

NS0-591.VCEplus.premium.exam.60q

Number: NS0-591
Passing Score: 800
Time Limit: 120 min
File Version: 1.0



Website: <https://vceplus.com>

VCE to PDF Converter: <https://vceplus.com/vce-to-pdf/>

Facebook: <https://www.facebook.com/VCE.For.All.VN/>

Twitter : https://twitter.com/VCE_Plus

NS0-591

NetApp Certified Support Engineer, ONTAP Specialist



Version 1.0

Exam A

QUESTION 1

A customer mentions that their intercluster SnapMirror replication operations consistently take much longer than normal. While troubleshooting, you want to initiate a test SnapMirror session to collect performance data.

How would you accomplish this task?

- A. Run the `network test-path` command to simulate a SnapMirror connection and record the latency/throughput data.
- B. View the active network connections to the node to see if there a large number of active connections.
- C. Use the `ifstat` command to collect network performance data for the physical interface.
- D. Run the `network statistics lif show` command for the intercluster LIF to simulate a network connection.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2496256 (19)

QUESTION 2

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`.



Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1032066/~/_how-to-move-mroot-to-a-new-root-aggregate-in-a-single-node-cluster-

QUESTION 3 When does ONTAP overwrite a block that contains existing data?

- A. after a user edits a file
- B. after the block has been marked free
- C. when file permissions are changed
- D. when a file is copied in a LUN

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

Your customer has initiated several `volume move` commands to redistribute the workload in their 8-node cluster. To verify that this process is not affecting their client access, they were monitoring the network switches that provide client access, but they do not see the network load of the `volume move` command.

In this scenario, what is the reason for the behavior?

- A. The `volume move` command uses the HA iWarp interconnect, not the client access switches.
- B. The `volume move` command uses copy offload protocol, so it does not show up when monitored.
- C. The `volume move` command uses the intercluster LIFs, not the data LIFs.
- D. The `volume move` command uses the cluster interconnect switches, not the client access switches.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5 A customer reports that a takeover has been disabled on an HA pair.

What would be a cause for this to happen?

- A. The HA interconnect is not functioning properly.
- B. There is a disk running too hot.
- C. The interface for the hardware assist has become unavailable.
- D. The cluster network is not functioning properly.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1004174/~/what-are-the-common-causes-of-high-availability-takeover-impossible-events%3F-

QUESTION 6

Click the exhibit button.

CPU	NFS	CIFS	HTTP	Total	Net in	kB/s out	HDD read	kB/s write	SSD read	kB/s write	Tape read	kB/s write	Cache age	Cache hit	CP time	CP ty	HDD util	SDD util	OTHER	FCP	iSCSI	FCP	Kb/s in	Kb/s out	Iscsi in	Kb/s out
20%	89	31	0	127	52	93	8	12	0	0	0	0	31s	100%	0%	-										
0%	0%	0%	0	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										
4%	43	1	0	44	20	64	8	16	0	0	0	0	31s	100%	0%	-										
0%	0%	0%	0	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										
1%	0	5	0	5	7	77	4	12	0	0	0	0	31s	100%	0%	-										
0%	0%	0%	0	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										
1%	4	12	0	16	12	99	0	0	0	0	0	0	31s	100%	0%	-										
0%	0%	0%	0	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										
1%	10	0	0	10	14	8	4	12	0	0	0	0	31s	100%	0%	-										
0%	0%	0%	0	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										
2%	12	18	0	34	17	12	920	2344	0	0	0	0	31s	100%	13%	T	4%	0%	4	0	0	0	0	0	0	0
0%	23	39	0	62	16	15	4	4	0	0	0	0	31s	100%	0%	-										
0%	0%	0%	0	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										
1%	11	55	0	66	30	17	8	24	0	0	0	0	31s	100%	0%	-										
0%	0%	0%	0	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										
1%	80	33	0	113	52	33	0	0	0	0	0	0	31s	100%	0%	-										
0%	0%	0%	0	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										
0%	43	27	0	70	41	21	0	0	0	0	0	0	31s	100%	0%	-										
0%	0%	0%	0	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										
1%	25	9	0	41	20	16	16	24	0	0	0	0	31s	99%	0%	-										
0%	0%	0%	7	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										
1%	75	0	0	75	70	25	4	4	0	0	0	0	31s	100%	0%	-										
0%	0%	0%	0	0	0	0	0	0	0	0	0	0	31s	100%	0%	-										

```
smb2:IODSSNA002C1:session_setup_ops:30/s
smb2:IODSSNA002C1:session_setup_latency:5859166.83us
smb2:IODSSNA002C1:session_setup_latency_histogram.<20us:2
smb2:IODSSNA002C1:session_setup_latency_histogram.<40us:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<60us:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<80us:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<600us:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<800us:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<1ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<2ms:1
smb2:IODSSNA002C1:session_setup_latency_histogram.<4ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<6ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<8ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<10ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<12ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<14ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<16ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<18ms:1
smb2:IODSSNA002C1:session_setup_latency_histogram.<20ms:2
smb2:IODSSNA002C1:session_setup_latency_histogram.<40ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<60ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<80ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<100ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<200ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<400ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<600ms:0
smb2:IODSSNA002C1:session_setup_latency_histogram.<800ms:87
smb2:IODSSNA002C1:session_setup_latency_histogram.<1s:264
smb2:IODSSNA002C1:session_setup_latency_histogram.<2s:118
smb2:IODSSNA002C1:session_setup_latency_histogram.<4s:482
smb2:IODSSNA002C1:session_setup_latency_histogram.<6s:256
smb2:IODSSNA002C1:session_setup_latency_histogram.<8s:230
smb2:IODSSNA002C1:session_setup_latency_histogram.<10s:300
smb2:IODSSNA002C1:session_setup_latency_histogram.<20s:0
```



Many end users are complaining that logging in their systems takes a long time. When the login to the desktop finishes, everything is fine. The home directories are on NetApp storage. You do not see any significant disk or CPU contention on the controller, so you gather output statistics from the controller and focus on SMB.

Referring to the exhibit, which two actions would help diagnose the problem? (Choose two.)

- A. Engage your Windows team to make sure that the domain controllers are not overloaded.
- B. Engage your desktop team to collect network traces from the clients.
- C. Collect more statistics to determine whether the controller itself is causing latency.
- D. Engage your network team to make sure that there are no issues between the storage controller and the domain controller.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

Click the exhibit button.


```
Fri Sep 21 06:38:52 CEST [cluster1: spmd: spm.ntpd.process.exit:error]: The ntpd with
ID 50230 exited as a result of normal exit (20). This server will attempt to restart.
Fri Sep 21 06:38:52 CEST [cluster1: spmd: spm.ntpd.process.exit:error]: The ntpd with
ID 50231 exited as a result of normal exit (20). This server will attempt to restart.
Fri Sep 21 06:38:52 CEST [cluster1: spmd: spm.ntpd.process.exit:error]: The ntpd with
ID 50233 exited as a result of normal exit (20). This server will attempt to restart.
Fri Sep 21 06:38:52 CEST [cluster1: spmd: spm.ntpd.process.exit:error]: The ntpd with
ID 50233 exited as a result of normal exit (20). This server will attempt to restart.
Fri Sep 21 06:38:52 CEST [cluster1: spmd: spm.ntpd.process.exit:error]: The ntpd with
ID 50234 exited as a result of normal exit (20). This server will attempt to restart.
Fri Sep 21 06:38:52 CEST [cluster1: spmd: spm.ntpd.process.exit:error]: The ntpd with
ID 50235 exited as a result of normal exit (20). This server will attempt to restart.
Fri Sep 21 06:38:52 CEST [cluster1: spmd: spm.ntpd.process.exit:error]: The ntpd with
ID 50236 exited as a result of normal exit (20). This server will attempt to restart.
Fri Sep 21 06:38:52 CEST [cluster1: spmd: spm.ntpd.process.exit:error]: The ntpd with
ID 50237 exited as a result of normal exit (20). This server will attempt to restart.
Fri Sep 21 06:38:52 CEST [cluster1: spmd: spm.ntpd.process.exit:error]: Call home for
EXITS THRESHOLD OF A PROCESS MANAGED BY SPM IS REACHED
```

A customer reports that their system recently began logging an error.

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

- A. The `bcomd` application is responsible for monitoring the observed behavior.
- B. A user is attempting to restart the `ntpd` daemon.
- C. The `spmd` application failed to restart the `ntpd` daemon.
- D. The `ntpd` daemon is responsible for time services.

Correct Answer: BD

Section: (none)

Explanation



Explanation/Reference:

QUESTION 8

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.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9 End users are complaining of high latency when accessing an ONTAP cluster.

Which command helps you to determine whether there is a storage component that is contributing to this problem?

- A. `qos statistics performance show`
- B. `qos statistics latency show`
- C. `sysstat -c 30 -M 1`
- D. `wafktop show -v -cpu -I 10 -c 5-n 6`

Correct Answer: A

Section: (none)

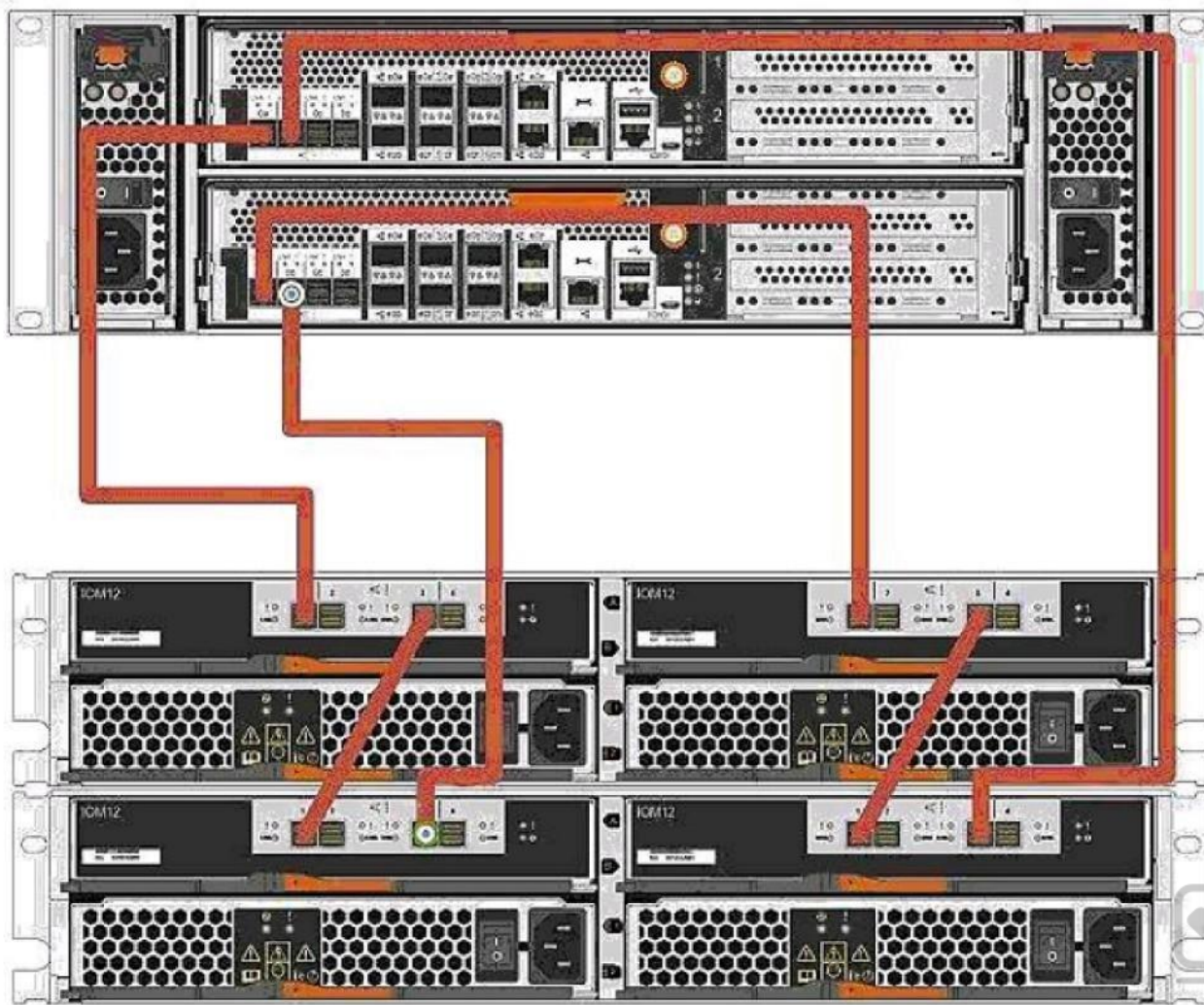
Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1031202/~how-to-troubleshoot-performance-issues-in-both-clustered-data-ontap-and-data

QUESTION 10

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.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-cmpr-930%2Fvolume_move_start.html

QUESTION 12

Click the exhibit button.




```

===== SYSCONFIG-A =====
NetApp Release 8.3: Mon Mar  9 19:20:57 PDT 2015
System ID: 333333333 (NETAPPCLUS-01); partner ID: 444444444 (NETAPPCLUS-02)
System Serial Number: 8675309 (NETAPP1CLUS-01)
System Rev: B0
System Storage Configuration: Multi-Path HA
System ACP Connectivity: Full Connectivity
All-Flash Optimized: false
Backplane Part Number: 111-01459
Backplane Rev: D1
Backplane Serial Number: 021431000055
slot 0: System Board 2.8 GHz (System Board XX B0)
      Model Name: FAS8080
slot 6: SAS Host Adapter 6c (PMC-Sierra PM8001 rev. C, SAS, <UP>)
      MFG Part Number: USI 6086-000010-07 rev. MP V4.13
      Part number: 111-00341+G1
      Serial number: ST063EBJ11V
      Date Code: 20141118
      Firmware rev: 01.11.07.00
      Base WWN: 5:00e004:000307b:50
      Phy State: [0] Enabled, 6.0 Gb/s
                  [1] Enabled, 6.0 Gb/s
                  [2] Enabled, 6.0 Gb/s
                  [3] Enabled, 6.0 Gb/s
      QSFP Vendor: Molex Inc.
      QSFP Part Number: 112-00266+A0
      QSFP Type: Optical (1490nm DFB) 2m ID:01
      QSFP Serial Number: 93AG14035F0385
      10.0 : NETAPP X425_HCBEP1T2A10 NA01 1142.3GB 520B/sect (KZK1KUTG)
      Shelf 10: DS2246 Firmware rev. IOM6 A: 0187 IOM6 B: 0191
slot 12: SAS Host Adapter 12b (PMC-Sierra PM8001 rev. C, SAS, <UP>)
      MFG Part Number: USI 6086-000010-07 rev. MP V4.13
      Part number: 111-00341+G1
      Serial number: ST063EBJ0YU
      Date Code: 20141118
      Firmware rev: 01.11.07.00
      Base WWN: 5:00e004:000307b:3c
      Phy State: [4] Enabled, 6.0 Gb/s
                  [5] Enabled, 6.0 Gb/s
                  [6] Enabled, 6.0 Gb/s
                  [7] Enabled, 6.0 Gb/s
      QSFP Vendor: Molex Inc.
      QSFP Part Number: 112-00266+A0
      QSFP Type: Optical (1490nm DFB) 2m ID:01
      QSFP Serial Number: 93AG13382F0001
      10.0 : NETAPP X425_HCBEP1T2A10 NA01 1142.3GB 520B/sect (KZK1KUTG)
      Shelf 10: DS2246 Firmware rev. IOM6 A: 0187 IOM6 B: 0191

```



```

===== ENVIRONMENT =====
Expander phy state on 12b.10 (NETAPP :DS224IOM6 SHFMS1449000979):
      Pwr      Invalid Disprt Loss  Phy  CRC  Phy
      Pwr Ccl Rsv Rls DWord Error Sync Reset Error Change SATA
PHY/BAY STATE      ON  Cnt Cnt Cnt Count Count Count Prob Cnt Cnt Affiliation
-----
0/P0:0 6.0 Gb/s    --- --- --- 0      0      0      0      0      45  -----
1/P0:1 6.0 Gb/s    --- --- --- 0      0      0      0      0      45  -----
2/P0:2 6.0 Gb/s    --- --- --- 0      0      0      0      0      45  -----
3/P0:3 6.0 Gb/s    --- --- --- 0      0      0      0      0      45  -----
4/P1:0 6.0 Gb/s    --- --- --- 0      0      0      0      0      2   -----
5/P1:1 6.0 Gb/s    --- --- --- 0      0      0      0      0      2   -----
6/P1:2 6.0 Gb/s    --- --- --- 0      0      0      0      0      2   -----
7/P1:3 6.0 Gb/s    --- --- --- 0      0      0      0      0      2   -----

```



===== SYSCONFIG-A =====

```

NetApp Release 8.3: Mon Mar  9 19:20:57 PDT 2015
System ID: 44444444 (NETAPPCLUS-02); partner ID: 333333333 (NETAPP1CLUS-01)
System Serial Number: 9035768 (NETAPP1CLUS-02)
System Rev: B0
System Storage Configuration: Multi-Path HA
System ACP Connectivity: Partial Connectivity
All-Flash Optimized: false
Backplane Part Number: 111-01459
Backplane Rev: D1
Backplane Serial Number: 021432003770
slot 0: System Board 2.8 GHz (System Board XX B0)
      Model Name:      FAS8080
slot 6: SAS Host Adapter 6c (PMC-Sierra PM8001 rev. C, SAS, <UP>)
  MFG Part Number:  USI 6086-000010-07 rev. MP V4.13
  Part number:      111-00341+G1
  Serial number:     ST063EBJ07F
  Date Code:         20141118
  Firmware rev:      01.11.07.00
  Base WWN:          5:00e004:000307b:f0
  Phy State:         [0] Enabled, 6.0 Gb/s
                    [1] Enabled, 6.0 Gb/s
                    [2] Enabled, 6.0 Gb/s
                    [3] Enabled, 6.0 Gb/s
  QSFP Vendor:       Molex Inc.
  QSFP Part Number:  112-00268+A0
  QSFP Type:         Optical (1490nm DFB) 5m ID:01
  QSFP Serial Number: 93AG14476F0081
      10.0 : NETAPP  X425_HCBEP1T2A10 NA01 1142.3GB 520B/sect (K2K1KUTG)
Shelf 10: DS2246 Firmware rev. IOM6 A: 0187 IOM6 B: 0191
slot 12: SAS Host Adapter 12b (PMC-Sierra PM8001 rev. C, SAS, <UP>)
  MFG Part Number:  USI 6086-000010-07 rev. MP V4.13
  Part number:      111-00341+G1
  Serial number:     ST063EBJ0DH
  Date Code:         20141118
  Firmware rev:      01.11.07.00
  Base WWN:          5:00e004:000307b:ac
  Phy State:         [4] Enabled, Rate unknown
                    [5] Enabled, Rate unknown
                    [6] Enabled, 6.0 Gb/s
                    [7] Enabled, Rate unknown
  QSFP Vendor:       Molex Inc.
  QSFP Part Number:  112-00268+A0
  QSFP Type:         Optical (1490nm DFB) 5m ID:01
  QSFP Serial Number: 93AG14476F0137
      10.0 : NETAPP  X425_HCBEP1T2A10 NA01 1142.3GB 520B/sect (K2K1KUTG)
Shelf 10: DS2246 Firmware rev. IOM6 A: 0187 IOM6 B: 0191

```



===== ENVIRONMENT =====

```

Expander phy state on 12b.10 (NETAPP :DS224IOM6 SHFMS1449000979):
      Pwr      Invalid Disprt Loss  Phy  CRC  Phy
      Pwr Ccl Rsv Rls DWord  Error  Sync  Reset  Error  Change SATA
PHY/BAY STATE      ON  Cnt Cnt Cnt Count  Count  Count  Prob  Cnt  Cnt  Affiliation
-----
0/P0:0 Disabled
1/P0:1 Disabled
2/P0:2 6.0 Gb/s    --- --- --- 0    0    0    0    0    39  -----
3/P0:3 Disabled
4/P1:0 6.0 Gb/s    --- --- --- 0    0    0    0    0    2   -----
5/P1:1 6.0 Gb/s    --- --- --- 0    0    0    0    0    2   -----
6/P1:2 6.0 Gb/s    --- --- --- 0    0    0    0    0    2   -----
7/P1:3 6.0 Gb/s    --- --- --- 0    0    0    0    0    2   -----

```

You are troubleshooting a system in which the customer reports that aggregates on Stack 6c/12b are having slow response times from system NETAPP1CLUS-02. Referring to the exhibit, which two statements are correct? (Choose two.)

- A. The aggregates have only one PHY running at six gigabits per second on 6c.
- B. PHY 2 is running at six gigabits per second; on system NETAPP1CLUS-02, reseal IOM6 Module A on Shelf 10.
- C. The shelf module firmware is downrev; on system NETAPP1CLUS-02, replace IOM6 Module A on Shelf 10.
- D. The aggregates have only PHY at six gigabits per second on 12b.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13 What is a major difference between NFSv3 and NFSv4.x?

- A. NFSv4.x is stateful, and NFSv3 is stateless.
- B. NFSv4.x requires an auxiliary protocol for status monitoring, and NFSv3 does not.
- C. NFSv4.x is stateless, and NFSv3 is stateful.
- D. NFSv4.x requires an auxiliary protocol for mounting, and NFSv3 does not.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://whyistheinternetbroken.wordpress.com/tag/nfsv4-1/>



QUESTION 14 A customer is attempting to move from NFSv3 to NFSv4.x and reports that all attempts to mount using NFSv3 continue to be successful, however, all of their NFSv4.x mount attempts fail with an “access denied” error. Which two statements would cause this error? (Choose two.)

- A. The NFS server does not have NFSv4 enabled.
- B. The SVM's root volume allows execute access for all users.
- C. The export policy applied to the data volume does not allow clients to access it using NFSv4.
- D. The export policy applied to the SVM's root volume does not allow the NFSv4 clients to access it.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

In a 4-node cluster, nodes 1 and 2 are an HA pair, and nodes 3 and 4 are an HA pair. The following error appears in the log.

```
12/15/2018 15:48:47 node-2          CRITICAL      clam.node.oog: Node (name=node- 2, ID= 1001) is out of "CLAM quorum" (reason =quorum update).
```

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

- A. All LUNs are offline in the cluster.
- B. All LUNs are online in the cluster.
- C. Node 1 takes over node 2. D. Node 2 takes over node 1.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Click the exhibit button.

```
ONTAP_CLUSTER::> vserver cifs create -cifs-server svm1 -domain example.com -ou OU=Secure
```

In order to create an Active Directory machine account for the CIFS server, you must supply the name and password of a Windows account with sufficient privileges to add computers to the "OU=Secure" container within the "EXAMPLE.COM" domain.

Enter the user name: administrator

Enter the password:

```
Error: Machine account creation procedure failed
[ 61] Loaded the preliminary configuration.
[ 64] Successfully connected to ip 10.216.29.40, port 88 using
      TCP
[ 71] Requested service not found in Active Directory
      (KRB5KDC_ERR_S_PRINCIPAL_UNKNOWN)
[ 71] Failed to initiate Kerberos authentication. Trying NTLM.
[ 72] Successfully connected to ip 10.216.29.40, port 389 using
      TCP
**[ 77] FAILURE: Specified OU 'OU=Secure' does not exist in
**      EXAMPLE.COM
```

Error: command failed: Failed to create the Active Directory machine account "SVM1". Reason:
SecD Error: ou not found.

The storage administrator for the company example.com is attempting to join an SVM to their Active Directory as SVM1. The computer account must also be joined to the Secure organizational unit. Attempts to perform this action using the CLI fail with the error message shown in the exhibit.

What is the reason for this error?

- A. The requested OU Secure does not exist in the Active Directory and must be created by the Active Directory administrator.
- B. The requested OU Secure has incorrect principal and errored with KRB5KDC_ERR_S_PRINCIPAL_UNKNOWN.
- C. The administrator account password used in `vserver cifs create` was not entered correctly.
- D. The syntax is incorrect; it should be `vserver cifs create -cifs-server svm1 -domain example.com -ou ou=Secure, dc=example, dc=com`.

Correct Answer: B

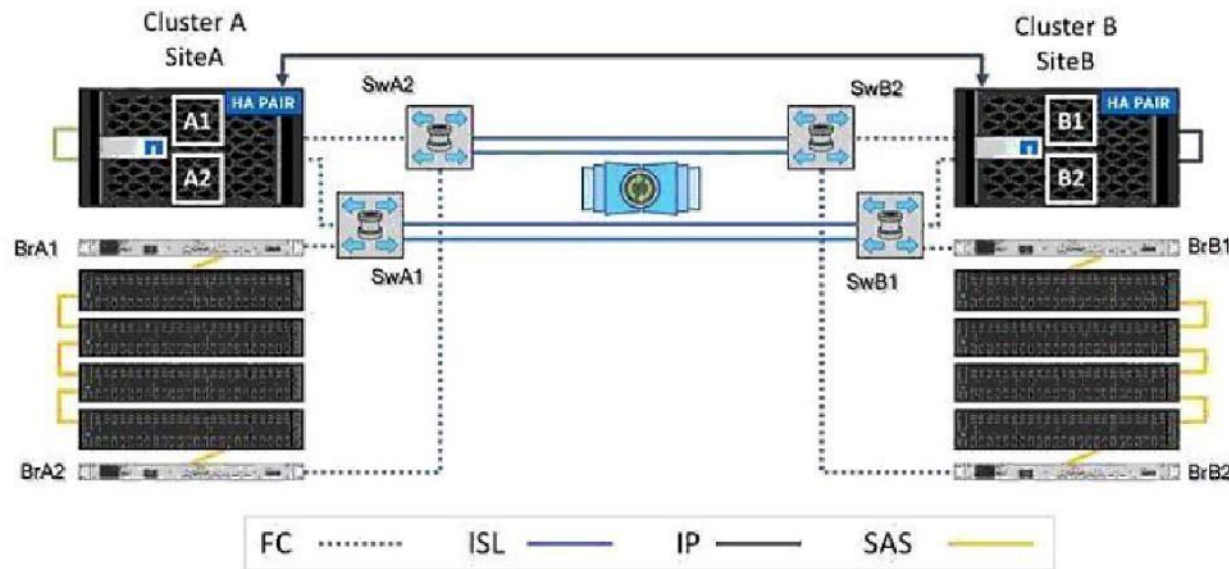
Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

Click the exhibit button.



You are investigating an AutoSupport `Disk Redundancy Failed` alert. Cluster A lost connectivity to storage bridge BrB1, while cluster B lost connectivity to storage bridge BrA1.

Referring to the exhibit, which three components need investigation? (Choose three.)

- A. storage bridges BrB1
- B. FC switch SwA1
- C. FC switch SwB1
- D. FC switch SwA2
- E. ISL cables

Correct Answer: BCE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Two weeks ago, your customer experienced a data outage, which caused their MCC to switch over. When the power was restored, they found that 14 disks over three RAID groups had failed, which caused two data aggregates to lose their mirror plexes.

In this situation, before you perform a switchback, which three actions should be taken? (Choose three.)

- A. Delete the failed plexes.
- B. Initiate the aggregate healing phases.
- C. Adjust bridge configuration for the replaced disks.
- D. Mirror the unmirrored aggregates
- E. Assign all disks on the remote site to the surviving nodes.

Correct Answer: BCD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

After you replaced the motherboard, the node stopped in the “waiting for the cluster application to come online” state.

Which two actions should you perform to troubleshoot this problem? (Choose two.)

- A. Check the status of the HA with the `interconnect-up` field of `storage failover show` command.
- B. Verify the setting of the cluster interconnect switch.
- C. Verify that the physical links on the cluster ports are up.
- D. Check the status of the cluster with the `cluster ring show` command.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1016612/~/_node-stuck-in-waiting-for-cluster-applications-to-come-online-state-

QUESTION 20

For restore purposes, a storage administrator on an ONTAP system created a FlexClone of a volume that contains a LUN from a specific snapshot. This LUN cannot be seen by a Windows client after a disk rescan is performed by using Disk Management.

In this scenario, which statement is correct?

- A. The cloned LUN must be brought online.
- B. The cloned LUN needs to be mapped to an initiator group.
- C. The cloned volume must be split from the source volume before the LUN can be used.
- D. The cloned LUN must be renamed to a different name than the name of the source LUN.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 21

Click the exhibit button.

```
cl01::metrocluster interconnect> adapter show
```

Node	Adapter name	Adapter Type	Link Status	IP Address	Port Number
cl01-01	fcvi_device_0	FC-VI	Up	5.0.0.5	1a
cl01-01	fcvi_device_1	FC-VI	Up	6.0.0.6	1b
cl01-01	mlx4_0	IB	Down	192.0.5.56	ib0a
cl01-01	mlx4_0	IB	Down	192.0.5.57	ib0b

4 entries were displayed

Your customer is calling about their MetroCluster environment. They have provided you with the output of the `metrocluster interconnectadapter show` command.

Referring to the exhibit, which statement is correct?

- A. For all MetroCluster configurations, this is expected output.
- B. The InfiniBand cables should be connected in this configuration.
- C. The InfiniBand interconnect is not used in MetroCluster.
- D. This is a 2-node MetroCluster.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

When you issue a `volume clone create` command, which entity in WAFL is copied?

- A. the `vol_info` block
- B. the `buftree`
- C. the data block
- D. the inode file

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

A customer called you after a failure in their Microsoft Hyper-V environment on the “SVM1” SVM. The customer wants to enable nondisruptive operations (NDO) to prevent future failures. In

this scenario, which two actions must be performed? (Choose two.)

- A. Verify that the `continuously-available` option is set on the CIFS share.
- B. Verify that SMB2 is enabled.
- C. Verify that SMB3 is enabled.
- D. Verify that the `branchcache` option is set on the CIFS share.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cifs-hypv-sql%2FGUID-7E051720-3F5B-49ED-AB6B-C2DBCFD8853E.html>

QUESTION 24

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.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.netapp.com/platstor/index.jsp?topic=%2Fcom.netapp.doc.hw-ds-sas3-service%2FGUID-74DE67F4-BDA9-4A70-9551-076F21AC592A.html>

QUESTION 25 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 `wafliro` 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 `WAFI_check` command on the inconsistent data aggregate.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

Click the exhibit button.

```
netapp-cluster::> statistics volume show

netapp-cluster : 11/2/2018 13:34:36

  Volume      Vserver  *Total  Read  Write  Other  Read  Write  Latency
      -----  -----  ----  ----  ----  ----  ----  ----  -----
nfs_volume    SVM04      2077    0     49     45    6567  2197980  194
```

A customer is reporting that numbers in the `statistics volume show` command output appear to be incorrect.

Referring to the exhibit, which statement is correct?

- A. The problem is due to a difference in operation size.
- B. Perfstat should be used to explain the behavior.
- C. There are operation types that are not listed in the output.
- D. A case with NetApp should be raised to find the root cause.



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

You are investigating a CIFS issue at a customer site, but it is unclear which SMB version is being used between the client and the server. The customer has provided you with a packet trace output.

In this scenario, which packet exchange contains information to indicate which SMB version was agreed upon by the client and the server?

- A. Ioctl Request FSCTL_DFS_GET_REFERRALS
Ioctl Response FSCTL_DFS_GET_REFERRALS
- B. Session Setup Request
Session Setup Response
- C. Negotiate Protocol Request
Negotiate Protocol Response
- D. Tree Connect Request Tree
Tree Connect Request Response

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Click the exhibit button.

The server supports Continuous Availability (persistent handles) and the request to create the handle succeeded. However, the server did not grant persistence. You should verify that the Resume Key Filter is running on the server and is attached to the target volume.

A customer reports that when they are failing over Hyper-V VMs, the process fails, and the server reports an error that indicates that there is something wrong with the storage. Referring to the exhibit, which three actions would be required in ONTAP to solve this problem? (Choose three.)

- A. Verify that the `-symlink-properties` parameter is enabled on the share.
- B. Verify that the `access-based-enumeration` share parameter is configured.
- C. Verify that the `continuously -available` share parameter is configured.
- D. Verify that `-offline-files` parameter is set to `manual` on the share.
- E. Verify that the `oplocks` share property is configured.

Correct Answer: BCE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

Click the exhibit button.

```
cluster1::> aggr show
```

Info: Node cluster1-02 that hosts aggregate aggr0_cluster1_02 is offline
Node cluster1-02 that hosts aggregate aggr2 is offline



Aggregate	Size	Available	Used%	State	#Vols	Nodes	RAID status
aggr0_cluster1_01	24.30GB	1.18GB	95%	online	1	cluster1-01	raid_dp, normal
aggr0_cluster1_02	-	-	-	unknown	-	cluster1_02	-
aggr1	255.8GB	1.18GB	99%	online	7	cluster1_01	raid_dp, normal
aggr2	-	-	-	unknown	-	cluster1_02	-

4 entries were displayed.

```
cluster1::> storage failover show
```

Node	Partner	Takeover Possible	State Description
cluster1_01	cluster1_02	true	Connected to cluster1_02
cluster1_02	cluster1_01	true	Connected to cluster1_01

2 entries were displayed.

You execute a few commands and many fail, as shown in the exhibit.

What could cause the error?

- A. The `mgwd` user space process on `cluster1-02` failed.
- B. The aggregates were manually brought offline.
- C. The `cluster-02` node is down.

D. The bcomd user space process on `cluster1-02` failed.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

Click the exhibit button.

```
Cluster::> vserver services name-service ns-switch show -vserver vs1
```

Vserver	Database	Source	Order
vs1	hosts	files,	dns
vs1	group	files,	ldap
vs1	passwd	files,	ldap
vs1	netgroup	files	
vs1	namemap	files	

5 entries were displayed.

```
Cluster::> vserver services name-service ldap show
```

Vserver	Client Configuration
vs1	ad

A customer has the ns-switch shown in the exhibit.

Which two statements are true in this scenario? (Choose two.)

- A. User names not present in the local database are looked up in LDAP.
- B. User mapping decisions are always based on the LDAP configuration.
- C. Host names are always resolved using the configured DNS server.
- D. Groups can be looked up both in the local database and in LDAP.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:



QUESTION 33 A non-maskable interrupt event occurs. The system panics and then reboots.

In this scenario, what would have caused the panic?

- A. a secd process
- B. a watchdog timer
- C. an ICMP blackhole detector
- D. a volume location distributed database

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1001379/~/faq%3A-handling-watchdog-resets-%28wdr%29-

QUESTION 34

A customer reports that one their SVMs has two default gateways. The customer wants to know whether this behavior is expected or if one of gateways should be deleted.

In this scenario, what do you tell the customer?

- A. The configuration is acceptable if the customer configures different metrics on all defaults routes.
- B. The configuration is acceptable only if both default gateways are in the same subnet.
- C. This situation is a misconfiguration, and the customer should delete one of the default gateways because there can be only gateway for each SVM.

D. The configuration is acceptable. The customer can achieve load balancing between the default gateways by setting the same metric on all default routes.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

You migrated from a FAS3250 system to a new A200 system. After the migration, you notice that data compaction fails to be enabled on the migrated volumes.

In this scenario, which statement is correct?

- A. You need to schedule background deduplication on all volumes.
- B. You need a license to have full efficiency on AFF systems.
- C. Data compaction is not supported on the A200 system.
- D. The volumes are thick-provisioned.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

Click the exhibit button.

```

disk          ut%  xfers  ureads--chain-usecs  writes--chain-usecs  creads-chain-usecs
greads--chain-usecs  gwrites-chain-usecs
/Aggr_SATA1/plex0/rg0:
0a.11.19      14  23.05   0.00   ....   . 11.11  62.42  199  11.94  58.82  156  0.00   ....   . 0.00   ....   .
0a.13.20      14  23.35   0.00   ....   . 11.40  60.89  213  11.96  58.81  160  0.00   ....   . 0.00   ....   .
0a.10.20      21  51.49  21.46   5.32 1781  9.13  28.54  470  20.91  12.12  725  0.00   ....   . 0.00   ....   .
0a.12.19      19  48.67  20.80   5.59 1644  8.34  27.18  492  19.53  12.45  675  0.00   ....   . 0.00   ....   .
0a.11.20      19  50.59  22.74   5.00 1597  8.26  27.94  456  19.59  11.65  668  0.00   ....   . 0.00   ....   .
0a.13.21      21  52.94  24.38   4.73 1912  8.57  27.95  476  19.99  11.76  737  0.00   ....   . 0.00   ....   .
0a.10.21      20  48.75  19.32   5.76 1568  8.71  28.67  429  20.72  12.00  662  0.00   ....   . 0.00   ....   .
0a.12.20      21  49.45  20.28   5.49 1702  9.02  28.07  492  20.15  12.32  686  0.00   ....   . 0.00   ....   .
0a.11.21      80  49.55  21.07   5.48 9799  8.53  28.23  932  19.95  11.61  982  0.00   ....   . 0.00   ....   .
0a.13.22      20  48.86  20.15   5.59 1734  8.79  28.43  455  19.91  12.17  736  0.00   ....   . 0.00   ....   .
0a.10.22      20  51.13  22.84   5.15 1788  8.69  27.24  469  19.59  11.63  712  0.00   ....   . 0.00   ....   .
0a.12.21      20  49.39  20.14   5.36 1640  8.94  30.22  438  20.32  12.48  669  0.00   ....   . 0.00   ....   .
0a.11.22      20  50.18  21.62   5.53 1664  8.55  28.12  480  20.01  11.75  730  0.00   ....   . 0.00   ....   .
0a.13.23      21  55.77  26.58   4.78 1778  8.95  28.90  486  20.23  12.81  663  0.00   ....   . 0.00   ....   .
0a.10.23      20  48.96  20.19   5.92 1750  8.78  28.77  454  19.99  11.96  686  0.00   ....   . 0.00   ....   .
0a.12.22      20  48.46  19.95   5.59 1755  8.71  28.92  481  19.80  12.33  668  0.00   ....   . 0.00   ....   .
0a.11.23      20  48.83  20.89   5.67 1771  8.44  29.17  437  19.50  12.00  704  0.00   ....   . 0.00   ....   .

```

Your customer has severe latency on one of their SATA aggregates. You run the `statit -b` and `statit -e` commands to obtain detailed disk statistics.

Referring to the output shown in the exhibit, which disk would be the problem?

- A. 0a.11.19
- B. 0a.11.21
- C. 0a.13.21
- D. 0a.11.23

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 38

Click the exhibit button.

```
cluster01::> broadcast-doamin show -bdroadcast-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-interop` to prevent the LIFs from failing over to the e0M ports.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39 You want to determine which SMB versions that a CIFS server can use when communicating with external servers. Which two CIFS server settings should be reviewed to accomplish this task? (Choose two.)

- A. smb2-enabled
- B. smb1-enabled-for-dc-connections
- C. smb2-enabled-for-dc-connections
- D. smb1-enabled

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

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

QUESTION 40

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.



Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1006170

QUESTION 41

Click the exhibit button.

```
*****
**  SYSTEM MESSAGES  **
*****
```

```
The root volume is different than one previously used by this node. This node is not
fully operational. Contact support personnel for the root volume recovery procedures.
```

When you log in to a node, a warning is displayed as shown in the exhibit.

Which statement is correct in this scenario?

- A. The node root volume was moved to a new aggregate.
- B. The partner still hosts the CFO aggregate for the node.
- C. One or more RDB db files are damaged due to an internal software error.

D. The node cannot communicate with the rest of the nodes in the cluster.

Correct Answer: D

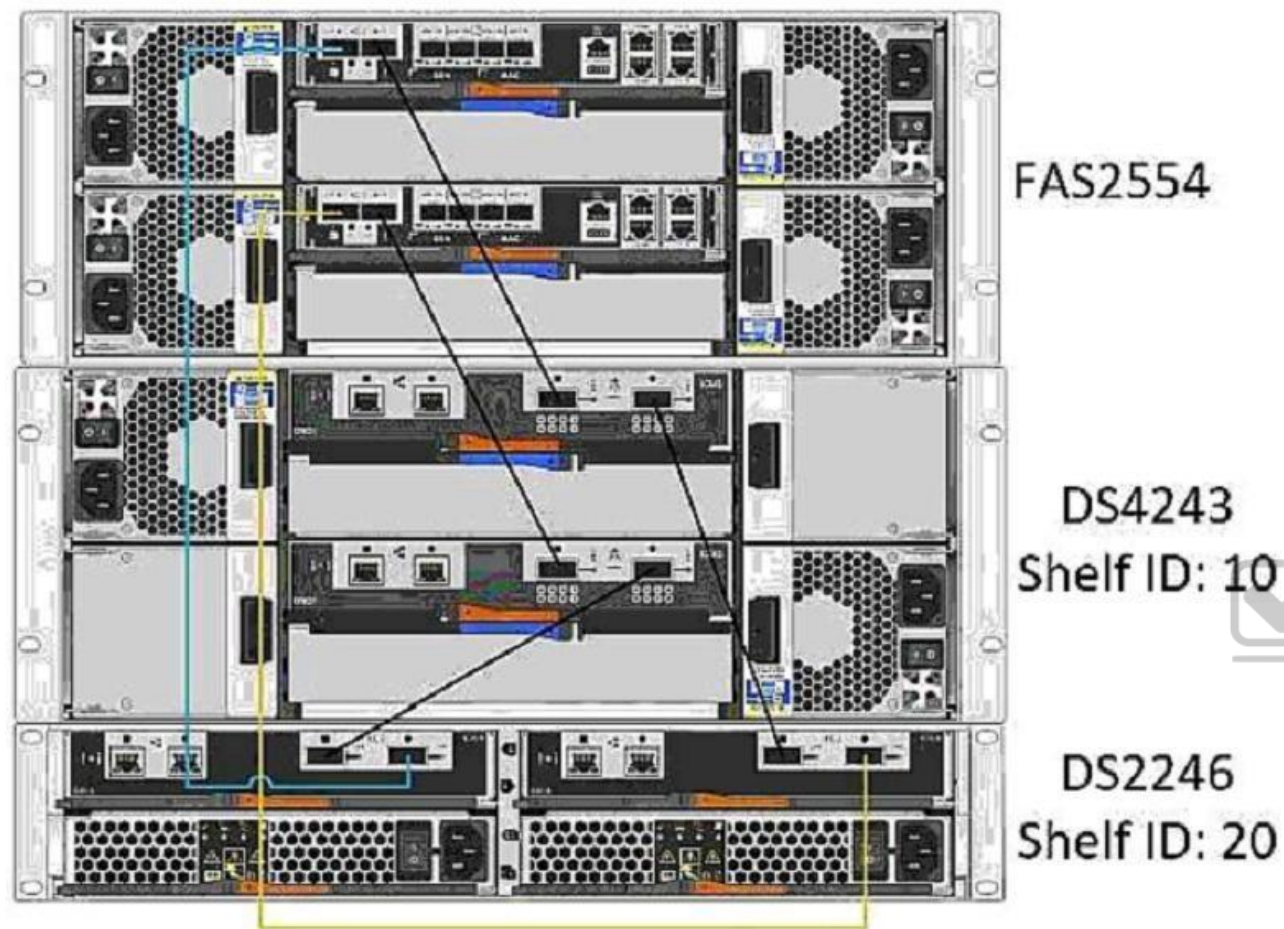
Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

Click the exhibit button.



Your customer reports that their FAS2554A system reports multi-path HA when running the `sysconfig` command. However, Config Advisor reports an error about incorrect cabling. What are the two reasons for the messages? (Choose two.)

- A. Shelves 10 and 20 have different IOM modules and must be in separate stacks.
- B. The FAS2554 system is cabled incorrectly to shelf ID 20.
- C. The DS2246 shelf is wrong; the shelf ID must be 11.
- D. Disk shelves 10 and 20 are cabled incorrectly to each other.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43 A field support engineer has just replaced the IOXM on NODE2 on a FAS8080 running ONTAP 9.1. After the replacement, the customer is unable to perform a giveback because the interconnect is down.

In this scenario, which statement is correct?

- A. Verify that there cross-links between the interconnects.
- B. Verify that the installed FC-VI cards are configured properly.
- C. Verify that the interconnect cables on the motherboard are connected correctly.
- D. Verify that the interconnect cables on the IOXM are connected correctly.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

A customer reports that OnCommand Performance Manager shows that the workload on node-02 in a 4-node cluster has increased to a level that is higher than the threshold. The customer wants to avoid this issue becoming a performance problem.

Which two actions would result in achieving this goal? (Choose two.)

- A. Use the `volume move` command to move one or more volumes to another aggregate that is owned by another node that is less utilized.
- B. Use the `storage aggregate relocation` command to offload an aggregate to its partner.
- C. Use the `storage aggregate scrub` command to verify the parity on the busy aggregates.
- D. Physically move the shelf to another node that is less utilized.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:



QUESTION 45

Click the exhibit button.

```

...
slot 1: FC Host Adapter 1a (QLogic 2532 rev. 2, N-port, <UP>)

san31:5.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108390
san31:6.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108363
san51:5.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108406
san51:6.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108893
san51:5.shelf10    : DS2246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
san51:6.shelf31    : DS4246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
san31:5.shelf0     : DS2246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
san31:6.shelf20    : DS4246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
slot 1: FC Host Adapter 1b (QLogic 2532 rev. 2, N-port, <UP>)

...

san32:5.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N107744
san52:5.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108403
san52:6.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108903
san52:5.shelf10    : DS2246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
san52:6.shelf31    : DS4246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
san32:5.shelf0     : DS2246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
slot 1: FC Host Adapter 1c (QLogic 2532 rev. 2, N-port, <UP>)

...

san31:5.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108390
san31:6.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108363
san51:5.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108406
san51:6.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108893
san51:5.shelf10    : DS2246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
san51:6.shelf31    : DS4246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
san31:5.shelf0     : DS2246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
san31:6.shelf20    : DS4246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
slot 1: FC Host Adapter 1d (QLogic 2532 rev. 2, N-port, <UP>)

...

san32:5.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N107744
san52:5.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108403
san52:6.126L0      : ATTO      FibreBridge6500N 1.50  FB6500N108903
san52:5.shelf10    : DS2246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
san52:6.shelf31    : DS4246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173
san32:5.shelf0     : DS2246    Firmware rev. IOM6 A: 0173  IOM6 B: 0173

```

A customer's system reported several errors. There was no disruption, but the customer is concerned about the system's health.

Referring to the exhibit, which statement is true?

- A. One of the switches has failed.
- B. One of the IOM modules on shelf 20 has failed.
- C. Storage redundancy is degraded.
- D. Port 1D on the system has failed.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

You configured iSCSI multipathing on a Windows host to a 2-node ONTAP cluster so that you can attach to some LUNs. You see that the host logging in to both iSCSI LIFs in the ONTAP cluster, and you notice that the igroup is correctly set. After you open Disk Management and rescan for disks, the NetApp LUNs do not show up.

In this scenario, what should be performed to enable the LUNs to be visible to the Windows host? A.

Set up LUN mapping and try scanning again.

- B. Configure the SVM for FCP and try scanning again.
- C. Set up Selective LUN Mapping (SLM) and try scanning again.
- D. Configure the ONTAP nodes for HA and try scanning again.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47 A customer has a 2-node MetroCluster. They experienced a complete power loss at site B. The customer has lost connectivity to site B and now realizes that the DR partner at site A has not taken over the DR partner at site B. Which two actions must be performed in this scenario? (Choose two.)

- A. On the DR partner at site A, perform the process to switchover.
- B. Ensure that site B is prevented from serving data or simply powered off (nodes and disk shelves).
- C. On the DR partner at site A, perform the process to heal the data aggregates.
- D. On the DR partner at site B, perform the process to heal the root aggregate.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48 A reboot was performed by a watchdog reset on the node.

In this scenario, which statement is true?

- A. The service processor no longer responds.
- B. In case of an L1 watchdog event, determine whether a panic message was recorded.
- C. In case of an L2 watchdog event, determine whether a core was dumped.
- D. The `waf1_check` command should be executed.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1070763/~/watchdog-reset-events-cause-fas32xx-storage-systems-to-reboot-

QUESTION 49

Which statement is correct about the `waf1iron` command?

- A. The `waf1iron` command is used to correct parity inconsistencies.
- B. The `waf1iron` command is used to correct inconsistent WAFL metadata.
- C. The `waf1iron` command is used to correct WAFL i2p inconsistencies.
- D. The `waf1iron` command is used to correct inconsistent user data blocks.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1001593/~/overview-of-wafliron-

QUESTION 50

In a 4-node MetroCluster cluster, both clusters are alerting that the connection to an ATTO bridge is lost.

Which three components should be verified to determine what is causing this problem? (Choose three.)

- A. the SFPs that are connecting the ATTO bridge to the switch
- B. the dark fiber cables between sites
- C. the ATTO bridge
- D. the SFPs in the storage controllers
- E. the fiber cable that is connecting the ATTO bridge to the switch

Correct Answer: ACE

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMP1650547

QUESTION 51

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

At a customer site, the `storage failover giveback` command fails when giving back the root aggregate. What

would be two reasons for this failure? (Choose two.)

- A. There are active NFS connections.
- B. There are failed disks.
- C. The HA interconnect is not operational.
- D. There are active SIS operations running.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://library.netapp.com/ecmdocs/ECMP1196905/html/GUID-E37EC334-C009-4A6A-82A8-BE383D6D5567.html>

QUESTION 53 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.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1070703/~/autosupport-message%3A-sis.changelog.full%3Awarning-

QUESTION 54

A customer reports that a LUN is offline because the volume is out of space even though the `space-reserve` parameter is configured to `enabled` on the LUN. Which

two statements are correct in this scenario? (Choose two.)

- A. The containing aggregate is thin-provisioned.
- B. The fractional reserve is set to 0%.
- C. Deduplication is inflating the LUN when it is brought online.
- D. The volume has snapshots.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:



QUESTION 55

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

```

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.

Correct Answer:

C

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1001512/~/-/what-is-the-impact-of-a-shares-symlink-settings-and-dfs-advertisement-in

QUESTION 56 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

Correct Answer:

C

Section: (none)

Explanation



Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1031391/~/-/how-to-collect-data-for-an-rca-of-a-san-event-that-occurred-in-the-past-

QUESTION 57

A customer reports that copying data over iSCSI attached LUNs is taking significantly longer than usual. The customer asks you to help to identify the root cause of this problem.

Which two `perfstat` sections would you use to accomplish this task? (Choose two.)

- A. `stats lun`
- B. `lun stats -vserver`
- C. `statit`
- D. `stats volume`

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

Click the exhibit button.

disk	ut%	xfers	ureads--chain-usecs	writes--chain-usecs	cpreads-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	40.09	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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1015132/~/%3Aboth-sas-connections-from-one-controller-go-to-the-same

QUESTION 60

Click the exhibit button.



www.vceplus.com - Free Questions & Answers - Online Courses - Convert VCE to PDF - VCEplus.com

A storage administrator reports that when they enabled Vscan, they began receiving reports of CIFS users having very slow access to all their files. The storage administrator recovered from the issue by disabling Vscan on their SVM. The storage administrator was able to collect perfstat output during the time of the reported slow access, as shown in the exhibit.

In this situation, what is the problem?

- A. The problem is on the SVM, as shown in the scan_latency output.
- B. Vscan server 192.168.100.144 was slower than Vscan server 10.23.23.54 in completing Vscan requests.
- C. Vscan server 10.23.23.54 was slower than Vscan server 192.168.100.144 in completing Vscan requests.
- D. The problem was with both Vscan servers 192.168.100.144 and 10.23.23.54.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

