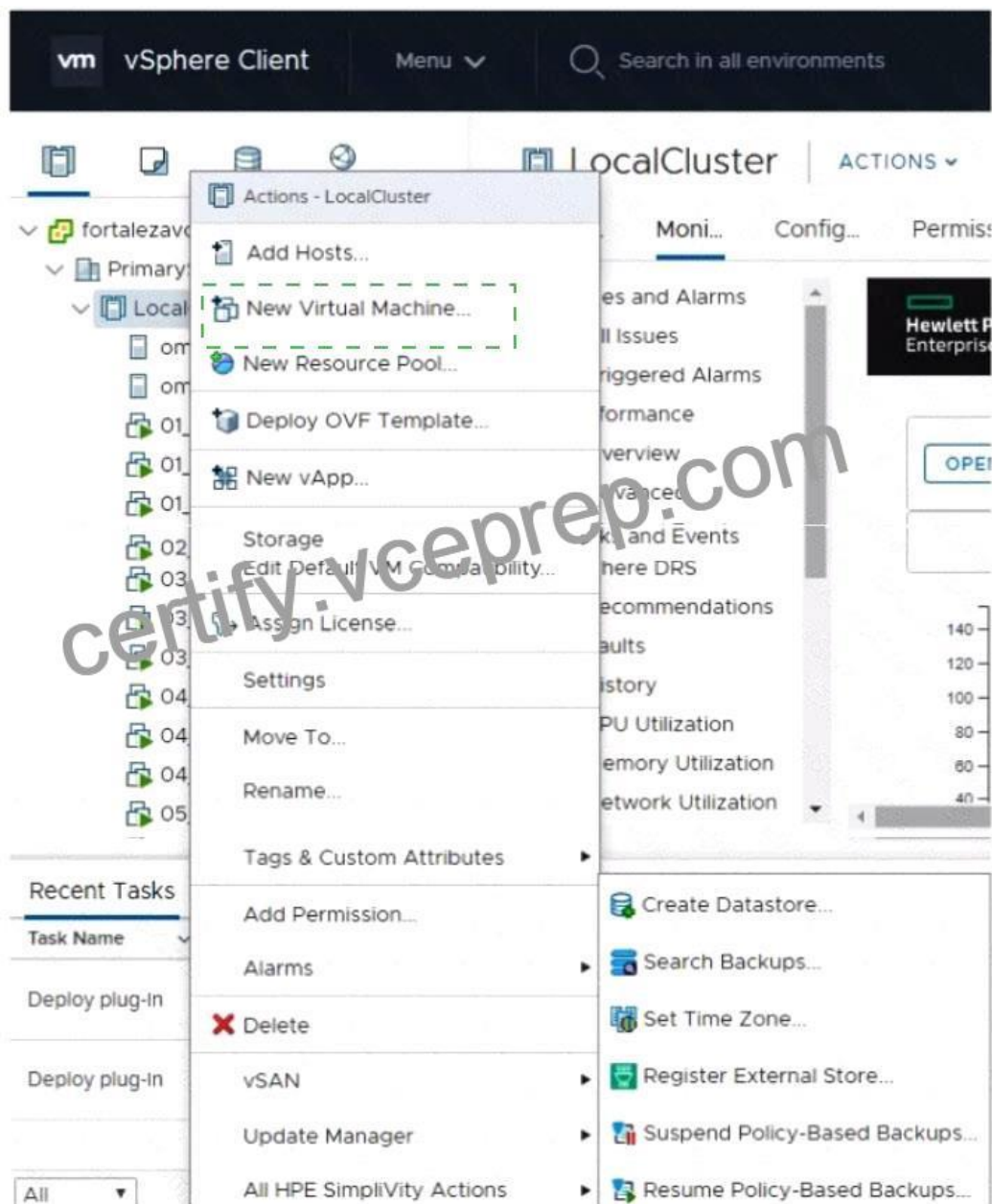
In an HPE SimpliVity 10-node cluster, a simultaneous increase of 10 requests across several VM caused a surge in 10 traffic in a single node. Which HPE SimpliVity feature can evenly distribute the 10s across the cluster?

- * Resource Balancer
- * Management Virtual Appliance
- * Arbiter
- * Intelligent Workload optimizer

QUESTION 24

Click the option that will allow you to integrate HPE SimpliVity with HPE Storence.





QUESTION 25

You are designing an HPE SimpliVity solution with HPE Storence.

Which design aspects will you evaluate to optimize replication performance?

- * Performance optimization features provided by VMFS datastores compared to NFS datastores
- * Number of the HPE SimpliVity clusters and Catalyst stores used
- * Intelligent Workload optimizer settings
- * HPE SimpliVity model used

HPE SimpliVity is a hyperconverged infrastructure solution that combines compute, storage, networking, and data services in a single platform. HPE SimpliVity integrates with HPE StoreOnce, a disk-based backup appliance, to provide efficient and reliable data protection and disaster recovery for distributed edge sites¹².

HPE SimpliVity uses HPE StoreOnce Catalyst, a deduplication protocol, to replicate data from HPE SimpliVity clusters to HPE StoreOnce appliances. HPE SimpliVity leverages its global deduplication and compression capabilities to send only the unique data blocks to HPE StoreOnce, reducing the bandwidth and storage requirements³⁴.

To optimize the replication performance, the design aspects that need to be evaluated are the number of the HPE SimpliVity clusters and Catalyst stores used. According to the HPE SimpliVity with HPE StoreOnce Reference Architecture document, the following best practices are recommended:

Use one Catalyst store per HPE SimpliVity cluster. This simplifies the configuration and management, and avoids potential performance issues due to contention or fragmentation.

Use one Catalyst store per HPE StoreOnce appliance. This ensures optimal deduplication ratios and avoids unnecessary data movement across appliances.

Use one HPE StoreOnce appliance per HPE SimpliVity federation. This minimizes the network hops and latency, and maximizes the throughput and efficiency.

Use dedicated network interfaces and VLANs for the replication traffic. This isolates the replication traffic from the production traffic, and provides better security and performance.

The other options are not relevant for optimizing the replication performance. The performance optimization features provided by VMFS datastores compared to NFS datastores are not applicable for HPE SimpliVity, as it uses its own file system and data virtualization platform. The intelligent workload optimizer settings are not related to the replication performance, but to the VM placement and load balancing within the HPE SimpliVity cluster. The HPE SimpliVity model used does not affect the replication performance, as long as it meets the minimum requirements for the HPE StoreOnce integration.

References:

1: SimpliVity Hyperconverged | HPE 2: Expand backups to secondary storage with HPE SimpliVity hyperconverged infrastructure and HPE StoreOnce 3: HPE SimpliVity with HPE StoreOnce 4: HPE SimpliVity with HPE StoreOnce: A better together story : [HPE SimpliVitywith HPE StoreOnce Reference Architecture] : [HPE SimpliVity Data Virtualization Platform] : [HPE SimpliVity Intelligent Workload Optimizer]

QUESTION 26

What are the requirements for stretched cluster implementation?

- * Arbiter located in the primary site
- * Round trip latency below 50ms
- * A direct-connected network configuration
- * The same subnet for the storage network for both locations

QUESTION 27

A customer plans to deploy HPE SimpliVity 380 Gen10 LFF H and HPE SimpliVity 380 Gen10 SFF H nodes.

What should you recommend for this setup?

- * Put each type of the nodes in a different federation.
- * Replace the LFF nodes with all-flash nodes.
- * Put all of the nodes in the same cluster.
- * Put SFF and LFF nodes in separate clusters.

QUESTION 28

A customer wants to provide access to the HPE SimpliVity datastores for compute nodes running

CPU-intensive virtual machines. What should you tell the customer?

- * It is supported to connect up to 5 compute nodes per SimpliVity node.
- * Additional license is required to connect ESXi nodes to SimpliVity datastores.
- * Connecting ESXi compute nodes is possible only when VMFS datastores are configured at SimpliVity

Federation level

- * Compute nodes must reside in the same cluster as HPE SimpliVity nodes.

QUESTION 29

A customer plans to use HPE SimpliVity RapidDR, but is concerned about vCenter Server license cost. In

which deployment scenario is only a single vCenter Server required?

- * when less than 600 VMs is covered with a single recovery plan
- * when Enhanced Linked Mode is enabled for vCenter
- * when Intelligent Workload optimizer is disabled
- * when federation is managed centrally

QUESTION 30

Refer to exhibit:

| Virtual machine name | Timestamp | Status | Size | Initial Backup Size | Unique Size Calculation Time | Sent Size | Sent Duration | Size |
|---------------------------|------------------|-----------|----------|---------------------|------------------------------|-----------|---------------|------|
| 01_Win01_FOR | 2/22/20, 7:00 PM | Protected | 489.1 GB | 52.7 MB | 2/22/20, 7:24 PM | 8.0 MB | 30 secs | 2.7 |
| | 2/22/20, 7:20 PM | Protected | 489.1 GB | 0.0 KB | | 0.0 KB | | |
| | 2/22/20, 7:10 PM | Protected | 489.1 GB | 0.0 KB | | 0.0 KB | | |
| | 2/22/20, 7:00 PM | Protected | 489.1 GB | 0.0 KB | | 0.0 KB | | |
| | 2/22/20, 6:50 PM | Protected | 489.1 GB | 0.0 KB | | 0.0 KB | | |
| 2020-02-22T12:40:00-05:00 | 2/22/20, 6:40 PM | Protected | 489.1 GB | 0.0 KB | | 0.0 KB | | |
| 2020-02-22T12:30:00- | 2/22/20, 6:30 PM | Protected | 489.1 GB | 0.0 KB | | 0.0 KB | | |

You are using Restore Virtual Machine for a given virtual machine. Which result is achieved by this operation?

- * Virtual machine boot partition mapped as IS image to another VM
- * New snapshot added to existing virtual machine
- * New linked-clone created
- * New virtual machine created out of this backup

QUESTION 31

A customer wants to provide access to the HPE SimpliVity datastores for compute nodes running CPU-intensive virtual machines. What should you tell the customer?

- * It is supported to connect up to 5 compute nodes per SimpliVity node.
- * Additional license is required to connect ESXi nodes to SimpliVity datastores.
- * Connecting ESXi compute nodes is possible only when VMFS datastores are configured at SimpliVity

Federation level

- * Compute nodes must reside in the same cluster as HPE SimpliVity nodes.

QUESTION 32

Which HPE SimpliVity model can be equipped with the HPE mniStack Accelerator card?

- * HPE SimpliVity 380 Gen10
- * HPE SimpliVity 2600
- * HPE SimpliVity 380 Gen10 H
- * HPE SimpliVity 325 Gen10

QUESTION 33

A customer wants to provide access to the HPE SimpliVity datastores for compute nodes running CPU-intensive virtual machines. What should you tell the customer?

- * Additional license is required to connect ESXi nodes to SimpliVity datastores.
- * Connecting ESXi compute nodes is possible only when VMFS datastores are configured at SimpliVity Federation level
- * Compute nodes must reside in the same cluster as HPE SimpliVity nodes.
- * It is supported to connect up to 5 compute nodes per SimpliVity node.

HPE SimpliVity allows customers to connect ESXi compute nodes to HPE SimpliVity datastores without additional license or configuration. This enables customers to leverage the data efficiency and protection features of HPE SimpliVity for their compute-intensive workloads. However, the compute nodes must reside in the same cluster as HPE SimpliVity nodes, and they must be authorized by HPE SimpliVity to access the NFS datastores. The number of compute nodes per cluster is limited by the maximum number of hosts supported by VMware vSphere. References: HPE SimpliVity User Guide; HPE SimpliVity Compute Node Software Installation and Startup Service

QUESTION 34

At which level you can apply a backup policy?

- * cluster
- * datacenter
- * vCenter Server

* datastore

You can apply a backup policy at the datastore level, as this is the level at which HPE SimpliVity manages the virtual machines and their backups¹. A backup policy consists of one or more rules that specify the destination, frequency, and retention of the backups. You can assign a backup policy to a datastore, and all the virtual machines in that datastore will inherit the backup policy. You can also override the backup policy for individual virtual machines, if needed². Applying a backup policy at the cluster level (option A), the datacenter level (option B), or the vCenter Server level (option C) is not possible, as these are not the levels at which HPE SimpliVity manages the virtual machines and their backups. These levels are used for organizing and managing the ESXi hosts and the HPE SimpliVity nodes, but not for applying backup policies.

References:

1: Using HPE SimpliVity Official Certification Study Guide (HPE2-K45), HPE Press, 2019, p. 28.

2: HPE SimpliVity OmniStack Interoperability Guide 4.2.0, HPE, 2021, p. 8.

QUESTION 35

You try to delete an existing datastore, but the operation fails. What is a likely cause of the failure?

- * The datastore is marked as read-only.
- * The FC connection between the host and array has failed.
- * The management network for a host is disconnected.
- * This datastore is not added to your scope.

Updated Verified HPE2-K45 Q&As - Pass Guarantee: <https://www.vceprep.com/HPE2-K45-latest-vce-prep.html>]