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NS0-525

NetApp Certified Implementation Engineer, Data Protect

Version 1.0

Exam A

QUESTION 1
You have successfully deployed a primary and a secondary ONTAP cluster. You want to set up an intercluster SnapMirror relationship between your primary and secondary sites. In

this scenario, which two actions are required before accomplishing this task? (Choose two.)

A. NDMP must be enabled.
B. The SVMs must be peered.
C. The primary and secondary clusters must be peered.
D. The Snapshot schedule must be configured.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.netapp.com/us/media/tr-4015.pdf

QUESTION 2
A customer wants to set up an SVM DR relationship to protect a source SVM that is dedicated for NAS file services. The source and destination clusters are running ONTAP 9.5.

In this scenario, which application accomplishes this task?

A. OnCommand Unified Manager
B. OnCommand System Manager
C. SnapCenter
D. Snap Creator

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
After deploying an ONTAP Select 2 node HA cluster at a remote site, you successfully perform manual takeover and giveback before placing the cluster into production. After the cluster runs in production for a week, you notice that you can no longer perform a manual takeover.

In this scenario, what are two causes of this problem? (Choose two.)

A. There is a network disruption between sites.
B. ONTAP Deploy has been deleted.
C. The vSphere HA service has failed.
D. The HA interconnect cables have been removed.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:
Reference: https://library.netapp.com/ecmdocs/ECMP1196905/html/GUID-A43A4EB9-B618-4D45-BF00-4FA757254F4C.html

QUESTION 4
A customer's infrastructure consists of multiple ONTAP clusters, both physical and virtual. The clusters replicate some data with each other. You want to generate a comprehensive report of all the replication that is present on the infrastructure.

In this scenario, which tool accomplishes this task?

A. OnCommand System Manager
B. Storage Replication Adapter
C. OnCommand Unified Manager
D. OnCommand Workflow Automation

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
You have set up a SnapMirror relationship between two SVMs for data protection. The data in the source volume is unavailable due to an event related to a virus infection leading to data corruption. In

this scenario, which three actions are required to activate the SnapMirror destination volume and provide data access to the users? (Choose three.)

A. Perform a SnapMirror quiesce operation.
B. Disable the source volume by taking it offline.
C. Configure the destination volume for data access.
D. Verify the status of the source and destination volumes.
E. Perform a SnapMirror break operation.

Correct Answer: CDE
Section: (none)
Explanation

Explanation/Reference:
Reference: https://library.netapp.com/ecmdocs/ECMP1196991/html/GUID-264EA25B-C4CA-4441-AFCD-FBF39D6C40A0.html

QUESTION 6
Click the Exhibit button.

Refine Search Criteria

Sort ▾ | Polices & Giudelines | Generate URL | Filters | Clear

▲ SnapCenter Server (10)

SnapCenter Server
Search Components

☑ SnapCenter Server 4.1.1
SnapCenter Server 1.0
SnapCenter Server 1.0.1
SnapCenter Server 1.1
SnapCenter Server 2.0
SnapCenter Server 3.0
SnapCenter Server 3.0.1
SnapCenter Server 4.0
SnapCenter Server 4.1

Host OS (OS)
Search Components

SE (64-bit, x64)
☐ Microsoft Windows Server 2012 SE (64-bit, x64)
☐ Microsoft Windows Server 2016 DCE 64-bit, x64
☐ Microsoft Windows Server 2016 SE 64-bit, x64
☐ Microsoft Windows Server 2019 DCE 64-bit, x64
☐ Microsoft Windows Server 2019 SE 64-bit, x64

SnapCenter Host Plugin
Search Components

☐ SnapCenter Host Plug-in 4.1 for Microsoft Windows
☐ SnapCenter Host Plug-in 4.1 for UNIX
☐ SnapCenter Host Plug-in 4.1.1 for Microsoft Windows
☐ SnapCenter Host Plug-in 4.1.1 for UNIX
SnapCenter Host Plug-in 1.0 for Microsoft Windows
SnapCenter Host Plug-in 1.0.1 for Microsoft Windows

SnapCenter Application Plugin
Search Components

☐ SnapCenter Custom Plug-in 4.1
☐ SnapCenter Custom Plug-in 4.1.1
☐ SnapCenter Custom Plug-in 4.1 for Microsoft Exchange Server
☐ SnapCenter Custom Plug-in 4.1 for Microsoft SQL Server
☐ SnapCenter Custom Plug-in 4.1 for Oracle Database
☐ SnapCenter Custom Plug-in 4.1 for SAP HANA

Virtual Storage Console (VMware)
Search Components

NetApp Virtual Storage Console (VMware) 2.0
NetApp Virtual Storage Console (VMware) 2.1
[EOVS] NetApp Virtual Storage Console (VMware) 6.1
[EOVS] NetApp Virtual Storage Console (VMware) 6.2
[EOVS] NetApp Virtual Storage Console (VMware) 6.2.1

Browser
Search Components

☐ Google Chrome 53
☐ Google Chrome 54
☐ Google Chrome 55
☐ Google Chrome 64.0
☐ Google Chrome 66.0
☐ Microsoft Edge 25.0
☐ Microsoft Edge 38.0
☐ Microsoft Internet Explorer 11.0
☐ Microsoft Internet Explorer 11.0

SnapCenter Hypervisor Plugin
Search Components

☐ SnapCenter Plug-in 4.1 for VMware vSphere
☐ SnapCenter Plug-in 4.1.1 for VMware vSphere
SnapCenter Plug-in 3.0 for VMware vSphere
SnapCenter Plug-in 3.0.3 for VMware vSphere
SnapCenter Plug-in 4.0 for VMware vSphere

Referring to the exhibit, what two Search Criteria check boxes need to be used to provide a supported solution for protecting Windows Server 2019 DCE 64-bit, x64 host using local NetApp LUNs with SnapCenter Server 4.1.1? (Choose two.)

A. SnapCenter Application Plugin
B. SnapCenter Host Plugin
C. Browser
D. Host OS (OS)

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
You are deploying a mission-critical business application for a healthcare customer that, according to government policies and regulations, requires zero data loss.

In this scenario, which NetApp solution enables you to set up data replication at a volume level to satisfy your business needs?

A. MetroCluster

B. SnapMirror-Synchronous

C. SnapShot Copies

D. SyncMirror

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://blog.netapp.com/modernize-your-data-protection-with-snapmirror-synchronous/

QUESTION 8
A customer is using SnapMirror to replicate their data to a remote site. They notice that storage efficiency is nor preserved, and the amount of data at the destination is higher than expected.

In this scenario, which configuration in the destination volume would cause this issue?

A. Post process deduplication is enabled on the destination.

B. The volumes are not thin-provisioned on the destination.

C. Post process compression is enabled on the destination.

D. There is an existing FlexClone volume on the destination.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.netapp.com/us/media/tr-4015.pdf

QUESTION 9 You have deployed volume-level replication with NetApp Synchronous SnapMirror
replication technology.

In this scenario, which two statements are true? (Choose two.)

A. In Sync mode, the application I/O fails if the write to the secondary storage is not completed, thereby ensuring that the primary and secondary storage are identical.

B. In StrictSync mode, the application is allowed to continue writing to the primary storage if the write to the secondary storage is not completed.

C. In Sync mode, the application is allowed to continue writing to the primary storage if the write to the secondary storage is not completed.

D. In StrictSync mode, the application I/O fails if the write to the secondary storage is not completed, thereby ensuring that the primary and secondary storage are identical.

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:
Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.pow-dap%2FGUID-5080DA69-478E-40ED-87A8-CA506DD00C9D.html

QUESTION 10
A customer has deployed OnCommand Unified Manager and wants to use it to manage their data protection relationships within their NetApp storage infrastructure.

In this scenario, which additional component must be deployed to satisfy this requirement?

A. OnCommand System Manager

B. NetApp SnapCenter

C. OnCommand Cloud Manager

D. OnCommand Workflow Automation

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.netapp.com/us/media/tr-4621.pdf (21)

QUESTION 11
Click the Exhibit button.

Supported Adapter Cards - FAS9000 (Single Chassis HA Pair (FAS9000A)) 9.5 ONTAP

Priority	Category	Bus Type	Mktg Part No.	Mfg Part No	Description	Optional Module	Supported Speed(s)	Min ONTAP	Max Qty	Priority Slot Assignment
1	NVRAM	IO Module	X93140A	111-03190	NVRAM10 32GB	Not supported		9.1RC2. 9.2RC1 9.3RC1. 9.4RC1. 9.5RC1.	1	6
2	Networking	IO Module	X91440A	111-02590	2p 40GbE NIC Cu|Op	OSPF Optional	ETH: 10/40 Gbps	9.1RC2. 9.2RC1. 9.3RC1. 9.4RC1. 9.5RC1.	8	4, 6, 9, 1, 10, 2, 11, 3, 7, 5
3	Block Access	IO Module	X91135A	111-03789	4p 32Gb FC SFP+Op	SFP+ Included	FC: 8/16/32 Gbps FC-NVMe: 16/32 Gbps	9.3RC1. 9.4RC1. 9.5RC1.	8	9, 1, 10, 2, 11, 3, 7, 8
4	Block Access	IO Module	X91134A	111-03431	2 p 32Gb FC Op	SFP+ Included	FC: 8/16/32 Gbps FC-NVMe: 16/32 Gbps	9.1RC2. 9.2RC1. 9.3RC1. 9.4RC1. 9.5RC1.	8	9, 1, 10, 2, 11, 3, 7, 5, 8
5	Performance Acceleration	IO Module	X9170A	111-00421	Flash Cache.1.0TB NVMe, Module	Not supported		9.1RC2. 9.2RC1. 9.3RC1. 9.4RC1. 9.5RC1.	2	61, 62
6	Performance Acceleration	IO Module	X9172A	108-00423	Flash Cache.4.0TB NVMe, Module	Not supported		9.1RC2. 9.2RC1 9.3RC1. 9.4RC1. 9.5RC1.	2	61, 62
7	Block Access	IO Module	X91143A	111-02397	4p 16Gb|10Gb UTA2 Cu|Op	SFP+ Optional	ETH: 1/10 Gbps FC: 4/8/16 Gbps	9.1RC2. 9.2RC1. 9.3RC1. 9.4RC1. 9.5RC1.	8	9, 1, 10, 2, 11, 3, 7, 5, 8
8	Networking	IO Module	X91143A	111-02397	4p 16Gb|10Gb UTA2 Cu|Op	SFP+ Optional	ETH: 1/10 Gbps FC: 4/8/16 Gbps	9.1RC2. 9.2RC1. 9.3RC1. 9.4RC1. 9.5RC1.	8	9, 1, 10, 2, 11, 3, 7, 5, 8
9	Networking	IO Module	X91120A	111-02399	4p 10GBASE-T NIC	Not supported	ETH: 1/10 Gbps	9.1RC2. 9.2RC1. 9.3RC1. 9.4RC1. 9.5RC1.	8	9, 1, 10, 2, 11, 3, 7, 5, 8
10	Storage	IO Module	X91135A	111-03789	4p 32Gb FC SFP* Op	SFP+ Included	FC: 8/16/32 Gbps FC-NVMe: 16/32 Gbps	9.3RC1. 9.4RC1. 9.5RC1.	8	9, 1, 10, 2, 11, 3, 7, 8
11	Storage	IO Module	X91143A	111-02397	4p 16 Gb|10Gb UTA2 Cu|Op	SFP+ Optional	ETH: 1/10 Gbps FC: 4/8/16 Gbps	9.1RC2. 9.2RC1. 9.3RC1. 9.4RC1. 9.5RC1.	8	9, 1, 10, 2, 11, 3, 7, 5, 8

A customer needs to add an additional X91143A card into a FAS9000 to allow mirroring between the production system and the disaster recovery FAS9000 platform. Slots 1, 4, 6, 8, and 9 have cards in them.

Referring to the exhibit, in which slot should you install the card?

A. 5
B. 10
C. 3
D. 7

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1001031/~/what-are-unified-target-adapter-%28uta2%29%2Fcna-ports-and-how-to-configure-them%3F-

QUESTION 12
A customer has a 2-node ONTAP Select HA cluster deployed on the same site. The ONTAP Deploy VM has been accidentally deleted. The 2-node ONTAP Select HA cluster is still serving data, but the storage failover capability has been disabled.

In this scenario, what would you do to reestablish the storage failover capability on your cluster?

A. Deploy two ONTAP Deploy VMs and a new 2-node ONTAP Select cluster and then migrate the data.
B. Deploy a secondary ONTAP Deploy VM and restore the 2-node cluster quorum.
C. Deploy two single-node ONTAP Select clusters and migrate all exiting data.
D. Deploy a new 4-node ONTAP Select cluster and distribute data from the existing cluster.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13
A customer is planning the cloud strategy for their Microsoft SQL databases and must be able to protect them from outages. They are planning on using multiple cloud providers for their solution with their current NetApp storage system.

In this scenario, which two products are required to satisfy their backup management needs? (Choose two.)

A. Cloud Volumes ONTAP
B. SnapCenter
C. CloudSync
D. FlashPool

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.netapp.com/us/media/tr-4757.pdf

QUESTION 14
Your customer wants to deploy 40 ONTAP clusters in their environment to protect client databases, Windows host file systems, applications, and virtual machines. One of the primary monitoring and system management requirements is to use a centralized dashboard for all application-consistent backups and REST API integration.

In this scenario, which NetApp management tool satisfies the requirements?

A. Element Manager
B. SnapCenter
C. OnCommand Unified Manager
D. OnCommand System Manager

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://library.netapp.com/ecm/ecm_get_file/ECMLP2440193 (06)

QUESTION 15 Your customer wants to implement SVM DR, but the customer is not certain whether the `identity-preserve` parameter should be enabled. The customer explains that the source and destination clusters are in different network subnets.

In this scenario, which SVM DR solution should the customer use?
A. SVM DR using the `identity-preserve` parameter disabled and the default SnapMirror policy.

B. SVM DR using the `identity-preserve` parameter enabled and then administratively take the data LIFs offline on the DR cluster.

C. SVM DR with the `identity-preserve` parameter enabled and a SnapMirror policy with the `discard-configs network` parameter.

D. SVM DR with the `identity-preserve` parameter enabled and the default SnapMirror policy.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference:

QUESTION 16
Click the Exhibit button.

```
                    Source Path: svm1:volume1
                Destination Path: svm2:volume1_1_BK
                Relationship Type: XDR
          Relationship Group Type: none
               SnapMirror Schedule: -
            SnapMirror Policy Type: sync-mirror
                 SnapMirror Policy: Sync
                       Tries Limit: -
                Throttle (KB/sec): unlimited
                      Mirror State: Snapmirrored
               Relationship Status: OutOfSync
               Snapshot Checkpoint: -
                   Newest Snapshot: snapmirror.6046316f-5a35-11e9-84ef-
00505689957a_2159386282.2019-04-09_125605
          Newest Snapshot Timestamp: 04/09 12:55:55
                 Exported Snapshot: snapmirror.6046316f-5a35-11e9-84ef-
00505689957a_2159386282.2019-04-09_125605
        Exported Snapshot Timestamp: 04/09 12:55:55
                           Healthy: false
                  Unhealthy reason: Transfer failed. (Job initiated abort)
            Destination Volume Node: cluster1-02
                   Relationship ID: ceb5ee6e-5ac6-11e9-8670-005056894144
                 Last Transfer Type: resync
                 Last Transfer Size: 9.22KB
 Last Transfer Network Compression Ratio: 1:1
             Last Transfer Duration: 0:0:11
                 Last Transfer From: svm1:volume1
         Last Transfer End Timestamp: 04/09 12:56:06
              Progress Last Updated: -
            Relationship Capability: 8.2 and above
                          Lag Time: 0:0:5
```

Referring to the exhibit, which two statements are true? (Choose two.)

A. The source volume is available for I/O.

B. A manual re-synchronization is not needed.C. The source volume is unavailable for I/O

D. A manual re-synchronization is needed.

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
Which two tools would you use to verify that an Oracle database has an application-consistent snapshot taken? (Choose two.)

A. SnapManager for Oracle
B. OnCommand System Manager
C. SnapCenter
D. OnCommand Unified Manager

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:
Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1001733/~/faq%3A-snapmanager-suite https://www.netapp.com/us/media/tr-4700.pdf

QUESTION 18 You want to configure peering between two existing
ONTAP HA clusters.

In this scenario, which three steps would you perform to accomplish this task? (Choose three.)

A. Create a cluster peering relationship.
B. Create intracluster LIFs.
C. Create intercluster LIFs.
D. Create a SVM peering relationship.
E. Create iSCSI LIFs.

Correct Answer: ACD
Section: (none)
Explanation

Explanation/Reference:
Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2496233 (7)

QUESTION 19
An administrator notices that a NAS volume has been filled completely by active data and Snapshot copies that have expanded over the Snap reserve. The volume is no longer writable. In

this scenario, which two actions must you take to make the volume writable again? (Choose two.)

A. Delete Snapshot copies until space is available.
B. Delete the files in the active file system.
C. Delete the SnapMirror relationships.
D. Delete the SnapVault relationships.
Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
Click the Exhibit button.

> ⚠️ Node "aff-02" has some LIFs that are not in their home node.

aff-01
✅ Online
Action ▼

aff-02
✅ Online
Action ▼
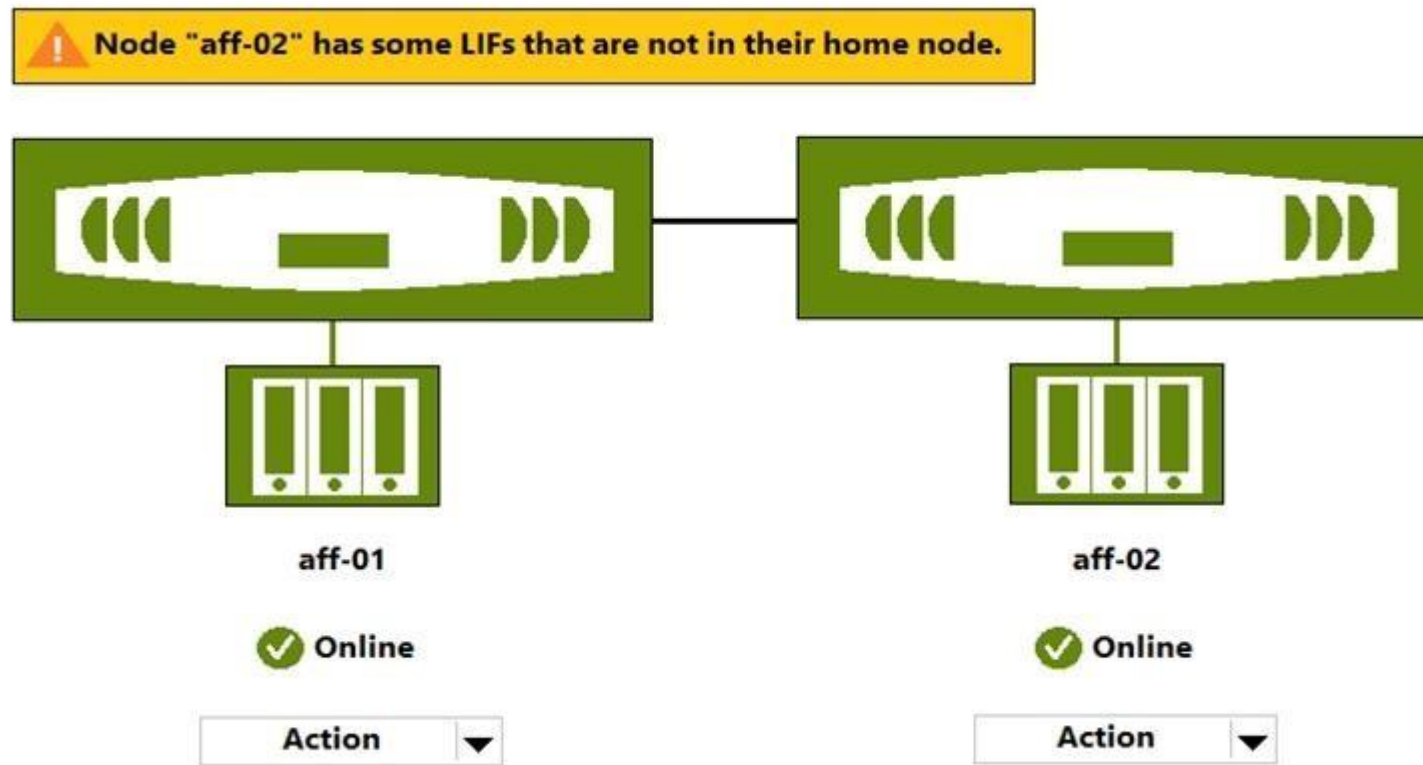
Referring to the exhibit, what must be performed on nodes aff-01 and aff-02 to allow them to failover and giveback properly?

A. Disconnect the HA connection between the nodes.
B. Reboot aff-02 to resolve the LIF issue.
C. No additional action is necessary.
D. Move the LIFs to their home ports.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://community.netapp.com/t5/FAS-and-V-Series-Storage-Systems-Discussions/LIF-Warning/td-p/133162

QUESTION 21
Click the Exhibit button.

Machine	Storage type
Physical server	FC-connected LUNs
	iSCSI-connected LUNs
	NFS-connected volumes
VMware ESX	RDM LUNs connected by an FC or iSCSI ESXi HBA
	iSCSI LUNs connected directly to the guest system by the iSCSI initiator
	VDMKs on VMFS or NFS datastores
	NFS volumes connected directly to the guest system

A customer is interested in using SnapCenter to support Snapshot copies with their Oracle DB. They virtualized their environment but do not have any block protocols available.

In this solution, which protocol shown in the exhibit is supported?

A. NFS
B. SMB3
C. iSCSI
D. FC

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22 You are creating a SnapVault relationship and have concerns about the available capacity on the destination.

In this scenario, which three factors must you consider when you size the destination volume? (Choose three.)

A. the autogrow settings on the source volume
B. the size of the source volume
C. the number of Snapshot copies to retain on the destination
D. the rate of data increase on the source
E. the number of Snapshot copies to retain on the source

Correct Answer: ACE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23 A customer wants to enforce prompt tiering when the cooling threshold has been reached. They want to do this even though the data may have been deleted or the data continues to exist in the primary file system.

In this scenario, which tiering policy should be used?

A. Auto
B. Snapshot-only
C. Backup
D. None

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.netapp.com/us/media/tr-4695.pdf (11)

QUESTION 24 You need to backup Exchange, MS SQL, and VMware virtual machines with application consistency.

Which tool accomplishes this task?

A. OnCommand System Manager
B. VMware vSphere Web client
C. SnapCenter
D. OnCommand Unified Manager

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: http://docs.netapp.com/ocsc-40/index.jsp?topic=%2Fcom.netapp.doc.ocsc-con%2FGUID-BEB418F9-F52D-489A-B464-586349330A87.html

QUESTION 25
You are working for a customer that has deployed a large FlexGroup with ONTAP 9.5. This FlexGroup has a SnapMirror relationship to a system at a disaster recovery site. The FlexGroup is nearly full and needs to be expanded to accommodate additional data.

In this scenario, what must you do to expand the FlexGroup and ensure that the data remains protected?

A. Break the SnapMirror relationship, expand the source FlexGroup, and update the SnapMirror.
B. Offline the source FlexGroup, add additional volumes, bring it online, and update the SnapMirror.
C. Expand the source FlexGroup nondisruptively, and update the SnapMirror.
D. Break the SnapMirror relationship, expand the source FlexGroup, and re-baseline the SnapMirror.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.netapp.com/us/media/tr-4678.pdf

QUESTION 26
Click the Exhibit button.

You want to restore a file from the engineering volume that is shown in the exhibit. When you click Restore in OnCommand Unified Manager, there are no files available to restore.

Referring to the exhibit, what caused this problem?

A. The engineering volume is currently online.
B. Workflow Automation is not configured to restore files from Snapshot copies.
C. No Snapshot copies exist for the engineering volume.
D. The engineering volume is unprotected.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
A client has a FlexVol volume that is 10 TB in size and is nearly full. The volume has a Snapshot reserve of 5%, that is currently utilized at 120%. They have chosen to enable ONTAP to automatically delete the oldest Snapshot copies with a volume threshold trigger in order to free space within the volume when it becomes necessary.

In this scenario, what amount of space would be made available to the client, without additional intervention?

A. 1000 GB
B. 500 GB

C. 50 GB
D. 100 GB

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28 A customer has ONTAP 9.5 clusters running at two nearby locations. The customer wants a zero RPO for one mission-critical volume.

In this scenario, which two NetApp solutions satisfy this requirement while using the existing ONTAP clusters? (Choose two.)

A. SnapMirror Synchronous in StrictSync mode
B. FabricPool
C. SnapMirror Synchronous in Sync mode
D. SyncMirror

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.netapp.com/us/media/tr-4733.pdf (09)

QUESTION 29
A customer wants to assign a user to a build-in SnapCenter RBAC Role that will allow them to review and start existing SnapMirror processes only.

In this scenario, which Role will allow the customer to accomplish this task?

A. App Backup and Clone Admin
B. Infrastructure Admin
C. Backup and Clone Viewer
D. SnapCenter Admin

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: http://docs.netapp.com/ocsc-42/index.jsp?topic=%2Fcom.netapp.doc.ocsc-con%2FGUID-1B427853-A758-45E8-A070-37CA0B3045B9.html

QUESTION 30 When you configure a SnapLock feature, where should the ComplianceClock be initialized?

A. on each aggregate that hosts a SnapLock volume
B. on each SVM that hosts a SnapLock volume
C. on each node that hosts a SnapLock aggregate
D. on all the nodes of the cluster

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.pow-arch-con%2FGUID-1087DB8C-6A72-4FDE-A5C2-444F0A1BFC1F.html **QUESTION 31**

A volume on a FabricPool-enabled aggregate is consuming 10 TB of the performance tier and 90 TB of the cloud tier. A SnapMirror copy needs to be created on a FabricPool-enabled peer cluster at a disaster recovery location.

In this scenario, how much data is transferred when the SnapMirror relationship is initialized?

A. 100 TB
B. 200 TB
C. 10 TB
D. 90 TB

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32
Click the Exhibit button.

SnapShot Name	SnapShot Time	SnapShot Delta
Nightly.0	12:05 am	5 GB
Hourly.0	10:00 pm	10 GB
Hourly.1	6:00 pm	25 GB
Hourly.2	2:00 pm	10 GB
Hourly.3	10:00 am	25 GB
Hourly.4	6:00 am	5 GB

A client has a SnapMirror relationship between two sites that is scheduled to run once a day at 12:15 a.m. They have a network connection between two sites that provides 100 Mbps on bandwidth. By performing the backup at this time, they can maximize their bandwidth use.

Referring to the exhibit, how long does the SnapMirror update take to finish?

A. one hour
B. four hours
C. three hours
D. two hours

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33
A customer has developed a new application that uses Oracle with an AFF system to help track all of their shipping trucks around the world. The customer wants to ensure that application-consistent backups are offloaded to the cloud.

In this scenario, which two solutions enable the customer to satisfy these requirements? (Choose two.)

A. FabricPool
B. Flash Pool
C. SnapCenter

D. FlexClone

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
A storage administrator is reviewing NAS volume space allocation and is concerned that the Snapshot copies that are recently created to protect the volumes are not storing the data from the volumes. One volume contains over 20 GB of data, although the latest SnapShot copy contains only 198 KB of data.

In this scenario, which statement is true?

A. ONTAP references metadata when creating Snapshot copies instead of copying data blocks.
B. The Snapshot policy is defined to create the Snapshot copy with only the most recent data changes.
C. ONTAP uses data from all Snapshot copies when restoring of the volume is necessary.
D. The Snapshot copies are created by using a background process that takes time to build.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://docs.netapp.com/ontap-9/topic/com.netapp.doc.dot-cm-concepts/GUID-BE5710C9-AA51-4D91-9FE8-8F5642B79297.html

QUESTION 35 You are creating daily SnapVault backups of a NAS volume that contains the data for your business critical application. You discover that corruption began two weeks ago on the data on that volume.

In this scenario, which statement is true?

A. The restore is disruptive, and all of the most recent Snapshot copies are preserved.
B. The restore is nondisruptive, and all of the most recent Snapshot copies are preserved.
C. The restore is disruptive, and all Snapshot copies that are older than two weeks are preserved.
D. The restore is nondisruptive, and all Snapshot copies that are older than two weeks are preserved.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
Click the Exhibit button.

Relationships

Your customer wants to protect a volume and replicate it to a secondary volume. The customer has tried to configure this relationship using OnCommand System Manager. Upon reviewing this newly configured relationship, you discover that the configuration does not satisfy the customer's stated requirements.

Referring to the exhibit, what should you do to ensure that the volume is protected?

A. Delete the relationship and recreate it.
B. Resynchronize the relationship.
C. Initialize the relationship.
D. Change the schedule to hourly.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37
Which two cloud providers allow you to provision Cloud Volumes ONTAP as a SnapMirror destination? (Choose two.)

A. Azure
B. DigitalOcean
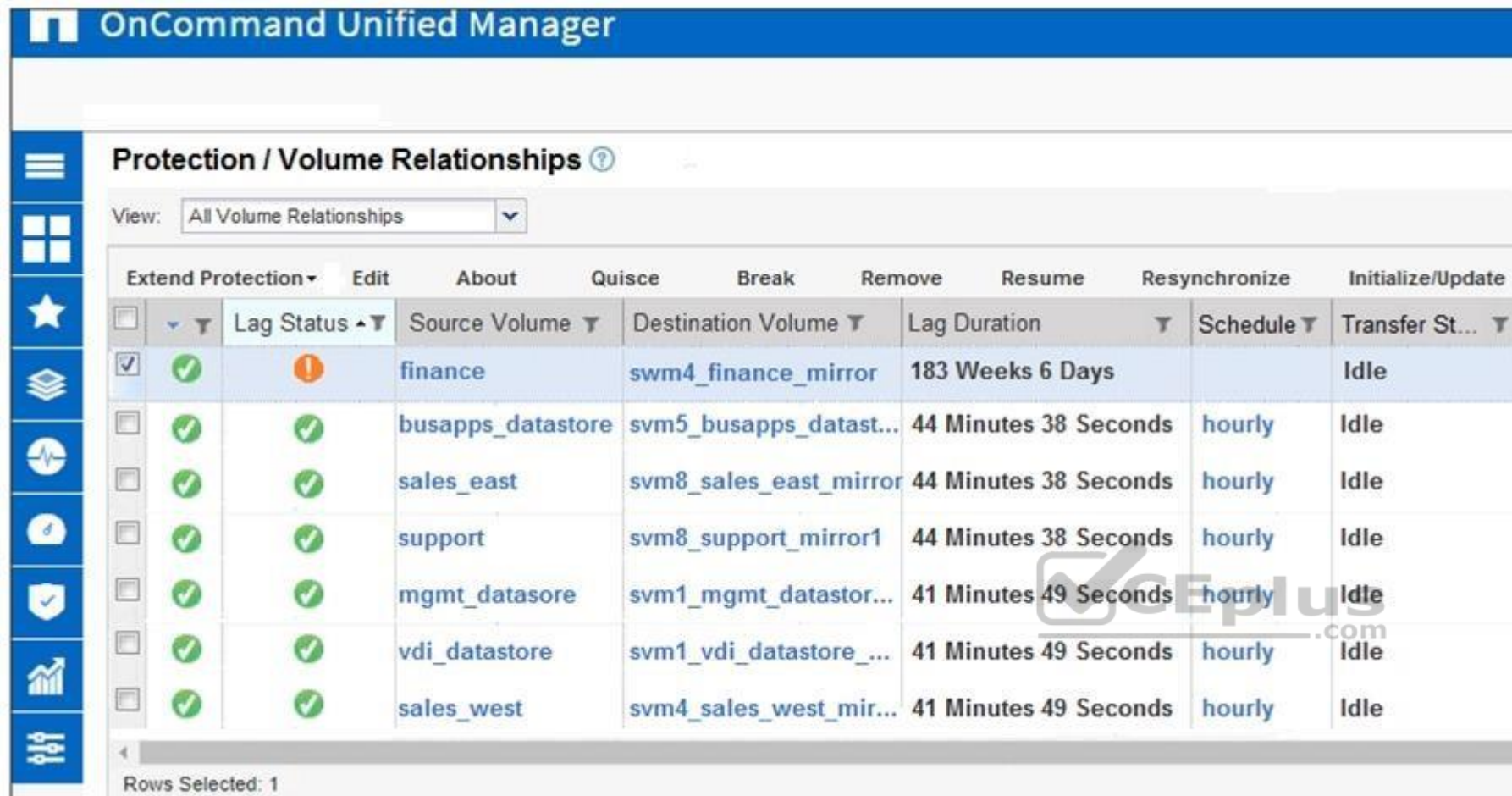C. AWS
D. RackSpace

Correct Answer: AC

Section: (none)
Explanation

Explanation/Reference:
Reference: https://cloud.netapp.com/blog/simplified-disaster-recovery-ontap-cloud-snapmirror

QUESTION 38
Click the Exhibit button.

You have been receiving the lag status error notifications shown in the exhibit.

What must you do to correct this problem?

A. Resynchronize the relationship.
B. Add a schedule to the relationship.
C. Fan out the relationship.
D. Quiesce the relationship.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2841387

QUESTION 39 A customer has application data corruption on a LUN that is in a volume with six other data LUNs. The customer needs to restore the corrupted LUN from a Snapshot copy without affecting the other six LUNs.

Which process would accomplish this task?

A. Use volume SnapRestore.
B. Use LUN mapping.
C. Use the volume Snapshot partial-restore file.
D. Use a single-file restore.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-sanag%2FGUID-AC8EEDBE-5565-49A3-9E80-584A9F8AED1B.html

QUESTION 40
An administrator wants to use SnapCenter 4.1 to back up and restore both their VMware Horizon environment and Microsoft SQL attached database.

In this scenario, which service account role should be configured to accomplish this task?

A. sysadmin
B. operator
C. backup
D. administrator

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2846467

QUESTION 41
You want to determine the amount of cold data that can be tiered from a FabricPool-enabled aggregate.

In this scenario, which feature satisfies this requirement?

A. Inactive Data Reporting
B. Information Lifecycle Management
C. Object Store Profiler
D. Auto Balance

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
First available in ONTAP 9.4, inactive data reporting (IDR) is an excellent tool for determining the amount of inactive (cold) data that can be tiered from an aggregate. IDR is enabled by default on FabricPool aggregates. More important, you can enable it on non-FabricPool aggregates by using the ONTAP CLI, to get visibility on how much you can gain by deploying FabricPool.

Reference: https://blog.netapp.com/cloud-connected-flash-new-fabricpool-capabilities-ontap-9-4/

QUESTION 42
A customer is using SnapCenter and they want to see details about: 1.) unprotected databases outside of resource groups, 2.) databases that have not been backed up during the report period, 3.) databases that belong to a resource group for which backups have failed, and 4.) the database SnapVault status.

In this scenario, which report type satisfies the requirements?

A. Backup Report
B. Clone Report

C. Plug-in Report
D. Restore Report

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2846072 (17)

QUESTION 43
You are monitoring data protection relationships of type XDR using OnCommand System Manager running ONTAP 9.5. In the GUI, you click Protection -> Volume Relationships.

In this scenario, which status in the Relationship State field must be displayed to ensure that the relationships are working as expected?

A. SnapMirrored
B. Uninitialized
C. InSync
D. Quiesced

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
A customer wants to set up SNMP to monitor their ONTAP platforms. Because of security reasons, they need strong authentication and data encryption?

In this scenario, which SNMP version satisfies these requirements?

A. v1
B. v3C. v2
D. v2c

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://support.huawei.com/enterprise/en/doc/EDOC1000177810/dab469bd/snmp-configuration-commands

QUESTION 45 Your customer needs to activate a destination SVM DR
following a disaster.

In this situation, which two actions should be performed? (Choose two.)

A. Shut down the source cluster.
B. From the destination cluster, break the SVM DR relationship.
C. From the source cluster, break the SVM DR relationship.
D. Start the destination SVM.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46

You want to modify the existing Snapshot copy schedule to allow for more granularity in your ability to recover data after a corruption or loss. In

this scenario, which two tools allow you to accomplish this task (Choose two.)

A. OnCommand System Manager
B. OnCommand Unified Manager
C. NetApp SnapCenter
D. ONTAP CLI

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47

Which two configurations would be used to protect volumes in a production ONTAP system at two different disaster recovery (DR) locations? (Choose two.)

A. SnapMirror in a fan-out topology
B. SVM DR in a cascade topology
C. SnapMirror in a cascade topology
D. SVM DR in a fan-out topology

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48

You are asked to protect your customer's Exchange environment. You deploy SnapCenter 4.1 and the plug-in for Microsoft Exchange Server. While creating the backup policy, you select the Full and Log Backup from the list of supported backup types.

In this scenario, what would the Full and Log Backup type allow you to protect within Exchange?

A. all databases but no transaction logs
B. all databases and all transaction logs
C. all uncommitted transaction logs and all of the databases
D. all transaction logs but none of the databases

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 49

Your customer is running an older cluster that uses Data ONTAP 8.1 Cluster-Mode. They would like to create a SnapMirror relationship with their new ONTAP 9.5 cluster.

In this scenario, what must the customer do to create the SnapMirror relationship?

A. The customer can create a DP type SnapMirror relationship without needing to perform an upgrade.

B. The customer must first upgrade the Data ONTAP 8.1 Cluster-Mode storage array to at least ONTAP 9.1 and then create the XDP SnapMirror relationship.
C. The customer must first upgrade the Data ONTAP 8.1 Cluster-Mode storage array to at least ONTAP 8.3 and then create the XDP SnapMirror relationship.
D. The customer can create a XDP type SnapMirror relationship without needing to perform an upgrade.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.netapp.com/us/media/tr-4015.pdf

QUESTION 50
You are asked to implement a DR solution to protect employee home directories on the primary cluster. The solution should provide an PRO of one hour, disaster recovery and archiving configured on the same destination volume of the DR cluster. Your solution should also reduce the amount of secondary storage requirements and use lower network traffic on the WAN links.

In this scenario, which NetApp replication technology satisfies these requirements?

A. SnapMirror-Sync
B. SyncMirror
C. MetroCluster
D. SnapMirror

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 51
A client has two regional offices that use SnapMirror cross-site replication to host disaster-recovery mirrors for both offices. A co-worker at one office is requesting read/write access to one of the volume mirrors. You must accomplish this task without interrupting data access or replication.

In this scenario. how should you proceed?

A. Create a FlexVol volume on the destination cluster so that it is writeable for the co-worker.
B. Create a FlexClone volume based on one of the Snapshot copies at the destination so that it is writeable for the co-worker.
C. Break the SnapMirror relationship between the local and remote clusters, and make the destination volume writeable for the co-worker.
D. Modify the export policy on the destination mirror volume so that it is now writeable for the co-worker.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
Data on an AFF system is replicated using SnapMirror to a FAS system that is configured with NL-SAS-based storage.

In this scenario, which storage efficiency is lost on the SnapMirror destination?

A. compaction
B. compression
C. aggregate-level deduplication
D. volume-level deduplication

Correct Answer: B

QUESTION 53
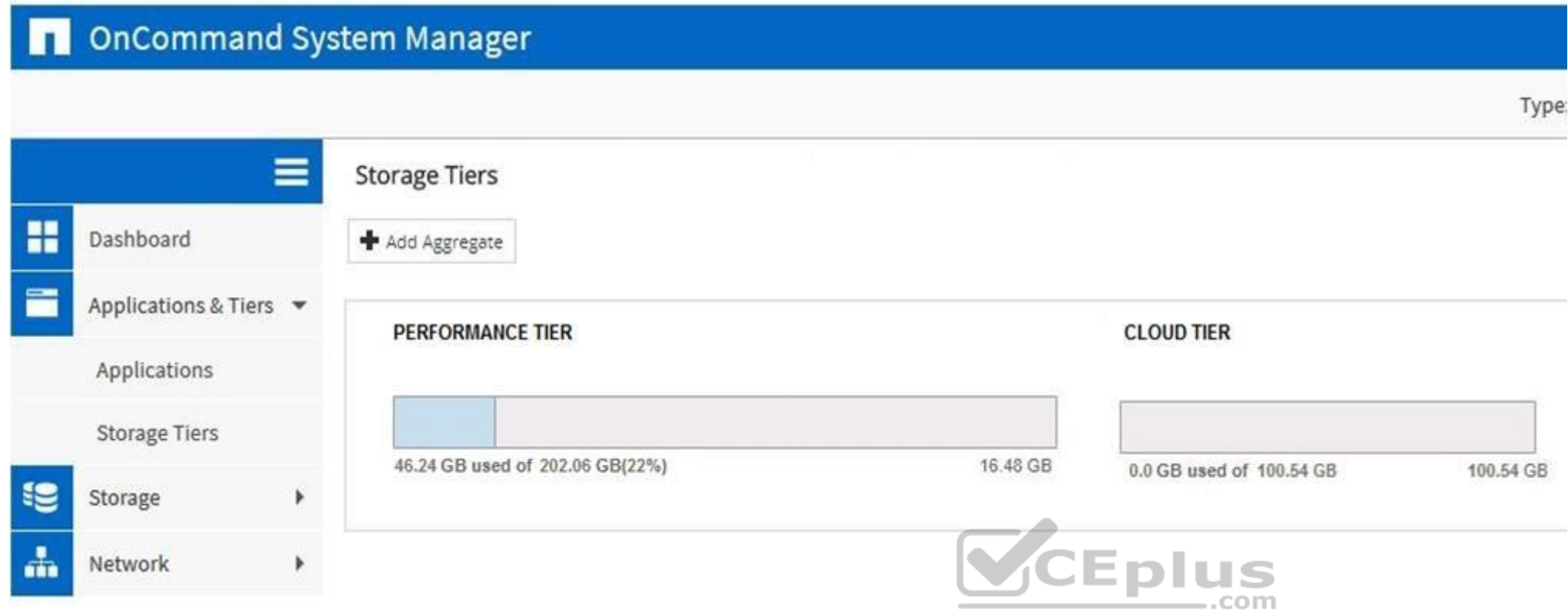Click the Exhibit button.

Your customer has recently implemented a FabricPool solution that uses the default configuration. They notice that no data has moved to the cloud tier. Your customer is concerned that FabricPool might not be functioning properly.

Referring to the exhibit, what is causing the problem?

A. The performance tier is not 50% full. B.
The performance tier is not 90% full.
C. The performance tier is not 75% full.
D. The performance tier is not 100% full.

Correct Answer: A
Section: (none)
Explanation

QUESTION 54
You recently set up a SnapMirror relationship with a daily update schedule. You want to verify that the updates are being performed daily. Which

two actions inside OnCommand System Manager would you ensure that the SnapMirror transfers are occurring daily? (Choose two.)

A. In the Jobs window, verify that all manual Snapshot copy operations have completed in the past 24 hours.
B. In the Jobs window, verify that all SnapMirror jobs have completed within the past 24 hours.
C. In the Relationships window, verify that the relationship state was broken in the past 24 hours.
D. In the Relationships window, verify that the lag time is less than 24 hours.

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 55
Which two NetApp technologies allow for synchronous replication of data between two remote sites? (Choose two.)

A. SyncMirror
B. SnapVault
C. Metro Cluster
D. SnapMirror

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.netapp.com/us/media/tr-4733.pdf

QUESTION 56
A customer is running multiple Oracle DBs over NFS. The volumes are replicated using SnapMirror to a secondary site, which also hosts the development and test systems. They want to streamline the creation of test environments on the secondary site so that they will not have to manually use FlexClone to clone multiple volumes for each request.

In this scenario, which tool satisfies these requirements?

A. Snap Creator Framework
B. OnCommand Unified Manager
C. NetApp Service Level Manager
D. OnCommand Workflow Automation

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://library.netapp.com/ecm/ecm_download_file/ECMP1650312

QUESTION 57 You want to set up an important management solution that must comply with FIPS 140-2. The solution should support a multi-clusters environment and should provide centralized management of the encryption keys.

In this scenario, which solution accomplishes the task?

A. NetApp Storage Encryption (NSE) with external key management using the Key Management Interoperability Protocol (KMIP)
B. NetApp Volume Encryption (NVE) with onboard key manager using the Key Management Interoperability Protocol (KMIP)
C. NetApp Storage Encryption (NSE) with onboard key manager using the Key Management Interoperability Protocol (KMIP)
D. NetApp Volume Encryption (NVE) with external key management server using the Key Management Interoperability Protocol (KMIP)

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.pow-nve%2FGUID-5DD87E19-F311-4B2C-898C-285032E0B116.html

QUESTION 58

You have two ONTAP clusters, cluster1 and cluster2. Cluster1 has an SVM serving SMB3 data and you want to protect it by replicating it to cluster2 using SVM DR. The source and destination subnets are identical. You want to retain the CIFS server security of the SVM at the destination site.

In this scenario, which three steps would you take to configure the SVM DR relationship? (Choose three.)

A. Configure the network for data access on the destination SVM.
B. Create the SnapMirror relationship with the `id-preserve` option set to true.
C. Create the destination SVM with the `dp-destination` subtype.
D. Create a CIFS server on the destination SVM.
E. Initialize the SnapMirror relationship.

Correct Answer: ABD
Section: (none)
Explanation

Explanation/Reference:
Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2494081

QUESTION 59 You are given the vsadmin account credentials for an SVM that is delegated to you by your organization's shared services group. You are asked to verify that all of the volumes in your SVM are protected with SnapMirror.

In this scenario, what would you use to accomplish this task?

A. OnCommand System Manager
B. OnCommand Unified Manager
C. XCP
D. CLI

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 60
You have an environment with multiple database servers that are performing scheduled nightly dumps. These dumps vary in both the time to complete and the size of data produced. You need to ensure that there is always enough room in the volume for the data and that a nightly SnapMirror update does not take place until the database dump process is complete.

In this scenario, which NetApp tool ensures that this process is completed every night?

A. OnCommand Unified Manager
B. OnCommand Insight
C. OnCommand Workflow Automation
D. OnCommand System Manager

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference: