



# **Network-Appliance**

## **Exam Questions NS0-592**

NetApp Certified Support Engineer - ONTAP Specialist

## NEW QUESTION 1

Click the exhibit button.

```
cluster1::> -vserver VSEX -igroup esx8
igroup show
Vserver Name: VSEX
Igroup Name: esx8
Protocol: fcp
OS Type: vmware
Portset Binding -
Igroup:
Igroup UUID 27da5172-7b8f-11e2-bbf9-123478563412
ALUA: true
Initiators 20:00:00:25:b5:01:a0:08 (logged in)
            20:00:00:25:b5:01:a0:11 (not logged in)
            20:00:00:25:b5:01:a0:08 (logged in)
            20:00:00:25:b5:01:a0:11 (not logged in)
```

A customer has an FC SAN with brocade switches. Each server attached to the SAN has four FC ports. The customer describes that one of their servers has only four paths to the LUNs configured on the cluster. There should be eight paths on all the other servers. The switch administrator has verified the zone configuration. Referring to the exhibit, which two actions would you perform to troubleshoot the problem? (Choose two.)

- A. Review the LIF configuration on the cluster.
- B. Review the driver version on the server.
- C. Review that the host side FC link ports are enabled.
- D. Review the igroup configuration on the cluster.

**Answer: AB**

## NEW QUESTION 2

Click the exhibit button.

```
disk          ut%  xfers  ureads--chain-usecs  writes--chain-usecs  creads-chain-usecs
greads--chain-usecs  gwrites-chain-usecs
/aggr0_600sas/plex0/rg0:
0a.00.0        4   8.30    0.28    1.00      0   4.10   36.27   164   3.92   39.52   150   0.00   ....   .   0.00   ....   .
3b.03.0        5   8.67    0.28    1.00      0   4.57   32.78   175   3.82   38.93   121   0.00   ....   .   0.00   ....   .
0a.00.1       48  97.79   90.89   7.34   1240   2.05   13.41  1142   4.85   10.58   727   0.00   ....   .   0.00   ....   .
3b.06.11      48  87.63   82.13   7.64   1229   1.96   30.38   649   3.54   11.71   575   0.00   ....   .   0.00   ....   .
0a.00.2       49  91.64   85.86   7.39   1145   1.77   37.21   304   4.01    8.44   694   0.00   ....   .   0.00   ....   .
3b.03.2       52  96.58   91.73   8.18   1132   1.77   26.53   589   3.08   13.27  1021   0.00   ....   .   0.00   ....   .
0a.00.3       51  94.90   88.47   8.30   1159   2.24   17.96   647   4.20   14.47   522   0.00   ....   .   0.00   ....   .
0a.03.3       50  93.50   87.54   7.66   1143   1.96   25.86   378   4.01   11.81   957   0.00   ....   .   0.00   ....   .
0a.00.4       50  98.91   93.60   6.73   1242   1.96   26.29   694   3.36   13.78   613   0.00   ....   .   0.00   ....   .
3b.03.4       50  97.70   92.10   6.51   1349   1.77   29.63   549   3.82    9.10  1185   0.00   ....   .   0.00   ....   .
0a.00.5       47  83.90   77.93   8.68   1081   1.86   34.55   405   4.10   10.68   700   0.00   ....   .   0.00   ....   .
0a.03.5       52  95.09   89.87   7.51   1255   1.68   28.00   466   3.54   19.45   451   0.00   ....   .   0.00   ....   .
0a.00.6       50  91.45   85.95   7.34   1257   1.77   22.21   557   3.73   15.03   539   0.00   ....   .   0.00   ....   .
3b.03.6       51  92.29   87.26   8.32   1179   1.77   28.68   442   3.26   14.71   619   0.00   ....   .   0.00   ....   .
0a.00.7       48  92.38   87.35   7.66   1107   1.58   26.65   380   3.45   13.59   799   0.00   ....   .   0.00   ....   .
0a.03.7       51  97.79   91.92   8.02   1161   1.96   21.29   454   3.92   11.43   725   0.00   ....   .   0.00   ....   .
3b.05.18      33  59.48   53.60   4.05   2151   1.86   29.60   404   4.01   11.30   580   0.00   ....   .   0.00   ....   .
3b.06.9       33  60.22   54.63   3.91   1907   2.33   38.84   286   3.26   13.91   466   0.00   ....   .   0.00   ....   .
3b.05.20      33  57.52   51.55   4.86   1855   1.96   36.43   390   4.01   13.60   579   0.00   ....   .   0.00   ....   .
3b.05.21      34  60.59   55.00   4.43   1984   1.96   33.67   368   3.64   14.72   451   0.00   ....   .   0.00   ....   .
3b.05.22      33  55.37   49.22   5.51   1641   2.24   39.96   303   3.92   14.60   721   0.00   ....   .   0.00   ....   .
3b.05.23      32  63.11   57.33   4.04   1892   1.96   33.10   367   3.82   11.07   780   0.00   ....   .   0.00   ....   .
/aggr0_600sas/plex0/rg1:
0a.00.8        3   5.50    0.00   ....      .   2.52   61.00   124   2.98   53.50   61   0.00   ....   .   0.00   ....   .
3b.03.8        2   5.50    0.00   ....      .   2.52   61.00   107   2.98   53.50   67   0.00   ....   .   0.00   ....   .
0a.00.9       50  87.63   80.92   7.55   1353   2.24   20.17   593   4.47   11.56   969   0.00   ....   .   0.00   ....   .
3b.04.23      51  96.02   89.87   7.88   1210   1.77   20.37   581   4.38   10.91   655   0.00   ....   .   0.00   ....   .
0a.00.10      52  99.10   93.78   6.93   1405   1.68   21.72   691   3.64   11.69   732   0.00   ....   .   0.00   ....   .
3b.03.10      52
101.33  95.74  6.89  1409   1.86  19.85   683   3.73   6.60  1170   0.00   ....   .   0.00   ....   .
0a.00.11      52  97.88   92.10   6.98   1271   1.68   17.17   874   4.10    7.32  1140   0.00   ....   .   0.00   ....   .
0a.03.11      47  88.38   81.66   8.34   1087   1.96   16.62   722   4.75    7.06  1522   0.00   ....   .   0.00   ....   .
0a.00.12      50  96.58   90.43   8.09   1136   2.14   16.48   760   4.01   11.37   630   0.00   ....   .   0.00   ....   .
3b.03.12      47  89.12   82.87   8.04   1117   2.14   17.91   755   4.10    8.05   887   0.00   ....   .   0.00   ....   .
0a.00.13      50  90.24   83.25   7.96   1209   2.14   18.61   551   4.85    9.15   592   0.00   ....   .   0.00   ....   .
0a.03.13      52  91.54   85.11   8.14   1319   2.05   25.82   572   4.38   10.96   786   0.00   ....   .   0.00   ....   .
0a.00.14      52
104.22  98.16  7.81  1194   1.86  16.05   654   4.20    8.20   791   0.00   ....   .   0.00   ....   .
3b.03.14      49  91.27   85.67   7.75   1127   1.77   20.32   806   3.82   11.27   680   0.00   ....   .   0.00   ....   .
0a.00.15      53
106.09  99.47  7.03  1303   2.14  21.52   685   4.47    7.85   899   0.00   ....   .   0.00   ....   .
0a.03.15      48  89.49   83.43   7.96   1238   2.05   16.77   783   4.01    9.91   742   0.00   ....   .   0.00   ....   .
3b.06.1       25  46.24   40.04   5.60   1454   2.14   29.17   463   4.01   15.12   418   0.00   ....   .   0.00   ....   .
```

0a.03.9	24	42.23	35.61	4.79	1721	2.42	27.50	302	4.20	16.73	331	0.00	....	.	0.00	....	.
3b.06.3	25	48.76	42.79	4.83	1582	2.14	38.35	290	3.82	19.44	442	0.00	....	.	0.00	....	.
3b.03.22	22	45.68	39.53	5.41	1257	2.24	28.54	349	3.92	13.00	546	0.00	....	.	0.00	....	.
3b.06.5	24	47.54	41.48	5.31	1280	2.24	35.83	291	3.82	18.00	314	0.00	....	.	0.00	....	.
3b.06.7	26	49.04	41.86	5.14	1502	2.33	35.08	383	4.85	15.35	434	0.00	....	.	0.00	....	.

A customer reports that storage latency has recently increased substantially. No changes have been introduced, and the traffic did not change. Referring to the output shown in the exhibit, which corrective step should be taken?

- A. Add more spindles.
- B. Throttle the client traffic.
- C. Perform the volume reallocation.
- D. Move some volumes off the affected aggregate.

Answer: B

NEW QUESTION 3

Your customer added a new DS2246 shelf to an existing stack on their FAS8060A system. The customer then noticed that the new shelf's disks appear with the shelf serial number instead of the shelf ID in the sysconfig -r command output. What is the reason for this problem?

- A. The SAS is cabled incorrectly.
- B. There is failed IOM module in the new shelf.
- C. The ACP is cabled incorrectly.
- D. The new shelf has the same ID as another shelf.

Answer: A

NEW QUESTION 4

A customer performs a takeover and giveback of their controllers and notices that several of their NFS clients lose access to their volumes for a short period of time during the SFO process. The customer reviewed the LIF failover policies, and the policies are correct. What is the reason for this behavior?

- A. The clients are using NFSv4 to access the volumes.
- B. The export policies are incorrect and must be updated with node's HA partner LIF information.
- C. A firewall is blocking the necessary network ports and needs to be updated to allow NFS communication.
- D. NFSv4 file locks need to be broken manually before initiating an SFO operation.

Answer: A

NEW QUESTION 5

Click the exhibit button.

```
cluster01::> broadcast-domain show -bdbroadcast-domain Storage
```

IPspace	Broadcast			Update
Name	Domain Name	MTU	Port List	Status Details
Default	Storage	1500		
			cluster01-04:a0a-40	complete
			cluster01-04:eOM	complete
			cluster01-05:a0a-40	complete
			cluster01-05:eOM	complete
			cluster01-06:a0a-40	complete
			cluster01-06:eOM	complete
			cluster01-03:a0a-40	complete
			cluster01-03:eOM	complete

A customer notifies you that Active IQ is showing a warning that a broadcast domain in their environment has been configured with ports from multiple VLANs. Referring to the exhibit, which two statements are correct? (Choose two.)

- A. You should move the eOM ports to a Broadcast Domain that is dedicated to only management traffic.
- B. A VLAN tag cannot be assigned to the eOM port, so the configuration is acceptable.
- C. You should configure eOM so that is tagged on VLAN 40.
- D. You should change the LIF service policy to net-intercluster to prevent the LIFs from failing over to the eOM ports.

Answer: CD

NEW QUESTION 6

Click the exhibit button.



```
cluster01::> job show -id 18 -fields progress

id vserver
progress

-----

18 cluster01 "Cutover Deferred, Waiting for user intervention(10.30MB Sent)::Volume
move job preparing transfer"
```

A volume move operation has been initiated to move a volume named MirrScr from one aggregate to another. The operation failed with the error that is shown in the exhibit.

In this scenario, which statement is correct?

- A. Manually trigger the cutover process in order to restart the job.
- B. The volume move cannot be completed at this time because of high use in this node.
- C. There are too many snapshots on the source volume.
- D. Cancel and restart the volume move operation.

**Answer:** A

#### NEW QUESTION 7

Your customer states that the storage efficiency on their FAS 8200 is far below what they had expected for a VMware NFS datastore. They enabled deduplication three days ago. The job ran every night for only 10-20 minutes, and the space savings now is less than 5%.

What is causing the space savings to be so low?

- A. They have enabled aggregate-level inline data compaction, so the savings are at the aggregate level.
- B. They have enabled aggregate-level inline deduplication, so the savings are at the aggregate level.
- C. They have not enabled volume-level compression.
- D. They have not run a baseline deduplication to scan old data.

**Answer:** C

#### NEW QUESTION 8

A customer's FAS8200 node1 went down an hour ago after a WAFL inconsistency error. All data is being served from partner node2, but the storage failover show command output is not showing a node1 as "Waiting for giveback".

What is the corrective action for this situation?

- A. Re-create the root aggregate on node1.
- B. Boot the system and run the wafiron command on the inconsistent data aggregate.
- C. From the LOADER prompt, run the wafiron command on the system's root aggregate.
- D. Boot the system and run the WAFL\_check command on the inconsistent data aggregate.

**Answer:** A

#### NEW QUESTION 9

A customer complains that the copy offload does not work when copying large file from a Windows 8 client between the CIFS shares that are hosted on the same ONTAP cluster.

What are two reasons for this problem? (Choose two.)

- A. Deduplication is not enabled on the destination volume.
- B. The client should be using Windows 10 for ODX support.
- C. The source and target volumes reside on different cluster nodes.
- D. SMB 3.0 disabled on the CIFS SVM.

**Answer:** AD

#### NEW QUESTION 10

The root aggregate on your single-node ONTAP cluster failed. You have the configuration backups saved on your FTP server?

In this scenario, which two steps are part of the recovery procedure? (Choose two.)

- A. Perform a Netboot using the configuration backup.
- B. Create a new aggregate and set its ha\_policy option to sfo.
- C. Boot into maintenance mode.
- D. Create a new root aggregate and set its ha\_policy option to cfo.

**Answer:** CD

#### NEW QUESTION 10

A customer calls you about a performance issue that they experienced over the past few days. They want to know if data collection and root cause analysis (RCA) is possible for this issue. This issue appears to be a one time event.

Which tool would be used to satisfy the customer's request?

- A. perfstat
- B. perfmon

- C. OneCollect  
D. Performance Archive

Answer: C

#### NEW QUESTION 15

Click the exhibit button.

```

===== SAS-EXPANDER-MAP =====
Expanders on channel 0a:
Level 1: WWN 500a098005f0ed3f, ID 0, Serial Number ' SHJHU1527000148', Product
'DS424IOM6E', Rev '0172', Slot A
Level 2: WWN 500a098005b053bf, ID 1, Serial Number ' SHJHU1516001218', Product
'DS224IOM6', Rev '0191', Slot A
Level 3: WWN 500a09800772e3bf, ID 2, Serial Number ' SHJHU1653000119', Product
'DS424IOM6', Rev '0191', Slot A
Level 4: WWN 500a098005af77bf, ID 1, Serial Number ' SHJHU1516001218', Product
'DS224IOM6', Rev '0191', Slot B
Level 5: WWN 500a09800773b8bf, ID 2, Serial Number ' SHJHU1653000119', Product
'DS424IOM6', Rev '0191', Slot B

Expanders on channel 0b:
Level 1: WWN 500a09800773b8bf, ID 2, Serial Number ' SHJHU1653000119', Product
'DS424IOM6', Rev '0191', Slot B
Level 2: WWN 500a098005af77bf, ID 1, Serial Number ' SHJHU1516001218', Product
'DS224IOM6', Rev '0191', Slot B
Level 3: WWN 500a09800772e3bf, ID 2, Serial Number ' SHJHU1653000119', Product 'DS424IOM6', Rev '0191',
Level 4: WWN 500a098005b053bf, ID 1, Serial Number ' Slot A
Level 5: WWN 500a098005f0ed3f, ID 0, Serial Number ' SHJHU1516001218', Product 'DS224IOM6', Rev '0191',
Slot A
SHJHU1527000148', Product 'DS424IOM6E', Rev '0172',
Slot A
    
```

Your customer added a new DS4246 shelf to their FAS system. They created an aggregate on the new shelf. Two weeks later, they log in to Active IQ and discover the Medium Impact error shown below.

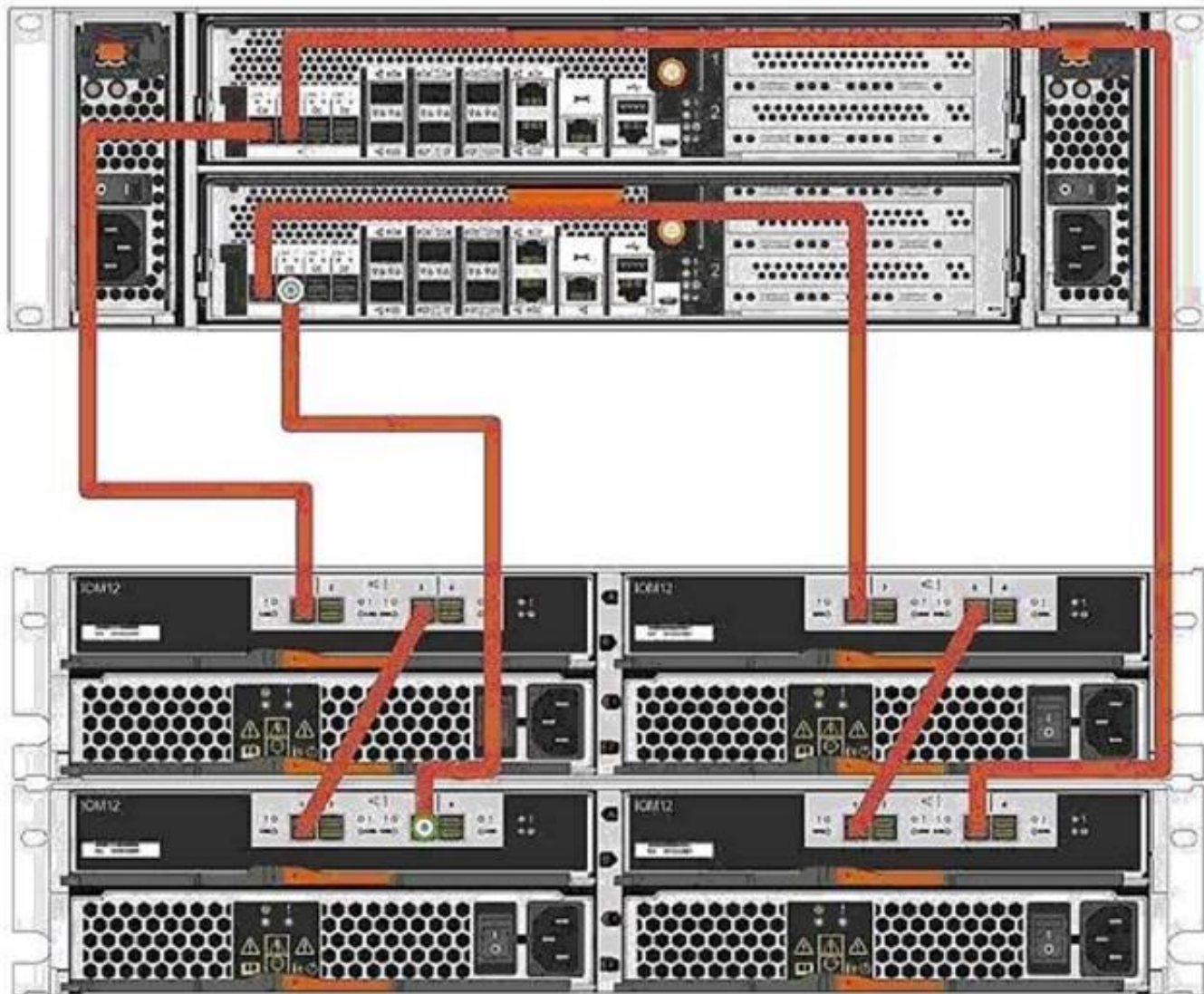
“Both SAS connections from one controller go to the same shelf.” Referring to the exhibit, which statement is correct?

- A. You are unable to obtain a “Cable Visualization” overview from Active IQ.  
B. A faulty cable is causing the problem.  
C. A faulty IOM is causing the problem.  
D. You can correct this problem without downtime on the FAS system.

Answer: D

#### NEW QUESTION 19

Click the exhibit button.



You have just cabled a new shelf to a FAS8200. Running the system node run -node \* sysconfig - a command indicates that multipath HA is configured. However, after running Config Advisor, you receive an error that your cabling is incorrect.

As indicated in the exhibit, which two actions will correct the cabling? (Choose two.)

- A. Move the 0b SAS connection on the bottom controller to 0d on the bottom controller.

- B. Move the 0b SAS connection on the top controller to 0d on the top controller.
- C. Move the 0b SAS connection on the top controller to 0d on the bottom controller.
- D. Move the 0b SAS connection on the bottom controller to 0d on the top controller.

**Answer:** AB

#### NEW QUESTION 24

Which two statements are true about a data volume? (Choose two.)

- A. A data volume can be accessed by a LIF on any node.
- B. A data volume can be moved to any aggregate with space for it in the cluster.
- C. A data volume can be accessed by a user connected to any SVM.
- D. An SVM root or root load sharing mirror volume must be present on every node.

**Answer:** AB

#### NEW QUESTION 25

A customer has created an interface group (igroup) named a0a, a VLAN named a0a-2500, and a data LIF associated with the VLAN interface that has been assigned an IP of 10.254.10.100. The customer is able to ping 10.254.10.100 from a Windows client without any issues, but data traffic is not working. In this scenario, what is the solution to the problem?

- A. Disable flow control on the a0a interface.
- B. Configure an appropriate service policy for the data LIF.
- C. Correct the MTU mismatch between the broadcast domain configuration and the upstream network switches.
- D. Allow data traffic by using LIF firewall policies.

**Answer:** D

#### NEW QUESTION 30

The error message shown below is reported in the EMS log file.

"[sis.changelog.full:warning]: Change logging metafile on volume DATA1 is full and can not hold any more fingerprint entries."

What are two ways to solve this problem? (Choose two.)

- A. Clear the changelog manually so that the operation can restart.
- B. Increase the size of the changelog to allow the operation to continue.
- C. Modify the storage efficiency policy so that deduplication runs more frequently.
- D. Modify the threshold that triggers a deduplication operation.

**Answer:** BD

#### NEW QUESTION 31

A customer has requested your assistance with replacing a DS224C disk shelf from their cluster nondisruptively. Which two actions should be performed before physically replacing the shelf? (Choose two.)

- A. Verify that the system is configured as multipath high availability.
- B. Upgrade the IOMs in the shelf before starting the removal process.
- C. Verify that the drives in the shelves are spares and ownership is removed.
- D. Zero the disks before performing the physical shelf removal.

**Answer:** AC

#### NEW QUESTION 36

Click the exhibit button.



```
cluster1::*> network interface show -vserver FS -fields data-protocol,curr-node,curr-port,is-home
vserver lif  data-protocol curr-node  curr-port is-home
-----
FS      lif01 cifs          cluster1-01 e0d      true
FS      lif02 cifs          cluster1-02 e0d      true
2 entries were displayed.
```

```
cluster1::*> vserver cifs share show -vserver FS -share-name Users
```

```

Vserver: FS
Share: Users
CIFS Server NetBIOS Name: FS1
Path: /Users
Share Properties: oplocks
                  browsable
                  changenotify
                  show-previous-versions
Symlink Properties: symlinks
File Mode Creation Mask: -
Directory Mode Creation Mask: -
Share Comment: -
Share ACL: Everyone / Full Control
File Attribute Cache Lifetime: -
File Mode Creation Mask: -
Directory Mode Creation Mask: -
Share Comment: -
Share ACL: Everyone / Full Control
File Attribute Cache Lifetime: -
Volume Name: Users
Offline Files: manual
Vscan File-Operations Profile: standard
Maximum Tree Connections on Share: 4294967295
UNIX Group for File Create: -
```

```
cluster1::*> vserver cifs options show -vserver FS
```

```
Vserver: FS

Client Session Timeout: 900
Copy Offload Enabled: true
Default Unix Group: -
Default Unix User: pcuser
Guest Unix User: -
Are Administrators mapped to 'root': true
Is Advanced Sparse File Support Enabled: true
Is Fsctl File Level Trim Enabled: true
Direct-Copy Copy Offload Enabled: true
Export Policies Enabled: false
Grant Unix Group Permissions to Others: false
Is Advertise DFS Enabled: false
Is Client Duplicate Session Detection Enabled: true
Is Client Version Reporting Enabled: true
Is DAC Enabled: false
Is Fake Open Support Enabled: true
Is Hide Dot Files Enabled: false
Is Large MTU Enabled: false
Is Local Auth Enabled: true
Is Local Users and Groups Enabled: true
Is Multichannel Enabled: false
Is NetBIOS over TCP (port 139) Enabled: true
Is NBNS over UDP (port 137) Enabled: false
Is Referral Enabled: true
...
SMB1 Enabled: false
Max Buffer Size for SMB1 Message: 65535
SMB2 Enabled: true
SMB3 Enabled: true
SMB3.1 Enabled: true
Map Null User to Windows User or Group: -
WINS Servers: -
Report Widelink as Reparse Point Versions: SMB1
Max Credits to Grant: 128
```

Referring to the exhibit, which change is required to enable the CIFS Autolocation function for the Users share?

- A. Edit the CIFS share's properties to remove the changenotify property.
- B. Re-create the LIFs to allow both CIFS and NFS protocols.
- C. Change the CIFS share's Symlink Properties parameter to symlinks.
- D. Modify the CIFS server's option to enable SMB multichannel.

Answer: C

NEW QUESTION 39

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