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NCSE

Questions & Answers

(Demo Version - Limited Content)

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Version: 4.0

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.

Answer: A

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.

Answer: C,D

Question: 3

When does ONTAP 9.5 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

Answer: D

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.

Answer: B

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.

Answer: A

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	SSD util	OTHER	FCP	iSCSI	FCP kB/s in	FCP 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%	7	0	0	0	0	0	0	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																
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																
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																
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																
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%	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																
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																
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%	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																
1%	25	9	0	41	20	16	16	24	0	0	0	0	31s	99%	0%	-									
0%	0%	7	0	0	0	0	0	0	0																
1%	75	0	0	75	30	25	4	4	0	0	0	0	31s	100%	0%	-									
0%	0%	0	0	0	0	0	0	0	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.

Answer: C,D

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.

Answer: B,D

Question: 8

Click the exhibit button.

```
cluster1::> -vserver VSEXX -igroup esx8
igroup show
  Vserver Name: VSESX
   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 gas 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: A,B

Question: 9

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

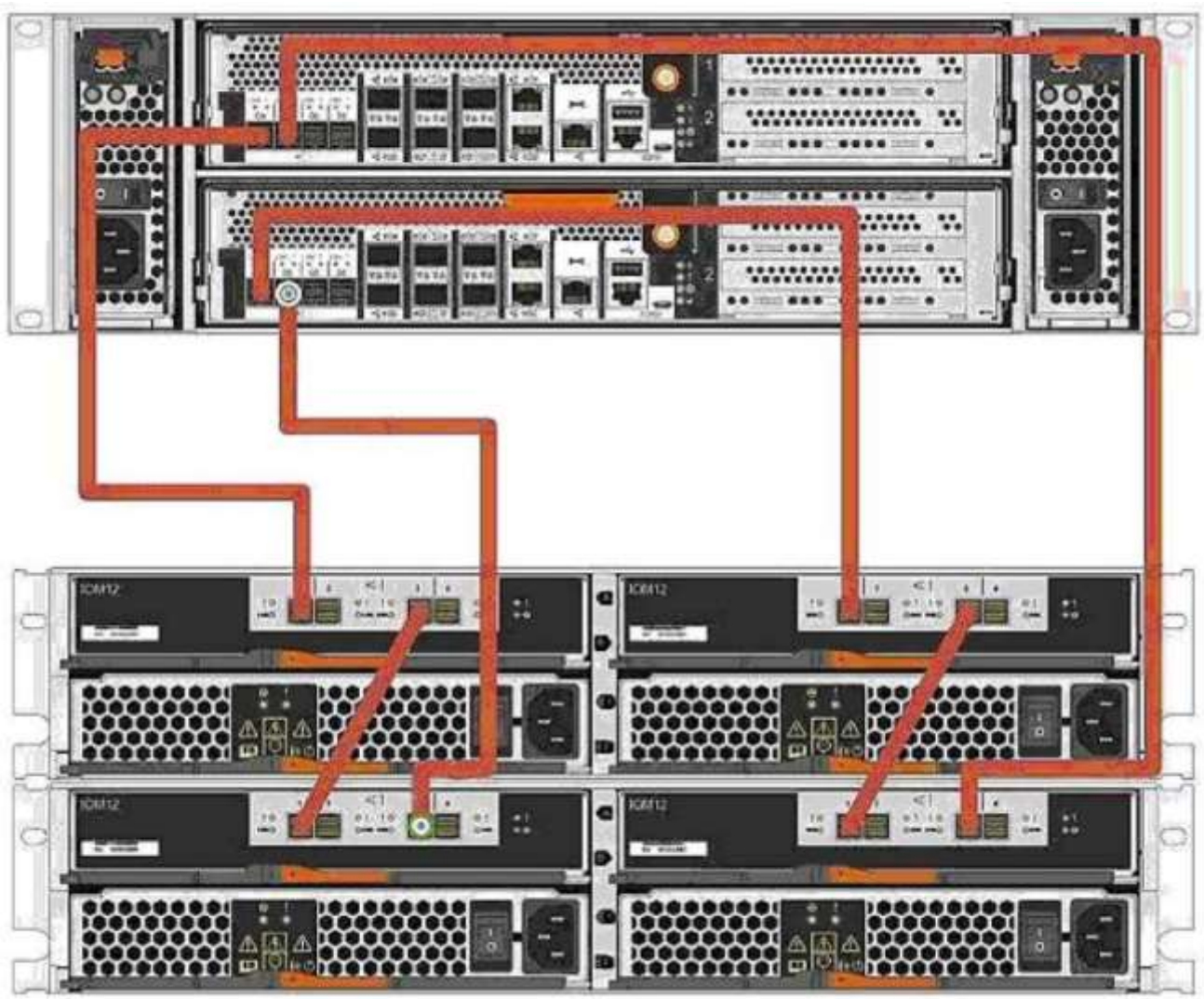
Which command helps you to determine whether there is a storage component that is contributing to this problem?

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

Answer: A

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.

Answer: A,B

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.

Answer: A

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: 44444444 (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          Invald 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 (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:       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 (KZK1KUTG)
    Shelf 10: DS2246  Firmware rev. IOM6 A: 0187  IOM6 B: 0191

===== ENVIRONMENT =====
Expander phy state on 12b.10 (NETAPP  :DS224IOM6        SHFMS1449000979):
                             Pwr          Invald 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 tomes 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, reseat 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.

Answer: A,C

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.

Answer: A

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.

Answer: B,C

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-2CRITICALclam.node.ooq: 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.

Answer: A,C

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