Network Appliance

Exam Questions NS0-159

NetApp Certified Data Administrator, ONTAP

NEW QUESTION 1
You want to configure a local cluster to accept SnapMirror transfers from two remote clusters. The two remote clusters have overlapping IP networks and cannot change their IP addressing scheme.
In this scenario, which action you perform to allow both remote clusters to replicate to the local cluster?

A. Configure two ONTAP subnets with distinct IP address allocations.
B. Configure network address translation (NAT) on the network.
C. Create separate IPspaces on the local cluster.
D. Configure the SnapMirror relationships as type XDP.

Answer: C

NEW QUESTION 2
Click the Exhibit button.

```
slot 4: 40 Gigabit Ethernet Controller XL710 QSFP+
     e4a MAC Address:  00:a0:98:90:3c:0c (auto-40g_cr4-fd-up)
          QSFP Vendor:          CISCO
          QSFP Part Number:     L45593-D118-B50
          QSFP Serial Number:   LCC1930G7AX-A
     e4a MAC Address:  00:a0:98:90:3c:10 (auto-40g_cr4-fd-up)
          QSFP Vendor:          CISCO
          QSFP Part Number:     2231254-3
          QSFP Serial Number:   TED1930E04J-A
     Device Type:        XL710 B1
     Firmware Version:   nvm 5.04 etid 8000250c
     Part Number:        111-02590
     Hardware Revision:  50
     Serial Number:      031552001014
```

Referring to the exhibit, how are ports e4a and e4e being used?

A. as 40 Gb Ethernet ports connected through a QSFP+ to four 10 Gb Ethernet ports on a 10 Gb Ethernet switch
B. as 40 Gb Ethernet ports connected to a 40 Gb Ethernet switch
C. as 40 Gb Ethernet ports connected to a Cisco Nexus switch using native FC
D. as 40 Gb Ethernet ports with no connection to any Ethernet switch

Answer: C

NEW QUESTION 3
You want e-mail notifications sent to you automatically when latency reaches a warning level of 15 milliseconds and a critical level of 20 milliseconds on a volume that stores your Oracle database files.
In this- scenario, which type of threshold policy should be created within OnCommand Unified Manager?

A. a LUN Threshold Policy
B. a Volume Threshold Policy
C. an SVM Threshold Policy
D. a Cluster Threshold Policy

Answer: B

NEW QUESTION 4
A storage administrator has a Linux Oracle database that is using a SAN configuration with multiple dualported FC HBA connections for path resiliency and performance. The HBA ports are configured to separate FC switches.
Before configuring the LUNs from the storage, what information must be obtained from the host? (Choose three.)

A. the status of ALUA
B. the WWPNs of all of the FC ports installed
C. the speed of the FC ports of the host HBAs
D. the status of the multipathing driver
E. the amount of cache memory installed

Answer: BCD

NEW QUESTION 5
You want to create a new storage pool of SSDs to provide a performance tier for FlashPool-enabled aggregates on node1 and node2. You expect that the FabricPool aggregates on node1 will require more of the performance tier than the aggregates on node2.
Which action satisfies the requirement?

A. Use the storage pool reassign command to reassign storage pool allocation units from node2 to node1.
B. Use the storage disk reassign command to reassign disk from SSD storage pool from node2 to node1.
C. Use the storage pool add command to add HDDs to the FabricPool aggregates on node1.
D. Use the storage pool modify command to change the parity of the RAID groups in the storage pool to RAID-4.

Answer: A

NEW QUESTION 6
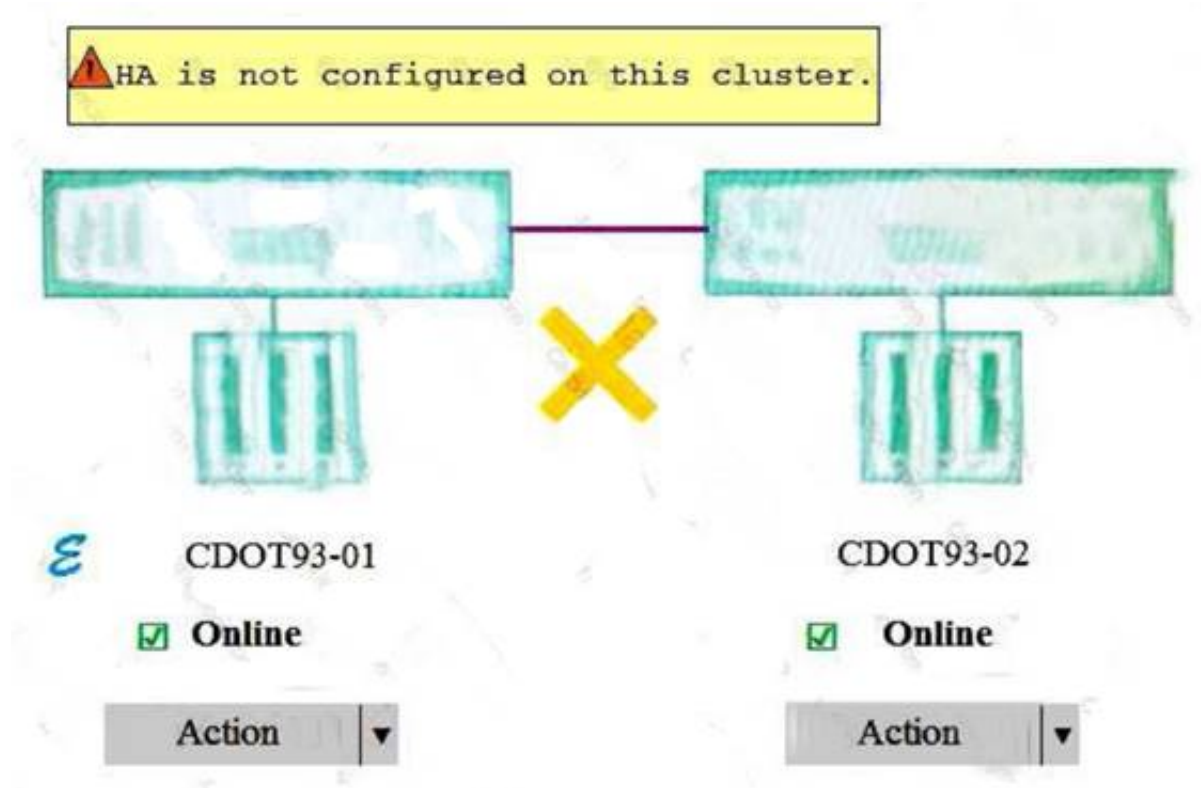With which type of I/O is data compaction beneficial?

A. I/O and files 16 KB or larger
B. I/O and files 8 KB or larger
C. I/O and files less than 2 KB
D. I/O and files 4 KB or larger

Answer: D

NEW QUESTION 7
Click the Exhibit button.

After you successfully deploy cluster CDOT93, you log in to System Manager and notice the error shown in the exhibit.
Which command must you use to correct the error?

A. storage failover giveback – node CDOT93-01
B. storage failover modify – node * -enabled false
C. storage failover giveback – node CDOT93-02
D. storage failover modify – node * -enabled true

Answer: D

NEW QUESTION 8
Which two features are available for CIFS shares on ONTAP 9.3? (Choose two.)

A. EFS volume encryption
B. distributed file system replication (DFSR)
C. BranchCache
D. access-based enumeration (ABE)

Answer: BD

NEW QUESTION 9
What are three default settings for SAN volumes when volumes are created with System Manager on AFF solutions? (Choose three.)

A. Volume space is reserved from the aggregate.
B. Aggregate inline deduplication is enabled.
C. Volume compression is enabled.
D. Volumes are thin provisioned.
E. Volumes have the default snapshot schedule enabled.

Answer: BCD

NEW QUESTION 10
A customer wants to add nodes to an 8-node AFF A700 NAS cluster. In this scenario, what is the maximum number of additional nodes?

A. 12
B. 24
C. 8
D. 16

Answer: D

NEW QUESTION 10

Which three name services are supported with NFS? (Choose three.)

A. External NIS domains (NIS)
B. External LDAP domains (LDAP)
C. NetBIOS
D. WINS
E. Local Users (file)

Answer: ABE

NEW QUESTION 11
You have a new cluster and must create a LIF on a port that uses LACP and VLAN. What is the correct order of network tasks that are required before you create the LIF?

A. ifgroup -> VLAN -> add port to broadcast domain
B. VLAN -> ifgroup -> add port to broadcast domain
C. add port to broadcast domain – ifgroup -> VLAN
D. add port to broadcast domain -> VLAN -> ifgroup

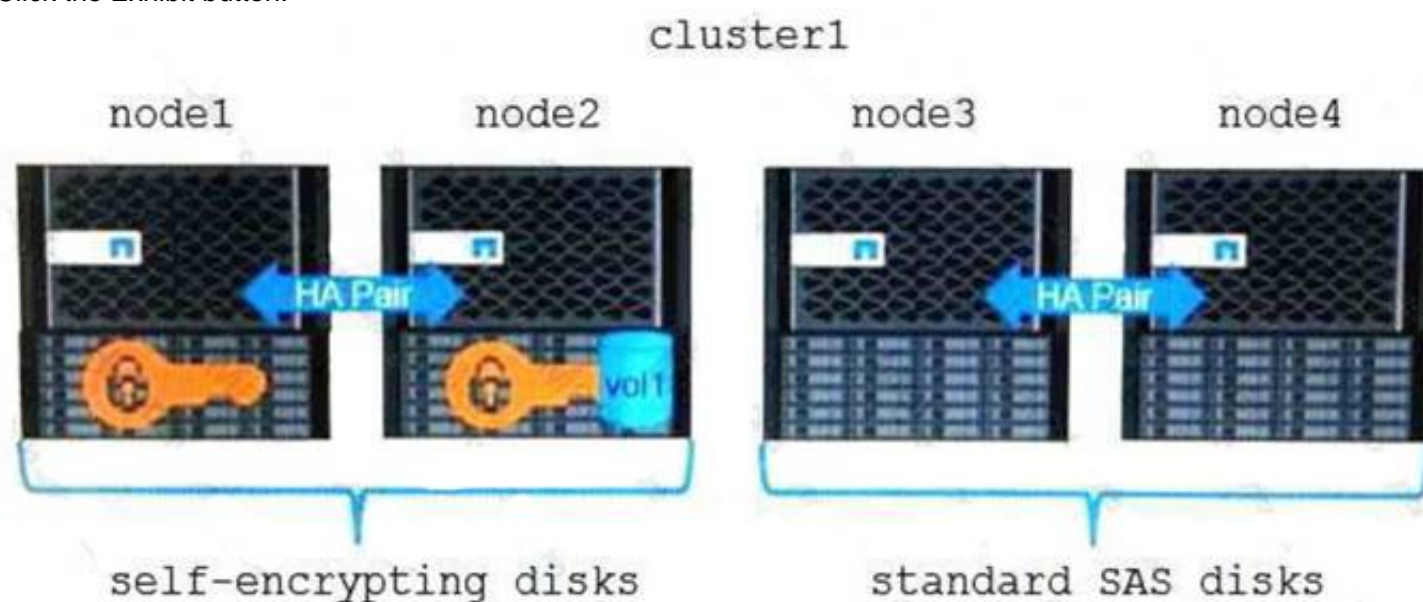**Answer:** A

NEW QUESTION 12
Click the Exhibit button.

You need to create a 200 GB volume that requires 700 IOPS.
Referring to the exhibit, in which aggregate should you create the volume?

A. aggr1_01
B. aggr1_02
C. aggr2_01
D. aggr2_02

Answer: C

NEW QUESTION 14
Click the Exhibit button.

Referring to the exhibit, NetApp Storage Encryption is running on node1 and node2. You move vol1 from node2 to node3.
How do you ensure that the data on vol1 remains encrypted?

A. Replicate vol1 to a SnapMirror volume on node2.
B. Enable NetApp Volume Encryption (NVE) on vol1.
C. Disable deduplication on vol1.
D. Install at least one shelf of self-encrypting disks on node3.

Answer: B

NEW QUESTION 19
You have a 4-node cluster with 2x AFF A300 and 2x FAS8200 controllers. One of the AFF A300 controllers has a 50 TB FlexVol volume that needs an immediate read-write copy for standalone testing on one of the FAS8200 controllers.
Which two commands combined accomplish this task? (Choose two.)

A. volume rehost
B. volume clone create
C. volume move
D. volume clone split

Answer: BD

NEW QUESTION 24
You create a quality of service (QoS) policy group called untest_apps with a maximum throughput of 300 MBps. You add one volume to the policy group, and then you add a second volume to the policy group.
In this scenario, which statement is true?

A. The maximum throughput of each volume is 600 MBps.
B. The combined maximum throughput of both volumes is 600 MBps.
C. The maximum throughput of each volume is 150 MBps.
D. The combined maximum throughput of both volumes is 300 MBps.

Answer: D

NEW QUESTION 27
Which NetApp tool indicates whether you have applied data protection policies to all volumes?

A. OnCommand Unified Manager
B. Config Advisor
C. Virtual Storage Console
D. OnCommand Service Level Manager

Answer: A

NEW QUESTION 29
You use the Automated Workload Analyzer (AWA) to identify workloads that would benefit from which feature?

A. Flash Pool aggregates
B. Advances Disk Partitioning
C. storage efficiency
D. FabricPool capacity tier

Answer: A

NEW QUESTION 30
Which NetApp cluster configuration requires the use of epsilon?

A. a cluster with an odd number of nodes
B. a 4-node cluster
C. a single-node cluster
D. a 2-node cluster

Answer: B

NEW QUESTION 33
Click the Exhibit button.

```
cluster1::> net interface show
  (network interface show)
            Logical    Status   Network          Current       Current  Is
   Vserver  Interface Admin/Oper Address/Mask     Node          Port     Home
   --------- --------- ---------- --------------- ------------- -------- -----
   Cluster
            cluster1-01_clus1
                       up/up     169.254.38.164/16 cluster1-01   e0a      true
            cluster1-01_clus2
                       up/up     169.254.68.251/16 cluster1-01   e0b      true
            cluster1-02_clus1
                       up/up     169.254.43.250/16 cluster1-02   e0a      true
            cluster1-02_clus2
                       up/up     169.254.115.102/16 cluster1-02  e0b      true
   cluster1  cluster1-01_mgmt1
                       up/up     192.168.0.111/24  cluster1-01   e0c      true
            cluster1-02_mgmt1
                       up/up     192.168.0.112/24  cluster1-02   e0c      true
            cluster_mgmt1 up/up  192.168.0.101/24  cluster1-01   e0c      true
   svm1
            cluster1-01-iscsi_lif_1
                       up/up     192.168.0.141/24  cluster1-01   e0c      true
```

Referring to the exhibit, which physical are hosting the cluster interconnect interfaces on the nodes in Cluster1?

A. e0a and e0e
B. e0a and e0b
C. e0b and e0c
D. e0c and e0a

Answer: B

NEW QUESTION 34
You have a RAID-DP aggregate with 42x 4 TB NL-SAS drives. The aggregate contains 3x RAID groups of 14 drives each (12 data + 2 parity), for a total of 36 data and 6 parity drives. You decide to convert the aggregate to RAID-TEC for higher resiliency.
How many spare 4 TB drives are needed to complete the conversion?

A. 2
B. 1
C. 3
D. 4

Answer: C

NEW QUESTION 36
Where would a cluster administrator move a FlexVol volume using the volume move command?

A. to aggregates on other nodes in the cluster
B. only to an aggregate on the partner node
C. to any node that does not host a SnapMirror of the same FlexVol
D. to another SVM in the cluster

Answer: A

NEW QUESTION 39
Which two statements about replicating FlexGroup volumes are true? (Choose two.)

A. You can increase the capacity of a FlexGroup volume that is being replicated.
B. You cannot perform a resync on a FlexGroup SnapMirror relationship after it has been broken.
C. The SnapMirror relationship type must be XDP.
D. The SnapMirror relationship type must be DP.

Answer: AB

NEW QUESTION 42
A user cannot delete the files in a volume's Snapshot copy. In this scenario, what is the problem?

A. A retention period was configured for the Snapshot copy.
B. Snapshot copies are read only.
C. The files are being used by another user.
D. The user does not have the required permission.

Answer: B

NEW QUESTION 44
Which NetApp tool is used to perform a configuration validation and health check that includes a high availability setup?

A. SnapCenter
B. Hardware Universe
C. Config Advisor
D. Inventory Collect Tool

Answer: C

NEW QUESTION 45
An SVM is configured to authenticate SVM administrators with the access method set to Password. A computer account for the SVM exists on the Active Directory domain controller. You are now required to authenticate administrators through the domain.
Which two steps are required to accomplish this task? (Choose two.)

A. Re-create the computer account for the SVM on the domain.
B. Create a login account on the cluster for the domain users with an access method of "domain".
C. Create a custom role for all users who belong to the domain.
D. Configure the SVM as a tunnel to the domain.

Answer: BD

NEW QUESTION 46
A cluster is running ONTAP 9.3. You create a SnapMirror relationship and specify the type as DR and the policy as MirrorAllSnapshots. When you view the newly created relationship; you notice that the policy is MirrorAllSnapshots, but the type is XDP, not DP.
In this scenario, why is the type XDP instead of DP?

A. ONTAP 9.3 does not support DP.
B. The source NetApp cluster is running an older version of ONTAP.
C. ONTAP 9.3 defaults all new relationships to XDP.
D. The MirrorAllSnapshots policy is available only for XDP.
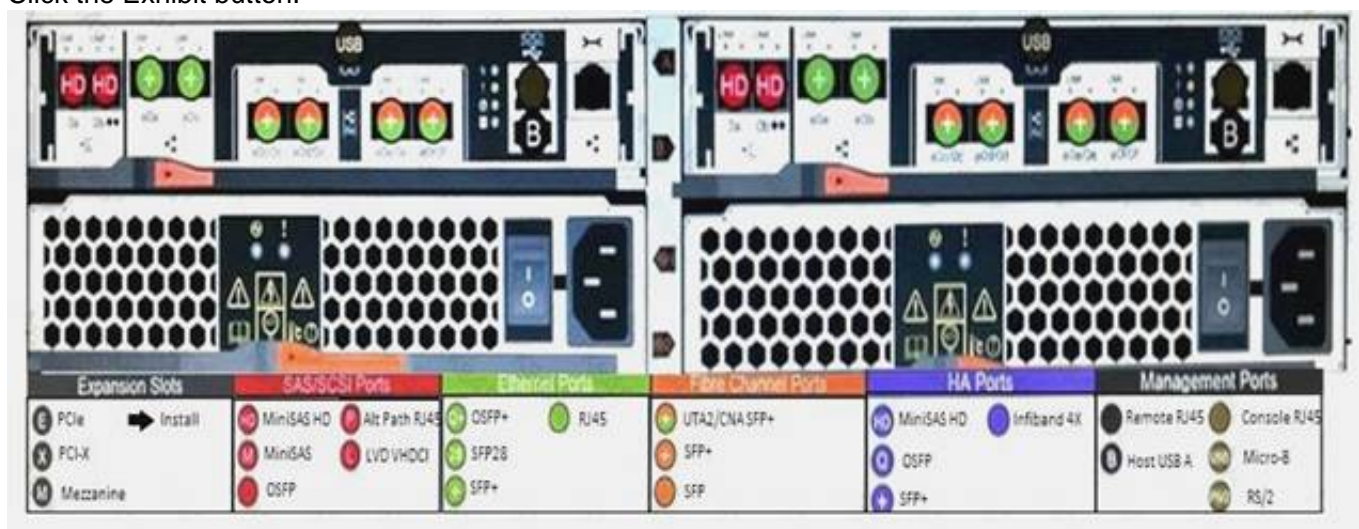
Answer: B

NEW QUESTION 50
You need to create a new LIF on WLAN 10. The port-channel configuration on the upstream switch has VLAN 10 set to the native (untagged) VLAN.
In this scenario, what should be set as the LIF's home port?

A. a0a
B. a0a-10
C. e0c-10
D. e0c

Answer: B

NEW QUESTION 55
Click the Exhibit button.

According to NetApp best practice, which ports are supported for FC as shown in the exhibit?

A. SAS Ports
B. HA Ports
C. Management Ports
D. UTA2 Ports

Answer: D

NEW QUESTION 60
You are using an AFF A700.
In this scenario, which two default storage efficiency techniques will help save space? (Choose two.)

A. postprocess deduplication
B. inline deduplication

C. postprocess compaction
D. inline compression

Answer: BD

NEW QUESTION 65
You have an 8-node cluster and need to test a ping to all cluster interconnect ports between all of the eight in one command.
Which advanced command would accomplish this task?

A. cluster ping-cluster
B. network ping6
C. network ping
D. cluster peer ping

Answer: A

NEW QUESTION 70
The vsadmin account for SVM vs1 is unlocked and configured with a password.
Which two statements are true about login methods for the vsadmin account? (Choose two.)

A. You access SSH.
B. You access ONTAP API
C. You access Onommand System Manager.
D. You access Onommand Unified Manager.

Answer: AB

NEW QUESTION 73
Which privilege is assigned to the vsadmin-backup role?

A. managing volumes
B. managing Snapshot copies
C. configuring LIFs for cluster peering
D. configuring SnapMirror relationships between clusters

Answer: D

NEW QUESTION 76
You relocate an aggregate to a different node by using the storage aggregate relocate command. In this scenario, which rule applies?

A. You can only relocate an aggregate that is not assigned to a specific SVM.
B. You must first break the relationship to move an aggregate that hosts a replication destination.
C. You can only relocate an aggregate to the HA partner node.
D. You cannot relocate an aggregate that is hosting a FlexGroup constituent volume.

Answer: C

NEW QUESTION 80
When FCoE is used in a cluster, which feature must be licensed?

A. iSCSI
B. CIFS
C. NFS
D. FCP

Answer: D

Explanation: FCP license must be enabled on the cluster.

NEW QUESTION 82
Click the Exhibit button.

```
alphana1::> ifgrp a0a -instance

                  Node: alphana1-01
Interface Group Name: a0a
Distribution Function: port
Create Policy: singlemode
MAC Address: 02:a0:98:76:e5:db
Port Participation:full
Network Ports: e0a, e0b
Up Ports: e0a, e0b
Down Ports: -
```

While troubleshooting performance issues, you notice that only one port in the NetApp interface group a0a is actively sending or receiving data.
Referring to the exhibit, what should you do to ensure that both ports in the interface group are actively used?

A. Change the distribution function to ip.
B. Verify that the network switch has flow-control enabled.
C. Change the interface group mode to multimode_lacp.
D. Verify that the physical cabling is properly connected to ensure a network link.

Answer: C

NEW QUESTION 86
You want to create an SVM disaster recovery relationship for a production SVM. When you create the destination SVM, which vserver subtype should you choose?

A. dp-destination
B. sync-destination
C. default
D. sync-source

Answer: B

NEW QUESTION 89
When a storage QoS policy is configured, which two metrics are configured with a maximum limit? (Choose two.)

A. TOPS
B. latency
C. MBps
D. concurrent connections

Answer: AC

NEW QUESTION 93
What are three advantages of configuring network subnets? (Choose three.)

A. The default gateway is automatically added to the SVM.
B. The DNS zone is automatically set on the NAS LIF.
C. The subnet mask is automatically set on the NAS LIF.
D. The flow control is automatically set on the port.
E. The IP address is automatically set on the NAS LIF.

Answer: ABE

NEW QUESTION 96
A customer requires that their data is fully protected from theft, both at the volume layer and at the disk layer. Which two features of ONTAP satisfy this requirement? (Choose two.)

A. Kerberos
B. NetApp Volume Encryption
C. Challenge Handshake Authentication Protocol
D. NetApp Storage Encryption

Answer: BD

NEW QUESTION 98
What are two security types available for NFSv3 shares? (Choose two.)

A. mixed
B. Kerberos v5
C. AUTH_SYS
D. unified

Answer: BC

NEW QUESTION 99
Which three data protocols are supported simultaneously in a single storage virtual machine (SVM)? (Choose three.)

A. InfiniBand
B. CIFS
C. iSCSI
D. HTTP
E. FCP

Answer: BCE

Explanation: Reference
https://library.netapp.com/ecmdocs/ECMP1636037/html/GUID-376578BA-A7DA-45F6-A1D5-972D6A7A741

NEW QUESTION 104
Where would you look to find the minimum and the maximum number of array LUNs supported by FlexArray?

A. OneCollect
B. Config Advisor
C. Hardware Universe
D. Interoperability Matrix Tool (IMT)

Answer: C

NEW QUESTION 109
Which two LIF role types allow LIF migration among nodes? (Choose two.)

A. cluster management
B. node management
C. intercluster
D. data

Answer: AD

NEW QUESTION 110
What are two benefits of using quad-path HA cabling on an AFF A700? (Choose two.)

A. It provides double the I/O bandwidth to a stack.
B. It improves resilience of the cluster.
C. It improves cluster failover time.
D. It provides double the number of shelves that you can attach.

Answer: AB

NEW QUESTION 111
Click the Exhibit button.

```
alphana1::qos> qos policy-group show
Name       Vserver       Class          Wklds     Throughput
--------   -----------   -----------    --------   -----------
BronzeQoS  alphasan1     user-defined   2          0-50MB/s
BronzeQoS  lab-fs1       user-defined   4          0-1000IOPS
2 entries were displayed.


alphana1::qos> vol show -fields vserver,volume,qos-policy-group
vserver       volume         qos-policy-group
-----------   -----------    --------------------
alphana1-01   vol0           -
alphana1-02   vol0           -
alphasan1     alphasan1      BronzeQoS
alphasan1     labesx_boot    -
alphasan1     labrvm_boot    -
alphasan1     labxen_boot    -
alphasan1     sql_cls        BronzeQoS
lab-fs1       lab_fs1_root   -
lab-fs1       shares0        BronzeQoS
lab-fs1       images0        BronzeQoS
lab-fs1       iso_images     BronzeQoS
lab-fs1       home_dirs      BronzeQoS
12 entries were displayed.
```

Referring to the exhibit, what is the throughput limit for the shares0 volume?

A. 250 IOPS
B. 25 MB/s
C. 50 MB/s
D. 1000 IOPS

Answer: D

NEW QUESTION 114
You have a 4-node cluster and want to ensure that a new NAS LIF can fail over to any node. In this scenario, which two actions are required to configure the LIF?
(Choose two.)

A. Add ports from all nodes to the LIF's broadcast domain.
B. Configure the failover policy to broadcast-domain-wide.
C. Add ports from all nodes to the LIF's home port list.
D. Configure the failover policy to system-defined.

Answer: AD

NEW QUESTION 116
Which three configurations does ONTAP Select support? (Choose four.)

A. 2-node cluster hosting NAS and iSCSI
B. 3-node cluster hosting NAS and iSCSI
C. single-node cluster hosting NAS and iSCSI
D. 4-node cluster hosting NAS and iSCSI
E. 6-node cluster hosting NAS and iSCSI

Answer: ACDE

Explanation: ONTAP Select can be deploy in a solution of 1, 2, 4, 6 or 8 nodes for NFS, SMB/CIFS & iSCSI

NEW QUESTION 119
You are provisioning a LUN for a new host.
In this scenario, which three objects must exist? (Choose three.)

A. volume
B. export policy
C. LUN
D. igroup
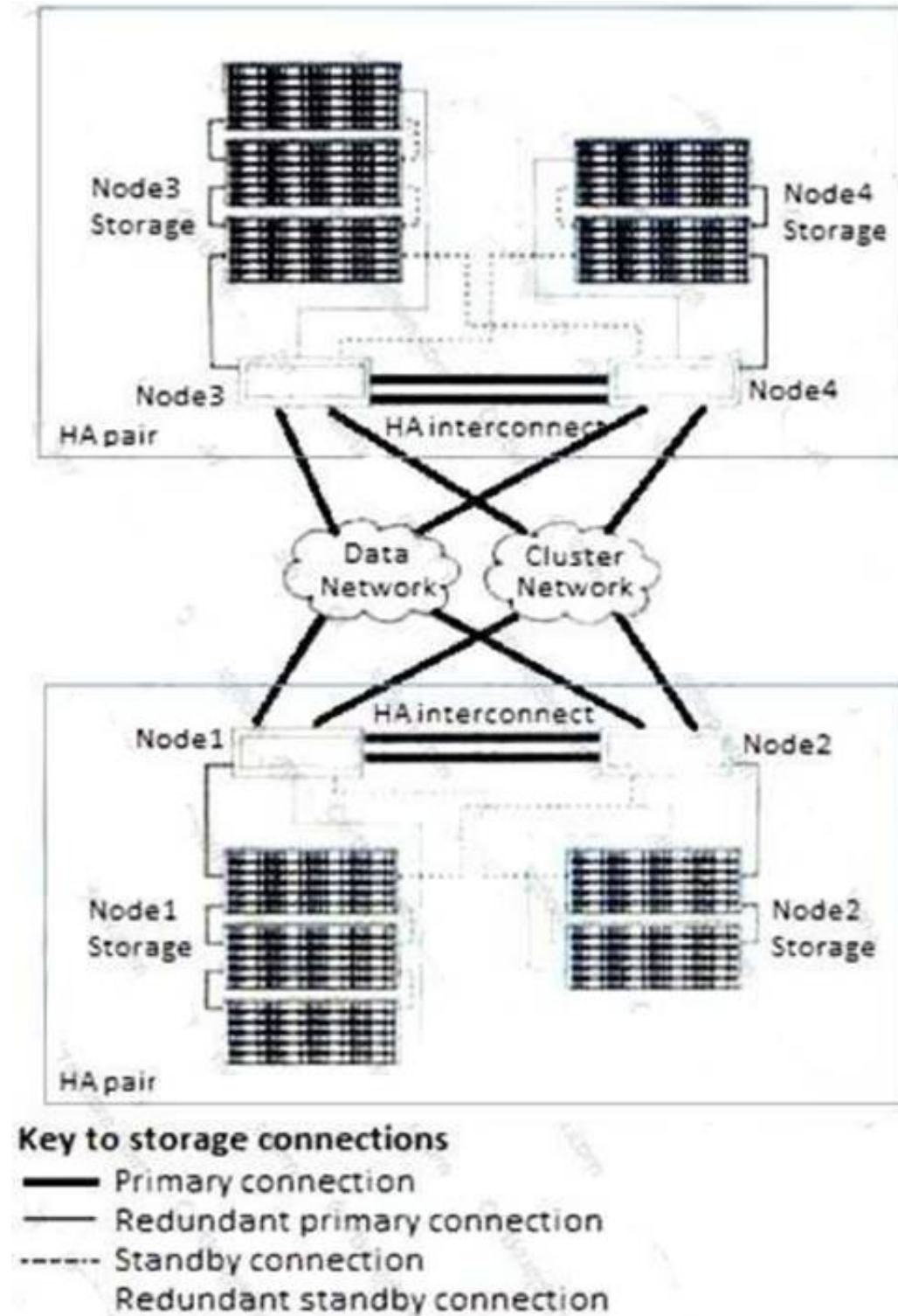E. interface group

Answer: ABC

NEW QUESTION 123

A storage administrator moves a LUN from one volume to another. In this scenario, what is left behind in the volume?

A. clones of the LUN
B. LUN geometry settings
C. all of the deduplicated blocks from the base LUN
D. Snapshot copies of the volume

Answer: C

NEW QUESTION 125
Click the Exhibit button.

Referring to the exhibit, what is a valid storage failover scenario?

A. Node 1 fails and Node 2 takes over Node 1's storage.
B. Node 2 fails and Node 3 takes over Node 2's storage.
C. Node 3 fails and Node 1 takes over Node 3's storage.
D. Node 4 fails and Node 2 takes over Node 4's storage.

Answer: A

NEW QUESTION 130
You want to create a FlexGroup volume that contains four aggregates with eight constituents each.
In this scenario, what is the value of the aggregate list multiplier?

A. 2
B. 32
C. 8
D. 4

Answer: D

NEW QUESTION 132
Your company requires storage administrators to use a second authentication method when accessing OnCommand System Manager and OnCommand Unified Manager. After entering their user name and password, administrators must enter a Personal Identity Verification (PIV) code from a smart card or a mobile device. With which resource would you accomplish this objective?

A. an Active Directory server
B. a third-party key manager
C. a third-party identity provider
D. the ONTAP onboard key manager

Answer: A

Explanation: https://www.netapp.com/us/media/tr-4647.pdf

NEW QUESTION 137
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