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NS0-160

NetApp Certified Data Administrator, ONTAP



Exam A

QUESTION 1

Click the Exhibit button.

Platform Mixing Rules			
Platform Model	Maximum Nodes (NAS) [1]	Maximum Nodes (SAN) [1]	Min ONTAP Version for Platform Mixing
Fabric Attached Storage – Current Models			
FAS2620	24 Nodes	12 Nodes	9.3
FAS2650	24 Nodes	12 Nodes	9.3
FAS8200	24 Nodes	12 Nodes	9.3
FAS9000	24 Nodes	12 Nodes	9.3
All Flash FAS – Current Models			
Fabric Attached Storage – Legacy EOA Models			
FAS2520	4 Nodes	4 Nodes	9.3
FAS2552	8 Nodes	8 Nodes	9.3
FAS2554	8 Nodes	8 Nodes	9.3
FAS8020	24 Nodes	12 Nodes	9.3
FAS8040	24 Nodes	12 Nodes	9.3
FAS8060	24 Nodes	12 Nodes	9.3
FAS8080 EX	24 Nodes	12 Nodes	9.3
All Flash FAS – Legacy EOA Models			
Footnotes			
Notes ID	Notes Description		
1	Maximum number of nodes within a cluster is determined by platform which supports the fewest number of nodes		

A storage administrator has an existing FAS2554 HA pair. They want to add a new FAS2620 HA pair to the cluster. The SAN protocols are licensed. Referring to the exhibit, after adding the second HA pair, how many more nodes are available to add for future use?

- A. 4
- B. 12
- C. 8
- D. 2

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

When a write from a SAN host is received, the information is stored within the controller before it is written to the underlying RAID. In this scenario, which component stores the data?

- A. HBA
- B. FlashCache
- C. Flash Pool
- D. NVRAM

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

An administrator notices that the applications are running slowly. The administrator wants to determine which component on the ONTAP subsystem is experiencing the most latency. In this scenario, which command would you use to accomplish this task?

- A. `run -node * stats show system::sys_avg_latency`
- B. `statistics system show`
- C. `run -node * -command sysstat -x 1`
- D. `qos statistics latency show`

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-cmpr-940%2Fqos_statistics_volume_latency_show.html

QUESTION 4

A customer has four or more nodes in a cluster. More than four target ports are being used by the SVMs in any node. The customer wants to limit the number of paths that can be used to access LUNs on the nodes, so that the paths do not exceed the recommended maximum of eight.

In this scenario, which three actions will accomplish this task? (Choose three.)

- A. Use ALUA protocol.
- B. Use multipathing software.
- C. Use port sets for iSCSI.
- D. Use Selective LUN Mapping
- E. Use FC switch zoning.

Correct Answer: CDE

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-sanconf%2FGUID-133F725D-6EE4-4ACF-8352-73E731B7CFD9.html>

QUESTION 5

A customer configured CIFS in an ONTAP 9.5 SVM. The customer wants to verify if the “CIFS Server” is accessible from each node of the cluster. In this scenario, which command will accomplish this task?

- A. `vserver cifs session`
- B. `vserver cifs connection show`
- C. `vserver cifs check`

D. vservers cifs domain discovered-servers

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-cmpr-950%2Fvservers_cifs_check.html

QUESTION 6

Click the Exhibit button.

```
::> vservers export-policy rule create -vservers vs1 -policyname test
-clientmatch 10.64.18.0/24 -rorule any -rwrule any -protocol nfs3 -ruleindex 1 -
anon 70
```

The rule created above is verified by using the command that follows:

```
::> vservers export-policy rule show
```

Vservers	Policy Name	Rule Index	Access Protocol	Client Match	RO Rule
vs1	test	1	nfs3	10.64.18.0/24	any

An export policy rule for a volume is set by using the command shown in the exhibit.

If clients with IP addresses 10.64.19.0 and 10.64.18.20 accessed the export, what is the outcome?

- A. Neither client is given access.
- B. Client 10.64.19.0 is given access but 10.64.18.20 is not given access.
- C. Client 10.64.19.0 is not given access but 10.64.18.20 is given access.
- D. Both clients are given access.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

Click the Exhibit button.

```
::> network port broadcast-domain show -broadcast-domain Default
```

IPspace Name	Broadcast Domain Name	MTU	Port List	Update Status Details
Default	Default	1500		
			node01:e0c	complete
			node01:e0d	complete
			node02:e0c	complete
			node02:e0d	complete

```
::> network interface failover-groups show
```

Vserver	Group	Failover Targets
cluster1	Default	node01:e0c, node01:e0d node02:e0c, node02:e0d
	e0c	node01:e0c, node02:e0c
	e0d	node01:e0d, node02:e0d

```
::> network interface show -vserver SVM1 -fields home-node, home-port, failover-  
group, failover-policy
```

vserver	lif	home-node	home-port	failover-policy	failover-group
SVM1	LIF1	node01	e0c	system-defined	Default
SVM1	LIF2	node02	e0d	system-defined	e0d
SVM1	LIF3	node01	e0c	system-defined	e0c
SVM1	LIF4	node02	e0d	local-only	Default



Referring to the exhibit, to where will LIF4 move if you unplug the cable from node02 port e0d?

- A. node01 port e0c
- B. node02 port e0c
- C. node02 port e0d
- D. node01 port e0d

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8 To which three objects on an ONTAP 9.3 cluster would you assign a QoS throughput floor?
(Choose three.)

- A. a volume on FAS B.
- a LUN on AFF
- C. a volume on AFF
- D. an SVM on AFF
- E. a file on AFF

Correct Answer: BCE

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.pow-perf-mon%2FGUID-77DF9BAF-4ED7-43F6-AECE-95DFB0680D2F.html>

QUESTION 9

Click the Exhibit button.

IPspace	Vserver List	Broadcast Domains
Cluster	Cluster	Cluster
Default	svm1, svm2, cluster1	Default
IPspace1	SVM1A, SVM2A,	IPspace1
IPspace2	SVM2A, SVM2B,	IPspace2

You execute the `cluster1::> network ipspace show` command, and notice that two IPspaces are not able to be renamed or deleted.

Referring to the exhibit, what are these two IPspaces? (Choose two.)

- A. IPspace1
- B. Default
- C. IPspace2
- D. Cluster

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

A storage administrator has a single-node FAS cluster. The administrator wants to add a second node to convert the FAS storage array into a switchless cluster.

In this scenario, what would the administrator do to accomplish the task?

- A. Add a new AFF HA pair and replace the existing FAS.
- B. Add a cluster interconnect switch and a second FAS of the same model.
- C. Add a new single node AFF controller to the existing FAS storage array.
- D. Add a new single node FAS controller of the same model.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

A customer ordered a FAS8200 running ONTAP 9.4 with 4 TB SATA drives. You want to use the ADP features to avoid consuming the high capacity drives for the root aggregates. Before starting the initial setup of the cluster, you run the `aggr status` command and notice that ADP is not being used.

In this scenario, which boot menu option do you use to solve the problem?

- A. Option 7
- B. Option 5
- C. Option 9
- D. Option 4

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://community.netapp.com/t5/FAS-and-V-Series-Storage-Systems-Discussions/ADP-still-limited-to-internal-disks-on-FAS26XX-with-Ontap-9-2/td-p/134741/page/2>

QUESTION 12

A customer installed an ONTAP cluster. The customer wants to provide data access to host computers and end users. Which three tasks are required? (Choose three.)

- A. Create a Quality of Service (QoS) policy.
- B. Create an SVM.
- C. Create a LIF.
- D. Create an IPspace.
- E. Create a volume.

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:



QUESTION 13 Which three tasks are SVM administrators allowed to perform? (Choose three.)

- A. Configure name services.
- B. Configure an aggregate.
- C. Monitor jobs.
- D. Configure data protocols.
- E. Create a LIF.

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1368704/html/GUID-4CD73656-6E82-4F77-84F2-FBD148932049.html>

QUESTION 14

A 2-node switches cluster experiences a node failure.

In this situation, which LIF automatically migrates to a different port?

- A. SAN data LIF
- B. intercluster LIF
- C. NAS data LIF
- D. node management LIF

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: https://thinksystem.lenovofiles.com/help/topic/network_management_guide/M_CF7DA10E-0AF9-4CE1-B44D-8446361A158F_.pdf

QUESTION 15

Click the Exhibit button.

```
cluster1:: *> aggr create -aggregate aggr3 -diskcount 8 -mirror true
```

First Plex

RAID Group rg0, 4 disks (block checksum, raid_dp)

Position	Disk	Type	Size
dparity	1.0.21	BSAS	-
parity	1.0.5	BSAS	-
data	1.0.7	BSAS	2TB
data	1.0.9	BSAS	2TB

Second Plex

RAID Group rg0, 4 disks (block checksum, raid_dp)

Position	Disk	Type	Size
dparity	1.0.15	BSAS	-
parity	1.0.17	BSAS	-
data	1.0.19	BSAS	2TB
data	1.0.13	BSAS	2TB

Referring to the output shown in the exhibit, which aggregate capacity is available for a volume?

- A. 4TB
- B. 8TB
- C. 3.4 TB
- D. 3.6 TB



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16 Which storage efficiency policy is automatically defined when you run `volume move` from a non-AFF system to an AFF system?

- A. inline-only
- B. promote
- C. default
- D. auto

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-vsmg%2FGUID-46CCF74B-BCE5-4881-B43C-B2C0A51FE14F.html>

QUESTION 17

Which NetApp product enables you to leverage legacy storage investments?

- A. FlexClone
- B. FlexGroup
- C. Cloud Volumes ONTAP
- D. FlexArray

Correct Answer: C

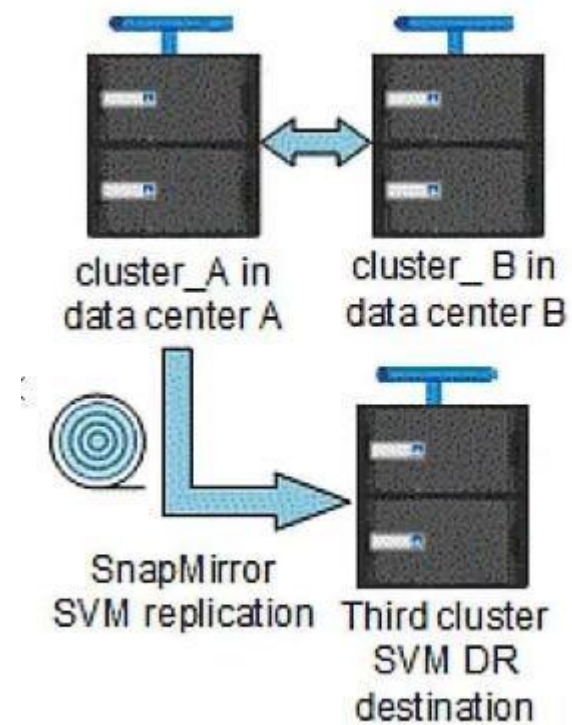
Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Click the Exhibit button.



Using ONTAP 9.5, you are operating with data protection across three sites. The cluster_A and cluster_B systems require synchronous replication. The SVMs on cluster_A also require asynchronous SVM-DR replication to a third site. All replication between all sites must also replicate the SVM configuration.

Referring to the exhibit, which replication technology is supported between cluster_A and cluster_B?

- A. NetApp Data Availability Services
- B. Snap Mirror Synchronous
- C. MetroCluster IP
- D. Foreign LUN Import

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

Which management tool would you use to deploy a new instance of Cloud Volumes ONTAP?

- A. OnCommand System Manager
- B. OnCommand Unified Manager
- C. Cloud Volumes Service
- D. OnCommand Cloud Manager

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2645523

QUESTION 20

You are configuring an FC to allow LUN access to a host system.

In this scenario, a switch needs a zone configuration file that includes which two elements? (Choose two.)

- A. host initiator WWPN B. SVM target WWNN
- C. host initiator WWNN
- D. SVM target WWPN

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.exp-fc-cpg%2FGUID-3DCD06E4-6B78-4C3D-8476-19FDA9EDE77A.html>

QUESTION 21 What are three tiering policies that are associated with a FabricPool-enables aggregate?
(Choose three.)

- A. backup
- B. mirror-vault
- C. local-only
- D. auto
- E. snapshot-only

Correct Answer: ADE

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-psmg%2FGUID-149A3242-B120-49CB-B712-BDDED53ED25D.html>

QUESTION 22

Your manager asks you to upgrade the ONTAP software that is running on the organization's FAS8200. The FAS8200 is running ONTAP 9.2 and needs to be upgraded to ONTAP 9.5. In this situation, what is the minimum number of ONTAP upgrades required to accomplish the task?

- A. 3 upgrades; ONTAP 9.2 > ONTAP 9.3 > ONTAP 9.4 > ONTAP 9.5
- B. 1 upgrade; ONTAP 9.2 > ONTAP 9.5
- C. 2 upgrades; ONTAP 9.2 > ONTAP 9.3 > ONTAP 9.5
- D. 4 upgrades; ONTAP 9.2 > ONTAP 9.2P4 > ONTAP 9.3 > ONTAP 9.4P5 > ONTAP 9.5

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2492712 (10)

QUESTION 23 Click the

Exhibit button.

```
cluster1::> volume create -vserver vs1 -volume voll -aggregate aggr1 -encrypt true
```

Which statement regarding the command shown in the exhibit is true?

- A. The volume will be created and protected on an aggregate using NetApp Storage Encryption (NSE) disks.
- B. The volume will be created and protected using an external Key Management Server.
- C. The volume will be created and protected for Snaplock Enterprise compliance.
- D. The volume will be created and protected using NetApp Volume Encryption (NVE).

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24 Which commands shows the data compaction savings for an aggregate?

- A. storage aggregate show-space
- B. storage aggregate show-efficiency
- C. volume efficiency showD. storage efficiency show



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.netapp.com/us/media/tr-4476.pdf>

QUESTION 25 What are three reasons to implement FabricPool?

(Choose three.)

- A. to shrink secondary storage
- B. to implement storage efficiency features
- C. to move volumes to external capacity tiers
- D. to use the volume backup feature
- E. to reclaim space on primary storage

Correct Answer: ABE

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.netapp.com/us/media/tr-4598.pdf>

QUESTION 26

Which FabricPool policy would you apply only on a SnapMirror destination volume?

- A. backup
- B. destination
- C. auto
- D. manual

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://blog.netapp.com/cut-costs-on-your-performance-tier-storage-with-netapp-fabricpool/>

QUESTION 27

You must expand an existing FAS8200 switchless cluster to a switched cluster and add a new FAS8200 HA pair in the cluster. In this scenario, which three actions would you perform to expand the cluster? (Choose three.)

- A. Ensure that the switchless-cluster network option is false.
- B. Connect the existing nodes to the cluster switches.
- C. Change the cluster ports for the existing HA pair.
- D. Ensure that the switchless-cluster network option is true.
- E. Join the new HA pair to the cluster.

Correct Answer: ABE

Section: (none)

Explanation

Explanation/Reference:



QUESTION 28 Which statement about a node-root volume is true?

- A. A node-root volume is used as the root volume for all of the SVMs for that node.
- B. The `volume move` command can be used to move a node-root volume.
- C. There is only one primary root volume per node in the cluster.
- D. A node-root volume may be used for customer data.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29 In which version of ONTAP did the NVMe protocol become available for SAN environments?

- A. 9.4
- B. 9.5
- C. 9.3
- D. 9.2

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2495115

QUESTION 30

An administrator is configuring an aggregate to use FabricPool to take advantage of auto tiering. In this scenario, what are three requirements to accomplish this task? (Choose three.)

- A. volume with `space-guarantee none`
- B. FabricPool license
- C. intercluster LIFs
- D. volume with `space-guarantee volume`
- E. AFF array

Correct Answer: BCE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

Click the Exhibit button.

server	Interface	Admin/Oper	Address/Mask	Node	Port	Home	Role
CDOT93	CDOT93-01_mgmt1	up/up	192.168.134.162/24	CDOT93-01	e0d	true	node-mgmt
	CDOT93-02_mgmt1	up/up	192.168.134.163/24	CDOT93-02	e0d	true	node-mgmt
	cluster_mgmt	up/up	192.168.134.161/24	CDOT93-01	e0d	true	cluster-mgmt
Cluster	CDOT93-01_clus1	up/up	169.254.246.126/16	CDOT93-01	e0a	true	cluster
	CDOT93-01_clus2	up/up	169.254.246.136/16	CDOT93-01	e0b	true	cluster
	CDOT93-02_clus1	up/up	169.254.69.154/16	CDOT93-02	e0a	true	cluster
	CDOT93-02_clus2	up/up	169.254.69.164/16	CDOT93-02	e0b	true	cluster
InterCluster	CDOT93-01_ic1	up/up	192.168.134.200/24	CDOT93-01	e0e	true	intercluster
	CDOT93-02_ic1	up/up	192.168.134.201/24	CDOT93-02	e0e	true	intercluster
SVM	CDOT93-01	up/up	192.168.134.100/24	CDOT93-01	e0f	true	data
	CDOT93-02	up/up	192.168.134.201/24	CDOT93-02	e0f	true	data

An administrator needs to configure ports for peering. Referring to the exhibit, which ports should be used?

- A. CDOT93-01:e0a and CDOT93-02:e0a
- B. CDOT93-01:e0e and CDOT93-02:e0e
- C. CDOT93-01:e0d and CDOT93-02:e0d
- D. CDOT93-01:e0f and CDOT93-02:e0f

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

You want to use FabricPool technology to tier SnapVault destination volumes to the capacity tier. In this scenario, which action would you perform to accomplish this task?

- A. Create the destination volume on the FabricPool-enabled aggregate and assign the backup tiering policy to the destination volume.
- B. Create both the source and destination volumes on a standard aggregate and assign the backup tiering policy to the destination volume.
- C. Create both the source and destination volumes on the FabricPool-enabled aggregate and assign the backup tiering policy to the source volume.
- D. Create the source volume on the FabricPool-enabled aggregate and assign the backup tiering policy to the source volume.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33 When performing a manual MetroCluster switchover, which two statements are true?

(Choose two.)

- A. Only the user specified DR groups are switched over.
- B. All SVMs in the disaster site are switched over.
- C. All DR groups in the disaster site are switched over.
- D. Only the user specified SVMs are switched over.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

You want to delete a WORM file from a SnapLock Enterprise volume.

Based on this scenario, which two steps must you perform to accomplish this task? (Choose two.)

- A. Unmount the SnapLock volume from the NAS namespace.
- B. Move the file to a non-SnapLock volume.
- C. If a SnapLock audit does not exist, create one.
- D. Enable the privileged delete feature.



Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1196889/html/GUID-C98D72F7-905F-448E-86EF-140F5452D093.html>

QUESTION 35 Which two statements are true when you restore a volume from a Snapshot copy?

(Choose two.)

- A. All Snapshot copies that were created after the Snapshot copy was created are lost.
- B. All data that was written to the volume after the Snapshot copy was created is lost.
- C. The volume's SnapMirror relationships need to be re-created.
- D. After the volume is restored, it becomes read-only.

Correct Answer: BC

Section: (none)

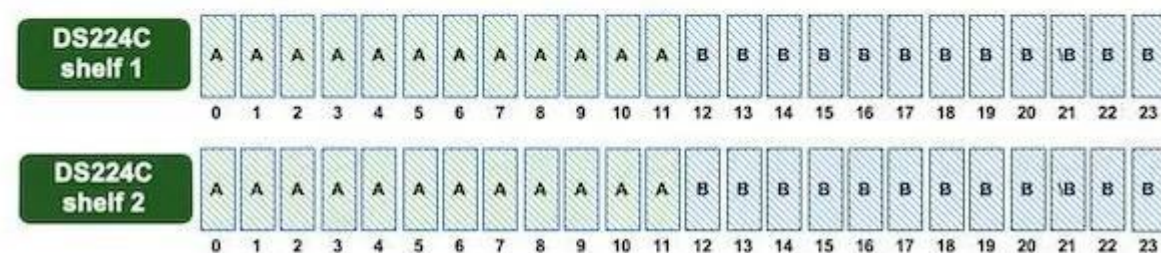
Explanation

Explanation/Reference:

QUESTION 36

Click the Exhibit button.

FAS8200



You have a FAS8200 HA pair with disks that are evenly split between nodes A and B. When a disk fails, the replacement disk must automatically assign back to the originally assigned controller, A or B. Referring to the exhibit, which disk auto assign policy satisfies this requirement?

- A. shelf
- B. stack
- C. default
- D. bay

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 37

Click the Exhibit button.

```
Cluster_dst::> snapmirror policy show -policy XDPDefault -instance
```

```

Vserver:      vs0
SnapMirror Policy Name:  XDPDefault
SnapMirror Policy Type:  vault
Policy Owner:  cluster-admin
Tries Limit:   8
Transfer Priority:  normal
Ignore accesstime Enabled:  false
Transfer Restartability:  always
Network Compression Enabled:  false
Create Snapshot:  false
Comment:  Default policy for XDP relationships with daily and weekly
rules.
Total Number of Rules:  2
Total Keep:  59
Rules:
  SnapMirror Label  Keep  Preserve  Warn  Schedule  Prefix
  -----
  daily             7     false     0     -         -
  weekly            52     false     0     -         -

```

An administrator realizes that daily snapshots are not being replicated to their destination. The administrator can see the daily snapshots created at the source. The exhibit shows the policy in use. Weekly snapshots are being replicated without a problem, and the SnapMirror relationship is showing as “healthy”. In this scenario, what is causing the problem with the daily snapshot?

- A. The SnapMirror label has not been applied to the daily snapshots.
- B. The SVM peer is not working.
- C. The daily snapshots at the source are busy due to the NDMP backup.
- D. The vault policy applied to the source volume does not match the SnapMirror policy at the destination.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38 Which ONTAP feature uses the Service Processor to speed up takeover times between HA pairs?

- A. hardware-assisted takeover
- B. automatic takeover and giveback
- C. epsilon
- D. cluster HA

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2492713 (26)

QUESTION 39

You execute the `volume unmount -vserver vs1 -volume vol1` command.
In this scenario, which statement is true?



- A. The Snapshot policy in the volume needs to be recreated once the volume is remounted.
- B. All data within the junction point is inaccessible to NAS clients.
- C. Data within the vol1 volume is lost.
- D. The existing volume export policies and SMB shares created on the volume or on directories and junction points within the unmounted volume are not retained.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.cdnt-famg-nfs%2FGUID-8E400D78-B405-4682-8F33-143783F2D580.html>

QUESTION 40 Which LIF types are owned by the admin SVMs?
(Choose two.)

- A. Node-Management
- B. Cluster
- C. Data
- D. Intercluster

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-nmg%2FGUID-1BA3000D-2243-44E4-98CC-8D42A5C8AF8F.html>

QUESTION 41 Regarding root partitioned disks in an ONTAP system, which three types of objects are associated with ADP?
(Choose three.)

- A. array LUN
- B. root partition
- C. container disk
- D. data partition
- E. shared disk

Correct Answer: BCD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

A network administrator has configured an upstream switch for LACP.

In this scenario, which action should be performed when the NetApp interface group is created?

- A. Set the type to “static multimode”.
- B. Set the distribution function to “port”.
- C. Set the type to “dynamic multimode”.
- D. Set the distribution function to “IP”.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 43

As an administrator, you are asked to enable deduplication on volumes that are separated by workloads on a FAS8200 system. On which volume would you see the highest savings from enabling deduplication?

- A. home directory shares
- B. virtual desktop environment
- C. file share
- D. SQL database

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

You want to establish a SnapMirror relationship between two clusters.

In this scenario, which two actions must you perform to accomplish this task? (Choose two.)

- A. Peer the nodes.
- B. Peer the volumes.
- C. Peer the clusters.
- D. Peer the SVMs.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

Which command would you use to enable the ONTAP HA feature?

- A. `storage failover modify -enabled true -node *`
- B. `cluster ha modify -configured true`
- C. `cluster ha modify -configured false`
- D. `network options switchless-cluster modify true`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1367947/html/GUID-C7459FF5-75AD-4383-94B5-F18C9E7B09A9.html>

QUESTION 46 When you use the default SnapMirror policy during transfer of a data protection SnapMirror relationship, what is transferred?

- A. the Snapshot copy that is created by the transfer process and any existing Snapshot copies
- B. the Snapshot copy that is manually created and any existing Snapshot copies
- C. the SnapMirror license
- D. only the existing Snapshot copies



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2811525

QUESTION 47 What is the default fractional reserve for a thin-provisioned SAN volume?

- A. 5%
- B. 20%
- C. 100%
- D. 0%

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1002243/~/_what-is-the-proper-configuration-for-a-volume-containing-a-lun%3F-

QUESTION 48

You create SAN volumes with System Manager on a FAS solution.

In this scenario, what are three default settings for these volumes? (Choose three.)

- A. Volumes have inline deduplication enabled.
- B. Volume space guarantee is set to Volume.

- C. Volumes have Snapshot copies disabled.
- D. Volume snapshot reserve is set to 0.
- E. Volume space guarantee is set to None.

Correct Answer: CDE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

An administrator created a NAS storage virtual machine for a vSphere environment. The administrator verified that all interfaces can communicate successfully. However, when the administrator attempts to mount the export, a connection refuse message is received.

Based on this scenario, what would you troubleshoot?

- A. the igroup
- B. the CIFS export policy
- C. the NFS export policy
- D. the FC zoning policy

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50 Which mediator type is required for an ONTAP Select 2-node HA solution?

- A. mediator code
- B. mediator storage virtual machine
- C. mediator cluster
- D. mediator virtual machine

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

An administrator forgot to update the cabling sheet for a core Cisco switch and cannot recall which ports were used by the NetApp FAS system. Which command should the administrator run to obtain this information?

- A. network port show
- B. network device-discovery show
- C. network interface show
- D. network port broadcast-domain show

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1032596/~/_how-to-diagnose-port-issues-in-clustered-data-ontap-



QUESTION 52

An administrator enabled the iSCSI protocol on an SVM and created a LUN for a Windows 2016 system. After a rescan, the LUN is not visible on the host. In this scenario, which two statements describe what the administrator must do to solve this problem? (Choose two.)

- A. Create an initiator group (igroup), add the iSCSI IQN, and map the igroup to the LUN.
- B. Create an initiator group (igroup), add the WWPN of the host initiator, and then map the igroup to the LUN.
- C. Disable the ALUA support from the host for the LUN.
- D. Configure the iSCSI service on the Windows 2016 system.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

Which command enables ONTAP storage failover?

- A. `storage failover modify -enabled false -node nodename`
- B. `storage failover modify -enabled true -node nodename`
- C. `cluster ha modify -configured false`
- D. `storage failover modify -mode ha -node nodename`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1367947/html/GUID-C5815885-53E8-4141-BD0C-3ED1DBBD0E64.html>

QUESTION 54

Click the Exhibit button.

```
cluster1> system node run cluster1-01 waf1 awa print
```

```
Aggregate cluster1_01_aggr1
```

```
Summary of the past 20 intervals
```

	max
Read Throughput (MB/s):	181.772
Write Throughput (MB/s):	550.611
Cacheable Read (%):	12
Cacheable Write (%):	30
Max Projected Cache Size (GiB):	787.077

You are asked to identify cache hit rates on your FAS8200 HA pair NAS volumes. You need to increase performance of your HDD `cluster1_01_aggr1` aggregate. Referring to the exhibit, which NetApp technology achieves the requirement?

- A. FlexCache
- B. Flash Pool
- C. FabricPool
- D. MAX Data

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55 Which three privileges are available to the vsadmin role?

(Choose three.)

- A. configuring protocols
- B. managing volumes, except volume moves
- C. setting physical port speeds
- D. managing LUNs
- E. managing aggregates, except aggregate relocate

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1368701/html/GUID-FFE11F8C-490B-4D6D-A18E-3488275029C7.html>

QUESTION 56

Click the Exhibit button.

```
::> network interface show -vserver nfs1 -fields dns-zone

vserver    lif    dns-zone
-----
nfs1       lif1   nfs1.netapp.com
nfs1       lif2   none
2 entries were displayed
```



You use DNS zone delegation to access an SVM that is set up for on-box DNS to nfs1.netapp.com. You can ping both lif1 and lif2 by IP address, but you can only ping lif1 by the delegated DNS name nfs1.netapp.com. Referring to the exhibit, what must you do to allow on-box DNS access to lif2?

- A. Modify the DNS zone on lif2 to nfs1.netapp.com.
- B. Modify the firewall policy on lif2 to management.
- C. Configure the name service to allow DNS.
- D. Configure lif2 in the external DNS.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

How would you protect a NAS SVM root volume?

- A. Create a SnapMirror copy of the root volume to a peer cluster.
- B. Create load-sharing mirrors.
- C. Create a backup the SVM configuration.
- D. Create a backup of the SVM root volume.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2496241

QUESTION 58 You are working with a service provider that is running ONTAP 9.5. You must ensure that the end customer sees the logical space used. In this scenario, which argument for `volume show` command will accomplish this task?

- A. `is-space-enforcement-logical`
- B. `is-space-reporting-logical`
- C. `logical-used-percentage`
- D. `is-quesced-in-memory`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://whyistheinternetbroken.wordpress.com/2018/06/11/logical-used-space-ontap94/>

QUESTION 59

You are creating a CIFS-based SVM, but the SVM cannot join the domain.

In this scenario, which two actions would be helpful in troubleshooting the problem? (Choose two.)

- A. Verify that the clocks are synchronized between the SVM and the domain controller.
- B. Verify that each node has a data LIF.
- C. Verify that the data LIF can access the Active Directory domain controller.
- D. Verify that the cluster admin account is used to join the Active Directory.



Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60 In which scenario would you specifically assign aggregates to SVMs?

- A. to configure an ONTAP system for CIFS and iSCSI
- B. to create SnapMirror peering relationships between SVMs
- C. to prevent a storage administrator from overcommitting an aggregate
- D. to configure an ONTAP system for multi-tenancy

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1368404/html/GUID-5255E7D8-F420-4BD3-AEFB-7EF65488C65C.html>

QUESTION 61 Which three actions would be used to upload an image or firmware for ONTAP 9.3? (Choose three.)

- A. Use TFTP.
- B. Use USB.

- C. Use HTTP.
- D. Use FTP.
- E. Use SFTP.

Correct Answer: BCD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62 According to NetApp best practices, when you configure FC, how many data LIFs should you create per node?

- A. 4
- B. 8
- C. 6
- D. 2

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-sanconf%2FGUID-A24C3DFB-C410-49F0-AB96-0EEA31EF8808.html>

QUESTION 63

You have a 4-node cluster with 2x AFF A700 controllers and 2x FAS8200 controllers. A volume set to default settings is moved from a FAS8200 to an AFF A700 using the `volume move` command. In this scenario, which volume parameter change will allow for data compaction?

- A. `space-allocation`
- B. `security-style`
- C. `space-guarantee`
- D. `fractional-reserve`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

When you create a new SSD storage pool for use with Flash Pools, how many allocation units are assigned to each node in the HA pair by default?

- A. 8
- B. 2
- C. 1
- D. 4

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/topic/com.netapp.doc.dot-cm-psmg/GUID-610B95D3-B0F3-4890-9A45-8A343BF40B29.html>

QUESTION 65

Click the Exhibit button.

```
::> network ping -lif cluster_mgmt -destination host1
host1 is alive

::*> vserver services name-service getxxbyyy gethostbyname -vserver cluster1 -hostname
host1
Host name: host1
Canonical name: host1
IPv4: 10.98.16.164

::> system services firewall policy show -vserver cluster1 -policy_mgmt
Vserver      Policy      Service      Allowed
-----
cluster1
  mgmt
  ...
  ...
  ssh        192.168.1.0/24

::> network interface show -vserver cluster1 -lif cluster_mgmt -fields
address, netmask, firewall-policy

vserver      lif          address      netmask      firewall-policy
-----
cluster1     cluster_mgmt 192.168.1.240 255.255.255.0 mgmt
```

You are troubleshooting a Linux host named `host1` that sees a connection refused message when you execute the `ssh admin@192.168.1.240` command. Referring to the exhibit, what is the reason for this message?

- A. There is no route to the host.
- B. The firewall policy is blocking the host.
- C. NTP is set up incorrectly.
- D. DNS is not resolving the host name.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

On your customer's AFF A700, there are multiple volumes within the aggregate `aggr1`. Within `aggr1`, volumes `vol1`, `vol2`, and `vol3` store similar data, and volumes `vol4` and `vol5` store unique data. In this scenario, which feature would improve storage efficiency with the data stored in volumes `vol1`, `vol2`, and `vol3`?

- A. data compaction
- B. postprocess compression
- C. inline aggregate-level deduplication
- D. inline compression

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:**QUESTION 67**

An administrator created an SVM for a VMware vSphere 6.5 cluster. For the SVM, the NFS protocol was enabled. Data LIFs were configured with jumbo frames. The `nfs01` volume was created and mounted as junction path `/nfs01`. A VMware export policy that allowed all the hosts of the cluster was applied to the SVM. However, the hosts are unable to mount the volume. In this scenario, what caused the problem?

- A. NFS v3 is not compatible with ESXi hosts.
- B. The volume is not thin provisioned.
- C. The maximum transmission unit (MTU) was not set properly on the ESXi hosts.
- D. The default export policy needs to allow reads from the ESXi hosts.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 68**

An administrator is configuring a third-party software for NDMP. The application is targeting the IP of the data LIF of the SVM called "SVM1". NDMP is configured as the SVM scope. The NDMP service is not enabled for the admin SVM. SVM1 has a user called "Tom" with the backup role. Tom can connect by using SSH to the controller with the credentials that he used to configure the third-party software. The authentication of the third-party software is failing. In this scenario, what is the reason for the authentication failure?

- A. The NDMP password has not been generated for Tom.
- B. The application is not targeting the IP of the cluster or node management LIF.
- C. The NDMP service is not enabled for the admin SVM.
- D. The user Tom does not belong to the admin SVM.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 69**

A storage administrator wants to convert a switchless cluster to a switched cluster. You need to determine which switches are supported in ONTAP 9.3. In this scenario, which tool would satisfy the requirement?

- A. Config Advisor
- B. Hardware Universe
- C. OnCommand System Manager
- D. OnCommand Unified Manager

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMP1140535

QUESTION 70

You have a volume storing a large number of 1KB to 2KB compressed zip files. In this scenario, which storage efficiency feature should you use?

- A. data compaction
- B. secondary compression

- C. adaptive compression
- D. deduplication

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71 What are two client specifications for an export rule?
(Choose two.)

- A. 192.168.100.0/16
- B. 192.168.100.0/0
- C. 0.0.0.0/16
- D. 0.0.0.0/0

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 72

You must create separate SVMs that are based on teams. You also need to create separate SVMs that are based on the block-level and file-level protocols. Your DevOps team requests NFS and CIFS protocols, your AI team requests NFS and NVMe protocols, and your marketing team requests SBM and iSCSI protocols.

In this scenario, what is the minimum number of SVMs that you must create to satisfy these requirements?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 73 What is the purpose of Epsilon?

- A. to monitor cluster health
- B. to be used as a load-balancer for a 2-node cluster
- C. to evaluate the differences in node configurations
- D. to be used as a tie-breaker for a cluster quorum

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-sag%2FGUID-EFE1DEF4-8B87-4C4A-8E4E-C6C79F760710.html>

QUESTION 74 If an SVM is renamed and it is participating in an intercluster SVM peer relationship, what is the result?

- A. SVM peers are removed and they need to be re-created.
- B. Snapshot copies are renamed with the new SVM unique identifier.
- C. SnapMirror relationships appear as broken and a resync is required.
- D. Remote clusters are updated with the new peer SVM name.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75 What are three types of load balancing for multimode groups?
(Choose three.)

- A. IP
- B. MAC address
- C. sequential
- D. fixed path
- E. most recently used

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-nmg%2FGUID-27EAC723-A07A-4F60-A1AC-8E91AE6AE82E.html>

QUESTION 76

You need to move a FlexVol volume from one SVM to another.
In this situation, which command would accomplish this task?

- A. volume create
- B. volume rehost
- C. volume modify
- D. volume move

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-vsmg%2FGUID-84308166-6872-47C2-AEC0-D6346AD1D761.html>

QUESTION 77 Which failover policy is set by default on an iSCSI LIF?

- A. local-only
- B. broadcast-domain-wide
- C. disabled
- D. sfo-partner-only

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

You are running a FAS8200 system with ONTAP 9.5 with a Flash Pool aggregate. You have an SVM root volume and two volumes (Vol1 and Vol2).

In this scenario, which two caching technologies would be applied to which volumes? (Choose two.)

- A. Flash Pool can be applied to all volumes including the SVM root volume.
- B. FlashCache can be applied to all volumes including the SVM root volume.
- C. Flash Pool can be applied to all volumes except the SVM root volume.
- D. FlashCache can be applied to all volumes except the SVM root volume.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79 Which two performance threshold policies in OnCommand Unified manager are configurable?

(Choose two.)

- A. user-defined
- B. volume
- C. system-defined
- D. dynamic

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Reference: <http://docs.netapp.com/ocum-72/index.jsp?topic=%2Fcom.netapp.doc.onc-um-perf-ag%2FGUID-B0C4679D-E783-47B5-BD22-24A72CCF10FA.html>

QUESTION 80

Two 100 GB space-reserved LUNs and one 100 GB non-space-reserved LUN were created in System Manager in a 1 TB volume. In this scenario, how much space has been allocated for writes to the three LUNs?

- A. 1 TB
- B. 300 GB
- C. 100 GB
- D. 200 GB

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <http://ppbwiki.rz-berlin.mpg.de/uploads/Intern.NetApp/semg.pdf>

QUESTION 81 In which two scenarios would you use a storage pool?

(Choose two.)

- A. when providing an SSD caching layer evenly across multiple aggregates
- B. when you need to share an SSD caching layer within an HA pair
- C. when you have an SVM that is running a block protocol

D. when migrating the aggregate over to the partner node

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Reference: <http://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.ont-sm-help-900%2FGUID-31FCCF2B-6BFE-44E9-90B8-4724E4B59A77.html>

QUESTION 82

You have configured SVM Disaster Recovery on your cluster, and you set the `identity-preserve` option to false. In this scenario, which objects are replicated?

- A. SAN LIFs
- B. NFS Export policies
- C. DNS and DNS hosts
- D. Snapshot copies

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2496254

QUESTION 83 Which three name services does ONTAP support?
(Choose three.)

- A. HTTP
- B. local files
- C. LDAP
- D. NIS
- E. SNMP

Correct Answer: BCD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1610208/html/GUID-CF638806-8445-4306-9307-804010B317A8.html>

QUESTION 84 When you create a FlexVol volume, which security style is applied by default?

- A. the security style of the root volume of the cluster
- B. UNIX
- C. NTFS
- D. the security style of the SVM root volume

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 85 Which two interface group types enable the load balancing algorithm to be used?
(Choose two.)



- A. load balance mode
- B. QoS mode
- C. dynamic multimode
- D. static multimode

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-nmg%2FGUID-F4924A4C-9B7B-4281-BD07-A2F195BAC42D.html>

QUESTION 86 Which two configuration limits should you verify when you add additional storage to an AFF A300 switchless configuration?
(Choose two.)

- A. the supported number of SSD disks for the A300 system
- B. the supported number of shelves
- C. the supported number of HDDs for the A300 system
- D. the supported number of FC initiator ports for the A300 system

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 87 Which two statements are true for mailbox disks per node in an HA pair?
(Choose two.)

- A. Six disks are required if the root volume is on a mirrored aggregate.
- B. Two disks are required if the root volume is on a disk shelf.
- C. Four disks are required if the root volume is on a mirrored aggregate.
- D. Eight disks are required if the root volume is on partitioned disks.
- E. One array LUN is required if the root volume is on a storage array.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2492713 (8)

QUESTION 88 What are two advantages of creating small RAID groups inside an aggregate?
(Choose two.)

- A. maximized storage space
- B. decreased risk of multiple disk failure
- C. shorter reconstruction time
- D. additional available spare drives

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMM1277794/html/smg/GUID-EE30CDA9-095F-4DD1-9A29-BB9F0E55DB4F.html>



QUESTION 89 Which statement is true about creating volumes that contain LUNs?

- A. You can create LUNs on an aggregate.
- B. You cannot create qtrees on a volume that contains LUNs.
- C. You cannot create LUNs on an SVM root volume.
- D. You cannot create add files on a volume that contains LUNs.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 90

A storage administrator currently has an 8-node FAS8200 cluster with CIFS, NFS, and iSCSI licenses installed. In this scenario, how many additional nodes are supported?

- A. 3
- B. 6
- C. 4
- D. 1

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 91

What are three types of shells that are used in ONTAP? (Choose three.)

- A. clustershell
- B. systemshell
- C. powershell
- D. nodeshell
- E. bashshell

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1196798/html/GUID-B092BE96-04C1-4A86-AA6C-D53DED94C795.html>