

NS0-193.VCEplus.premium.exam.60q

Number: NS0-193  
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](https://twitter.com/VCE_Plus)

**NS0-193**

**NetApp Certified Support Engineer**



## Exam A

### QUESTION 1

Click the Exhibit button.

Policy Group	Latency	Network	Cluster	Data Disk	QoS	NVRAM	Cloud
-total-	30.74ms	10.02ms	20.39ms	327.00us	0ms	0ms	0ms
vol0	36.91ms	17.22ms	19.09ms	603.00us	0ms	0ms	0ms
vol1	40.85ms	17.56ms	23.10ms	191.00us	0ms	0ms	0ms
vol2	22.87ms	4.05ms	18.63ms	190.00us	0ms	0ms	0ms

Response times for NFS clients have increased recently. There have been no changes to the data network.

Referring to the exhibit, what would cause the increased response times?

- A. Inter-Switch Link (ISL) failure
- B. CPU spike
- C. disk latency
- D. QoS policy limit

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 2** You have configured an ONTAP system. You want to verify that AutoSupport is being delivered to NetApp.

In this scenario, what are two ways to accomplish this task? (Choose two.)

- A. Review AutoSupport messages in Active IQ.
- B. Review the AutoSupport section in OnCommand Unified Manager.
- C. Review the AutoSupport section in OnCommand System Manager.
- D. Use the `system node autosupport history show` command.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 3** What are two valid storage layouts when using the SnapCenter Plug-in for Microsoft SQL Server? (Choose two.)

- A. storing multiple LUNs in a volume
- B. storing a single database per LUN
- C. storing multiple databases per LUN
- D. storing database files on a LUN that contains the log directory

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ocsc-43/index.jsp?topic=%2Fcom.netapp.doc.ocsc-dpg-mssql%2FGUID-F15BFFC5-5DB5-4D56-AD52-ADD65331EED9.html>

**QUESTION 4** An administrator wants to perform an Automated Nondisruptive Upgrade (ANDU) on a 6-node cluster.

While monitoring the upgrade, what does the administrator observe?

- A. The new image installs on all nodes in the cluster and then reboots each HA pair in sequence.
- B. The new image installs and reboots on one node of each HA pair and then repeats on the partner.
- C. The new image installs one node at a time and reboots each node one at a time.
- D. The new image installs on all nodes and then reboots one node at a time.

**Correct Answer: B**

**Section: (none)**

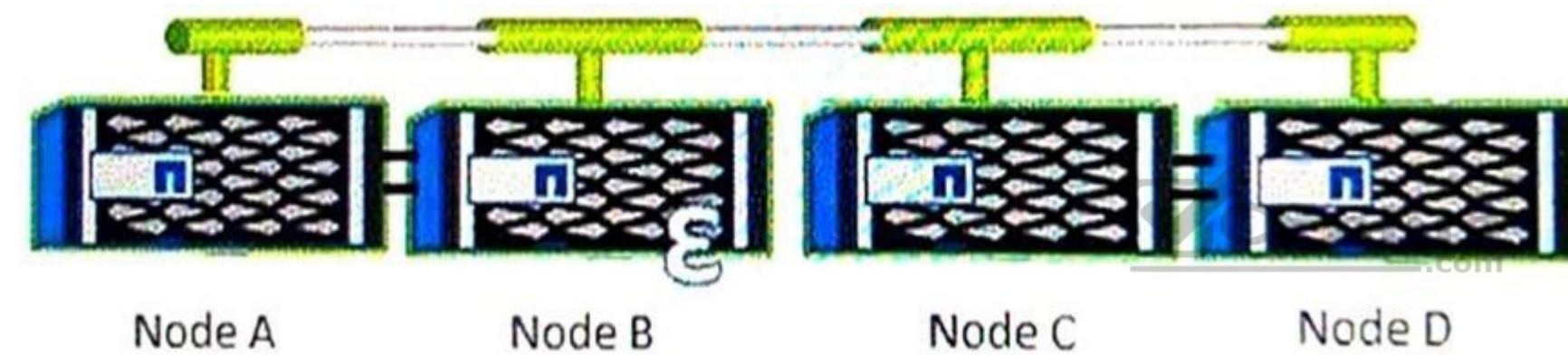
**Explanation**

**Explanation/Reference:**

Reference: <https://library.netapp.com/ecmdocs/ECMP1636041/html/GUID-C0C171AD-5A9D-47DD-96BA-B009E76542ED.html>

**QUESTION 5**

Click the Exhibit button.



Referring to the exhibit, if Node B loses power, what are two nodes where epsilon would move? (Choose two.)

- A. Node D
- B. Node B
- C. Node A
- D. Node C

**Correct Answer: CD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 6**

Click the Exhibit button.

```
cluster1::> volume show -fields junction-path,policy,security-style -vserver NFS
vserver  volume      policy    junction-path  security-style
-----  -
NFS      data01    access   /data01        unix
NFS      svm_root  default  /              unix
```

```
cluster1::> network route show -vserver NFS
There are no entries matching your query.
```

```
cluster1::> vserver export-policy rule show -vserver NFS
Vserver  Policy      Rule      Access      Client      R0
-----  -
NFS      access      1         nfs         10.10.10.0/24  sys
```

```
cluster1::> network interface show -vserver NFS
Vserver  Logical      Status      Network      Current      Current      Is
-----  -
NFS      nfs_data01   up/up       10.10.10.10/24 cluster1-01  e0d         true
```

```
cluster1::> vserver nfs show -vserver NFS
```

```

Vserver: NFS
General NFS Access: true
NFS v3: enabled
NFS v4.0: enabled
```

You created an SVM and want to mount volume “data01” from a Windows client with the 10.10.10.50 IP address over NFSv3. However, when you are trying to mount, you are receiving a “permission denied” error.

Referring to the exhibit, what caused the error?

- A. The security style must use NTFS when using Windows NFS.
- B. The export policy is missing the client IP.
- C. The root volume has the wrong export policy.
- D. The NFS service is not started.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 7

Click the Exhibit button.

```
cluster1:> vserver cifs share show -vserver CIFS
Vserver      Share      Path      Properties      Comment      ACL
-----
CIFS         HR         /HR        oplocks         -            Everyone / Full Control
            browsable
            changenotify
            show-previous-versions

1 entries were displayed.

cluster1:> volume show -fields security-style -volume HR
vserver      volume      security-style
-----
CIFS         HR          ntfs

cluster1:*> vserver cifs options show -fields is-exportpolicy-enabled
vserver      is-exportpolicy-enabled
-----
CIFS         false

cluster1:> vserver security file-directory show -vserver CIFS -path /payroll.xlsx -volume-name HR
Vserver:      CIFS
File Path:    /HR/payroll.xlsx
Security Style: ntfs
Effective Style: ntfs
ACLs:         NTFS Security Descriptor
              Control:0x8004
              Owner:BUILTIN\Administrators
              Group:BUILTIN\Administrators

DACL - ACEs
ALLOW-corp\max-0x1f01ff
ALLOW-corp\max-0x10000000-0I|CI|IO
```

The corp\eva user cannot access the payroll.xlsx file on the CIFS share that is called HR. The user is a member of the corp\Domain Users group only.

Referring to the exhibit, what is the problem?

- A. The user has no permission to access this share.
- B. The user has no NTFS permissions for that file.
- C. The security style is not set correctly.
- D. The export policy is disabled.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 8

You have a 4-node cluster. You want to ensure that a NAS data LIF can only migrate to ports that are on its home node, and its HA partner.

In this scenario, which failover policy would be configured?



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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&ved=2ahUKEwigzre8xY\\_nAhWYzzgGHVbFBg4QFjAGegQIBhAB&url=ftp%3A%2F%2Fftp.aau.edu.et%2FTraining%2FAAU-Private-Cloud%2FData\\_ONTAP%2FNetwork%2520Management%2520Guide.pdf&usg=AOvVaw0Zay5aRX7V7yB2kkmY7hAS](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&ved=2ahUKEwigzre8xY_nAhWYzzgGHVbFBg4QFjAGegQIBhAB&url=ftp%3A%2F%2Fftp.aau.edu.et%2FTraining%2FAAU-Private-Cloud%2FData_ONTAP%2FNetwork%2520Management%2520Guide.pdf&usg=AOvVaw0Zay5aRX7V7yB2kkmY7hAS)

#### QUESTION 9

Click the Exhibit button.

```
clus::> lun igroup show
Vserver      Igroup      Protocol OS Type  Initiators
-----
iSCSI-svm R740-ESXi-01 iscsi    vmware  iqn.1998-01.com.vmware:esxa
iSCSI-svm R740-ESXi-02 iscsi    vmware  iqn.1998-01.com.vmware:esxb
iSCSI-svm R740-ESXi-03 iscsi    vmware  iqn.1998-01.com.vmware:esxc
iSCSI-svm R740-ESXi-shared iscsi    vmware  iqn.1998-01.com.vmware:esxb,
                                     iqn.1998-01.com.vmware:esxa,
                                     iqn.1998-01.com.vmware:esxc

clus::> network interface show -vserver iSCSI-svm -data-protocol iscsi
Vserver      Logical      Status      Network      Current      Current Is
Interface    Admin/Oper   Address/Mask Node          Port         Home
-----
iSCSI-svm
  iscsi-133-01 up/up      192.168.133.201/24 svm-01      a0a-133 true
  iscsi-133-02 up/up      192.168.133.202/24 svm-02      a0a-133 true
  iscsi-134-01 up/up      192.168.134.201/24 svm-01      a0a-134 true
  iscsi-134-02 up/up      192.168.134.202/24 svm-02      a0a-134 true

clus::> vservers iscsi initiator show -fields vservers , tpigroup , initiator-name , igroup
Vserver      Tpgroup      Initiator
Name         Name
-----
iSCSI-svm iscsi-133-01 iqn.1998-01.com.vmware:esxc R740-ESXi-03, R740-ESXi-shared
iSCSI-svm iscsi-133-02 iqn.1998-01.com.vmware:esxc R740-ESXi-03, R740-ESXi-shared
iSCSI-svm iscsi-133-02 iqn.1998-01.com.vmware:esxa R740-ESXi-shared, R740-ESXi-01
iSCSI-svm iscsi-134-01 iqn.1998-01.com.vmware:esxc R740-ESXi-03, R740-ESXi-shared
iSCSI-svm iscsi-134-01 iqn.1998-01.com.vmware:esxb R740-ESXi-02, R740-ESXi-shared
iSCSI-svm iscsi-134-02 iqn.1998-01.com.vmware:esxc R740-ESXi-03, R740-ESXi-shared
```

You are preparing to upgrade and reboot your ONTAP cluster nodes. Before performing the upgrade, you review the output shown in the exhibit.

Which troubleshooting step should be performed in this situation?

- A. Disable iSCSI LIFs iscsi-133-01 and iscsi-133-02.
- B. Enable ALUA in the svm-iSCSI SVM.
- C. Review the iSCSI sessions from the iSCSI hosts.
- D. Add missing iSCSI initiators to the R740-ESXi-shared igroup.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

During a maintenance window, the administrator attempts to take over node-01 from node-02. The command failed, and the following message was displayed:

Error: command failed: Failed to initiate takeover. Reason: Node can't see some of the partner's disks.

What should the administrator do in this scenario?

- A. Look for missing nodes using the `storage disk show -fields nodelist` command.
- B. Look for missing nodes using the `storage aggregate show -fields node` command.
- C. Look for missing nodes using the `storage failover show -fields node` command.
- D. Look for missing nodes using the `storage pool show -fields node` command.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://kb.netapp.com/app/answers/answer\\_view/a\\_id/1028772/~troubleshooting-workflow%3A-takeover-not-possible-](https://kb.netapp.com/app/answers/answer_view/a_id/1028772/~troubleshooting-workflow%3A-takeover-not-possible-)

**QUESTION 11**

Click the Exhibit button.



```

Wed Dec 15 13:00:00 CET [cl02-02: statd: kern.uptime.filer:info]: 1:00pm up 175 days, 17:27
14 NFS ops, 0 CIFS ops, 0 HTTP ops, 0 FCP ops, 674619 iSCSI ops
Wed Dec 15 13:00:01 CET [cl02-02: slfc_intrd: fci.link.break:error]: Link break detected on
Fibre Channel adapter 2a.
Wed Dec 15 13:00:01 CET [cl02-02: slfc_intrd: fci.link.break:error]: Link break detected on
Fibre Channel adapter 2c.
Wed Dec 15 13:00:02 CET [cl02-02: ispfcvi2500_port1: fcvi.update.link.state:notice]: FC-VI
adapter: Physical link is down on port 0e.
Wed Dec 15 13:00:02 CET [cl02-02: ispfcvi2500_main1: ems.engine.suppressed:debug]: Event
'pfo.failover.start.error' suppressed 1 times in last 5500080 seconds.
Wed Dec 15 13:00:02 CET [cl02-02: fcvi_cm: ic.rdma.qpDisconnected:debug]: WAFL is disconnected.
Wed Dec 15 13:00:02 CET [cl02-02: fcvi_cm: nvmm.mirror.aborting:debug]: mirror of sysid 3,
partner_type AUXDR PARTNER and mirror state NVMM_MIRROR_LAYOUT_SYNCED is aborted because of
reason NVMM_ERR_LINK_DOWN.
Wed Dec 15 13:00:02 CET [cl02-02: ctrl_hb_port_fcvi_device_0: ctrl.rdma.heartBeat:info]: HA
interconnect: Missed heartbeat to 2.0.3.6.
Wed Dec 15 13:00:02 CET [cl02-02: ctrl_hb_port_fcvi_device_0:
fcvi.qlqc.sent.disconnect:notice]: FC-VI adapter: Disconnect request sent on port 0f. QP name =
WAFL, QP index = 10, Remote node's system id = 537100774.
Wed Dec 15 13:00:02 CET [cl02-02: ctrl_hb_port_fcvi_device_0:
fcvi.qlqc.sent.disconnect:notice]: FC-VI adapter: Disconnect request sent on port 0f. QP name =
DRC_KILL, QP index = 15, Remote node's system id = 537100774.
Wed Dec 15 13:00:02 CET [cl02-02: ctrl_hb_port_fcvi_device_0: ctrl.rdma.heartBeat:info]: HA
interconnect: Missed heartbeat to 2.0.0.6.
Wed Dec 15 13:00:03 CET [cl02-02: waflexempt04: nvmm.mirror.aborting:debug]: mirror of sysid
1, partner_type HA Partner and mirror state NVMM_MIRROR_ONLINE is aborted because of reason
NVMM_DR_ABORT_TIMEOUT.

```

You receive a "SYNC MIRROR PLEX FAILED" AutoSupport message from a 4-node MetroCluster. Referring to the exhibit, which command would you use to help identify the problem?

- A. Review the `ha-config show` command output.
- B. Review the `metrocluster check aggregate show` command output.
- C. Review the `cluster peer health show` command output.
- D. Review the `metrocluster show` command output.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://kb.netapp.com/app/answers/answer\\_view/a\\_id/1005460](https://kb.netapp.com/app/answers/answer_view/a_id/1005460)

**QUESTION 12** You want to aggregate throughput for a single LIF across several physical ports.

In this scenario, which two ONTAP features would accomplish this goal? (Choose two.)



- A. broadcast domains
- B. unified target ports
- C. interface groups
- D. virtual IP (VIP) LIFs

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/topic/com.netapp.doc.dot-cm-nmg/GUID-A8EF6D34-1717-4813-BBFA-AA33E104CF6F.html> <https://library.netapp.com/ecmdocs/ECMP1401193/html/GUID-DBC9DEE2-EAB7-430A-A773-4E3420EE2AA1.html>

### QUESTION 13

A coworker notices an "Unsynchronized Log" message on an AFF A700 controller. You suspect that the problem might be with the HA interconnect. In

this scenario, which two commands would you use to provide additional information? (Choose two.)

- A. Use the `event log show` command.
- B. Use the `system cluster-switch show` command.
- C. Use the `storage failover show` command.
- D. Use the `storage adapter show` command.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 14** After a successful upgrade from ONTAP 9.3 to ONTAP 9.5, you have a compatibility issue and must downgrade to ONTAP 9.3.

Which action must be performed to accomplish this task?

- A. ONTAP must be directly downgraded to ONTAP 9.0 first.
- B. ONTAP must be directly downgraded to ONTAP 9.4 first.
- C. ONTAP must be directly downgraded to ONTAP 9.3 first.
- D. ONTAP must be directly downgraded to ONTAP 9.2 first.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-ug-rdg%2FGUID-AC0EB781-583F-4C90-A4C4-BC7B14CEFD39.html>

### QUESTION 15

Click the Exhibit button.

```
[monitor.brokenDisk.notice:notice]: When a disk is broken, the system shuts down automatically every 24 hours to encourage you to replace the disk. If you reboot the system it will run for another 24 hours before shutting down. (The 24 hour timeout may be increased by altering the raid.timeout value using the options command.)
```

You receive the AutoSupport message that is shown in the exhibit.

Under which two circumstances would you receive this message? (Choose two.)

- A. There is a three-disk failure in a RAID-TEC group.
- B. There is a two-disk failure in a RAID DP group.
- C. There is a single-disk failure in a RAID DP group.
- D. There is a two-disk failure in a RAID-TEC group.

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://library.netapp.com/ecmdocs/ECMP1196986/html/GUID-308CE46D-2CB0-4F70-96A9-A2151C5CA61F.html>

#### QUESTION 16

You want to monitor and generate reports on a customer's IT infrastructure, including virtual and cloud-based components, even though the customer has not purchased or installed any ONTAP software.

In this scenario, which NetApp tool would be used to accomplish this task?

- A. OnCommand Insight
- B. OnCommand Workflow Automation
- C. OnCommand Unified Manager
- D. OnCommand System Manager

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 17

A client asks you to analyze performance anomalies that the company experienced several days ago. In this scenario, which tool will help you accomplish this task?

- A. ConfigAdvisor
- B. OnCommand System Manager
- C. Perfstat
- D. OnCommand Unified Manager

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/us/media/tr-4585.pdf>

#### QUESTION 18

Click the Exhibit button.

```

alphana1::> volume show -vserver lab-fs2
Vserver   Volume           Aggregate   State    Type    Size   Available Used%
-----
lab-fs2   lab_fs2_root     aggr1_01   online   RW      1GB    970.9MB  5%
lab-fs2   lab_fs2_root_ls01 aggr1_01   online   LS      1GB    970.9MB  5%
lab-fs2   lab_fs2_root_ls02 aggr1_02   online   LS      1GB    970.9MB  5%
lab-fs2   projectX         aggr1_02   online   RW      100GB  95.00GB  5%
lab-fs2   public           aggr1_01   online   RW      50GB   25.00GB  50%
5 entries were displayed.

alphana1::> vserver cifs share show -vserver lab-fs2
Vserver   Share    Path    Properties Comment  ACL
-----
lab-fs2   admin$   /        browsable -        -
lab-fs2   c$       /        oplocks  -        BUILTIN\Administrators /
Full Control

lab-fs2   ipc$     /        browsable -        -
lab-fs2   projectX /projectX oplocks  -        Everyone / Full Control
lab-fs2   public  /public  browsable -        Everyone / Full Control

5 entries were displayed.

alphana1::> vserver export-policy rule show -vserver lab-fs2
There are no entries matching your query.

```

You create a new CIFS share named projectX. Users are unable to see the new share. However, they can see and access the existing share named public.

Referring to the exhibit, what should you do to allow users to access the new projectX share?

- A. Move the projectX volume to aggr1\_01.
- B. Modify the projectX share permissions to allow access.
- C. Create an export policy rule to allow access.
- D. Update the load sharing mirror set.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 19

Which sequence of actions should you perform after replacing a memory DIMM?

- A. From the loader prompt, start diagnostics mode.
- B. From the special boot menu, select option 6, Update flash, from the backup configuration.
- C. From the special boot menu, select option 4, Clean configuration, and initialize all disks.
- D. From the loader prompt, boot the backup image.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://library.netapp.com/ecm/ecm\\_download\\_file/ECMP1119134](https://library.netapp.com/ecm/ecm_download_file/ECMP1119134)

**QUESTION 20** During deployment of a FAS9000 system, the administrator wants to make efficient use of HDD disk space.

Which partitioning type would achieve this goal?

- A. root-data
- B. root-data-data
- C. storage pool
- D. whole disk

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [http://web.stanford.edu/group/storage/dot9/ONTAP\\_9\\_Release\\_Notes.pdf](http://web.stanford.edu/group/storage/dot9/ONTAP_9_Release_Notes.pdf) (46)

**QUESTION 21** Which two statements are true about space-reserved LUNs? (Choose two.)

- A. If the LUN's volume has a space guarantee of "none", then free space is allocated to the LUN at creation time.
- B. If the LUN's volume has a space guarantee of "volume", then free space is allocated to the LUN at write time.
- C. If the LUN's volume has a space guarantee of "volume", then free space is allocated to the LUN at creation time.
- D. If the LUN's volume has a space guarantee of "none", then free space is allocated to the LUN at write time.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://kb.netapp.com/app/answers/answer\\_view/a\\_id/1002502/~faq%3A-how-is-space-utilization-managed-in-a-data-ontap-san-environment%3F-](https://kb.netapp.com/app/answers/answer_view/a_id/1002502/~faq%3A-how-is-space-utilization-managed-in-a-data-ontap-san-environment%3F-)

**QUESTION 22** Some users are unable to open certain files on an ONTAP SMB share. You verify that the users are able to open other files on the share. Which action should you perform to troubleshoot this issue?

- A. Validate network connectivity from the users to the NetApp cluster.
- B. Check the share-level permissions.
- C. Check the access-based enumeration settings.
- D. Perform a security trace.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://kb.netapp.com/app/answers/answer\\_view/a\\_id/1071815/~troubleshooting-cifs-or-smb-access-denied-](https://kb.netapp.com/app/answers/answer_view/a_id/1071815/~troubleshooting-cifs-or-smb-access-denied-)





**QUESTION 23** You have a 4-node MetroCluster configuration. The systems are operating normally with no faults.

In this scenario, which statement describes the usage of NVRAM when a host sends a write to a node?

- A. Incoming writes are written to the receiving node's NVRAM and its DR partner's NVRAM only.
- B. Incoming writes are written to the receiving node's NVRAM, its HA partner's NVRAM, and its DR partner's NVRAM only.
- C. Incoming writes are written to the receiving node's NVRAM and its HA partner's NVRAM only.
- D. Incoming writes are written to the all four nodes' NVRAM.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

You have two ONTAP 9.3 clusters, and you want to establish new SnapMirror relationships between them.

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

- A. The source and destination SVM names must match.
- B. The language settings on the source and destination volumes must match.
- C. The source cluster must be running a newer version of ONTAP than the destination cluster.
- D. The destination volume must be the same size as or larger than the source volume.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 25**

Click the Exhibit button.

```
fas3070-ams> df -h unix
Filesystem            total    used    avail  capacity  Mounted on
/vol/unix/             90GB    32GB    57GB      36%    /vol/unix/
/vol/unix/.snapshot    10GB    20GB     0GB     200%    /vol/unix/.snapshot
```

A customer noticed that data in volume Snapshot copies was using 200% of the total space allocated to the Snapshot reserve. The configured value of the Snapshot reserve is 10%. The customer wants to maintain the current number of Snapshot copies consuming below 100% of the Snapshot reserve.

Referring to the exhibit, which action would satisfy the customer's requirement?

- A. Increase the volume size by 50 GB.
- B. Set the volume's fractional reserve to 0.
- C. Move the Snapshot copies to another volume.
- D. Set the Snapshot reserve to 25%.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

Click the Exhibit button.

```
A::> system node run -node local sysconfig

NetApp Release 9.5P1: Tue Feb 19 16:41:01 EST 2019
System ID: 0536964189 (A-01); partner ID: 0536946358 (A-02)
System Serial Number: 701513000864 (A-01)
System Rev: C0
System Storage Configuration: Mixed-Path HA
System ACP Connectivity: NA
All-Flash Optimized: false
Backplane Part Number: 111-01459
Backplane Rev: D0
Backplane Serial Number: 021404006660
...
```

A storage administrator determines that LUNs which are hosted on a particular aggregate are performing poorly over the previous 24 hours. The storage administrator begins an investigation by issuing the commands that are shown in the exhibit.

In this situation, what would cause the performance degradation?

- A. An SVM DR operation is occurring.
- B. A shelf I/O module fault is occurring.
- C. The HA pair that is hosting the aggregate is in takeover.
- D. A volume move operation is occurring.



**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

When using ONTAP 9.5, in which two configurations is epsilon required if a cluster is healthy? (Choose two.)

- A. single-node cluster
- B. twelve-node cluster
- C. four-node cluster
- D. two-node cluster

**Correct Answer: AB**

**Section: (none)**

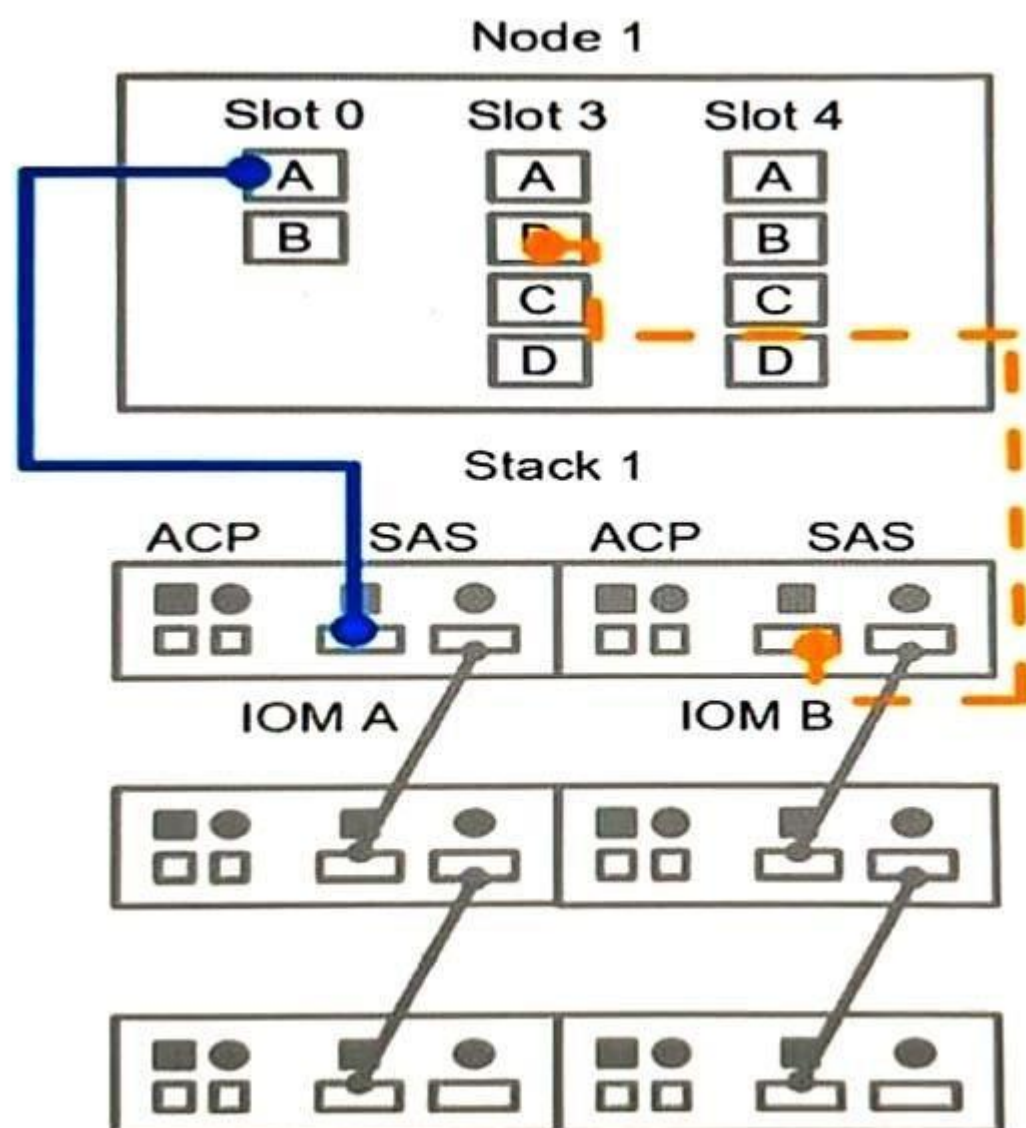
**Explanation**

**Explanation/Reference:**

Reference: [https://kb.netapp.com/app/answers/answer\\_view/a\\_id/1002676/~/-what-is-cluster-ha-and-how-is-epsilon-utilized-to-maintain-rdb-quorum%3F-](https://kb.netapp.com/app/answers/answer_view/a_id/1002676/~/-what-is-cluster-ha-and-how-is-epsilon-utilized-to-maintain-rdb-quorum%3F-)

**QUESTION 28**

Click the Exhibit button.



Referring to the exhibit, what is the cabling error?

- A. The second path should be connected to slot 0b.
- B. The daisy-chain between the shelves needs to go from a square to a circle.
- C. The ACP ports are not cabled.
- D. The SAS cables are connected to the top shelf for both adapters.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 29

Which statement is true about how ONTAP uses system memory?

- A. System memory is used as a read and write cache.
- B. System memory is used to protect local uncommitted writes against power failures.
- C. System memory is used as a read cache only.
- D. System memory is used to protect an HA partner's uncommitted writes against power failures.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://kb.netapp.com/app/answers/answer\\_view/a\\_id/1003751/~how-does-data-ontap-utilize-system-memory-for-read-and-write-caching%3F-](https://kb.netapp.com/app/answers/answer_view/a_id/1003751/~how-does-data-ontap-utilize-system-memory-for-read-and-write-caching%3F-)

**QUESTION 30** An administrator deployed a FAS8200 system with several aggregates. The administrator wants to improve the performance on their VMware datastores and needs the performance increase to be unaffected during controller failovers.

In this scenario, which technology would satisfy the customer's requirements?

- A. Flash Cache
- B. FlexCache
- C. FabricPool
- D. Flash Pool

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

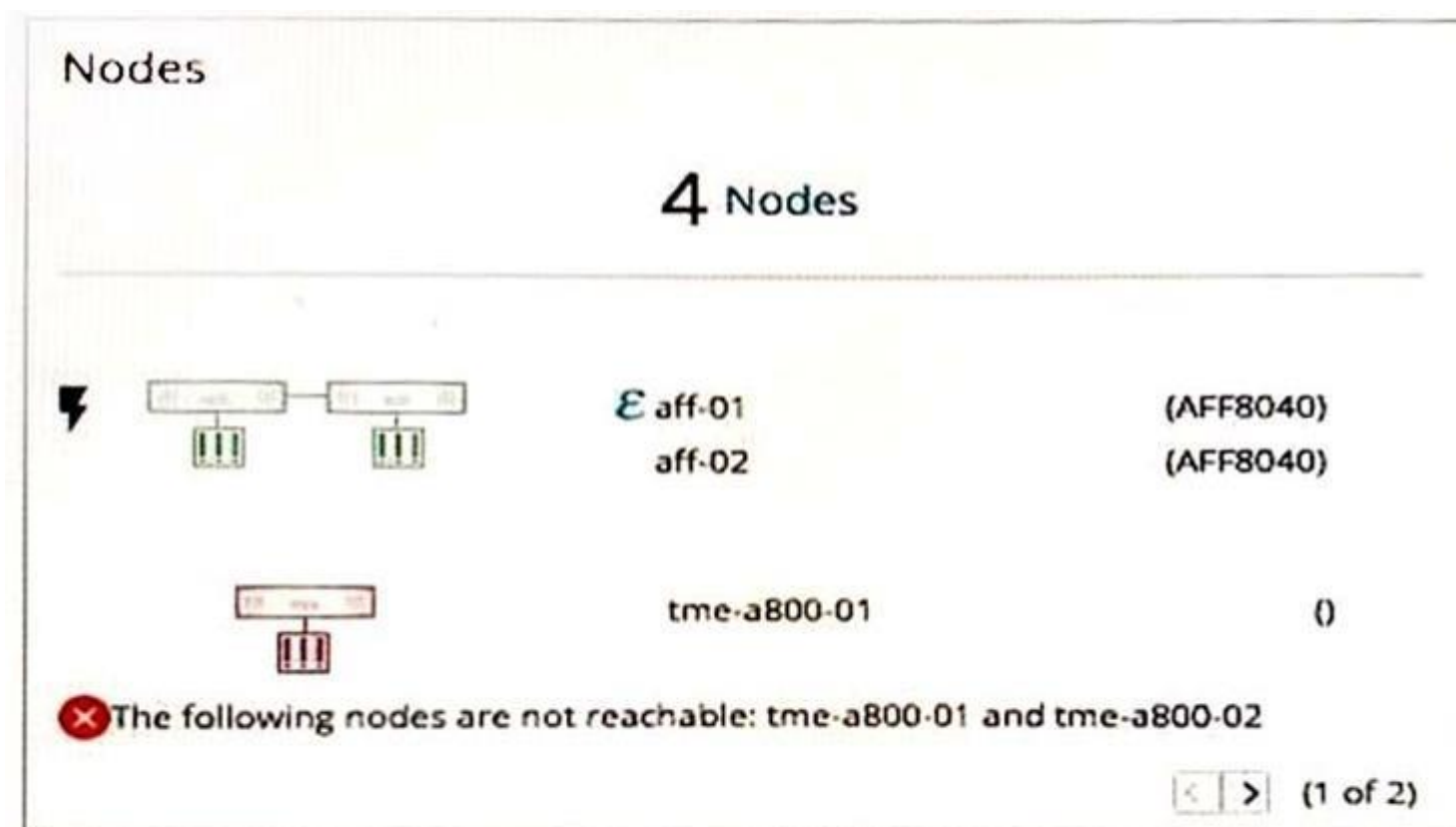
Reference: <https://www.netapp.com/us/media/tr-4597.pdf>

**QUESTION 31**

Click the Exhibit button.







```
aff::> cluster show
```

Node	Health	Eligibility
aff-01	true	true
aff-02	true	true
tme-a800-01	false	true
tme-a800-02	false	true

4 entries were displayed.

The exhibit shows the Nodes section of OnCommand System Manager from ONTAP 9.5 and the output of the `cluster show` command.

Referring to the exhibit, which two statements are correct about the tme-a800-01 and tme-a800-02 nodes? (Choose two.)

- A. The two nodes have lost their connections to the cluster network.
- B. The two nodes are both powered down.
- C. The two nodes have failed over to the AFF-01 and AFF-02 nodes.
- D. The two nodes have been unjoined from the cluster.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

QUESTION 32

Click the Exhibit button.

```
CDOT95::> vserver export-policy rule show -vserver SVM1 -policyname esx
```

Vserver	Policy Name	Rule Index	Access Protocol	Client Match	RO Rule
SVM1	esx	1	any	192.168.1.0/24	any

```
CDOT95::> volume show -vserver SVM1 -fields policy
```

vserver	volume	policy
SVM1	NFS_DS01	default

An administrator enabled the NFS protocol on an SVM and created a volume to be used as a datastore in a VMware environment. An administrator attempts to mount the NFS volume and receives the “Cannot mount / access an NFS volume or file system” error.

Referring to the exhibit, which step must the administrator take to solve this problem?

- A. Reorder the rule indexes.
- B. Change the security style.
- C. Assign the export policy.
- D. Change the access protocol.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <http://storageprofessional.blogspot.com/2015/12/>

**QUESTION 33**

Click the Exhibit button.

```
slot 0: SAS Host Adapter 0a (PMC-Sierra PM8001 rev. C, SAS, <UP>)
Firmware rev:      01.12.09.00
Base WWN:          5:00a098:005861e:b0
Phy State:         [0] Enabled, 3.0 Gb/s
                   [1] Enabled, 3.0 Gb/s
                   [2] Enabled, Rate unknown
                   [3] Enabled, Rate unknown
00.0 : NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6E0A0J6F9XC)
00.1 : NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6E0A0K6F9XC)
00.2 : NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6E0A0K8F9XC)
00.3 : NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6E0A0K7F9XC)
00.4 : NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6E0A0J2F9XC)
00.5 : NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6E0A0J3F9XC)
00.6 : NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6E0A0J4F9XC)
00.7 : NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6E0A0J5F9XC)
00.8 : NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6E0A0K9F9XC)
00.9 : NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6E0A0KAF9XC)
00.10: NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6D0A1YWF9XC)
00.11: NETAPP      X477_TTCRE04TA07 NA01 3807.8GB 520B/sect (X6D0A1YVF9XC)
Shelf 0: DS4243   Firmware rev. IOM3 A: 0212 IOM3 B: 0212
```

Users are reporting poor performance from an aggregate that is hosted on SATA drives in shelf 0. You review the results from the `sysconfig -a` command for any unusual output.

Referring to the exhibit, what should you do to solve this issue?

- A. Upgrade IOM3 to IOM6 modules.
- B. Add SSDs to the aggregate.
- C. Replace the SAS cable.
- D. Replace the drives.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 34

During deployment of an AFF A700 system, the administrator wants to make efficient use of disk space. Which partitioning type would achieve this goal?

- A. root-data-data
- B. GUID Partition Table (GPT)
- C. whole disk
- D. primary

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 35

A customer fails to see any disks in SnapDrive for Windows but they do see them in File Explorer. Which two statements describe what you should do to solve this problem? (Choose two.)

- A. Unmap and map all the LUNs back to the Windows machine.
- B. Perform a rescan from the Disk Management MMC.
- C. Verify that the transport protocol is set to HTTPS.
- D. Restart the SnapDrive for Windows service.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://community.netapp.com/t5/Data-Backup-and-Recovery-Discussions/Can-t-see-any-disks-in-SnapDrive/td-p/71640>

### QUESTION 36

Users are unable to view the Previous Versions tab for an SMB share on an ONTAP 9.3 cluster. What are two reasons for this problem? (Choose two.)

- A. The `show-previous-versions` parameter is not set on the SMB share.
- B. The volume's `snapshot-reserve` is set to 0%.
- C. The volume's `snapdir-access` parameter is not set to true.
- D. The users do not have the correct share permissions.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://kb.netapp.com/app/answers/answer\\_view/a\\_id/1005263/~/enabling-the-windows-explorer-previous-versions-tab-in-ontap-9-3](https://kb.netapp.com/app/answers/answer_view/a_id/1005263/~/enabling-the-windows-explorer-previous-versions-tab-in-ontap-9-3)

### QUESTION 37

Click the Exhibit button.

Workload	ID	Latency	Network	Cluster	Data	Disk	QoS	NVRAM
test-wid1234	1234	12.38ms	74.00us	64.00us	135.00us	3.76ms	0ms	8.49ms
test-wid1234	1234	11.92ms	73.00us	73.00us	143.00us	3.07ms	0ms	8.62ms
test-wid1234	1234	12.42ms	73.00us	59.00us	178.00us	3.32ms	0ms	8.89ms

You have an ONTAP 2-node cluster. You complete the hardware assembly as quickly as possible and get everything online. You run a synthetic read/write test workload against a CIFS share, and it is slower than you expected. You run the same test again, but this time, you monitor the storage using a QoS command.

Referring to the exhibit, what is the problem?

- A. The slow disks are feeding back into NVRAM and slowing it down.
- B. An HA interconnect problem is present.
- C. Indirect cluster network traffic is driving up latency.
- D. There is not enough NVRAM.

**Correct Answer:** C



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 38** Which command should be used to start a packet trace in ONTAP 9.5?

- A. `network traceroute`
- B. `system node run -node * pktt start`
- C. `network tcpdump start`
- D. `vserver security trace`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://kb.netapp.com/app/answers/answer\\_view/a\\_id/1029833/~how-to-capture-packet-traces-%28tcpdump%29-on-ontap-9.2%2B-systems-](https://kb.netapp.com/app/answers/answer_view/a_id/1029833/~how-to-capture-packet-traces-%28tcpdump%29-on-ontap-9.2%2B-systems-)

**QUESTION 39** Which routing protocol is required for virtual IP (VIP) LIFs?

- A. Open Shortest Path First (OSPF)
- B. Border Gateway Protocol (BGP)
- C. Intermediate System to Intermediate System (IS-IS)
- D. Routing Information Protocol (RIP)

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-nmg%2FGUID-A8EF6D34-1717-4813-BBFA-AA33E104CF6F.html>

**QUESTION 40**

An administrator creates a CIFS volume on a FAS8200 system. The administrator maps the file share and receives a permission denied message when attempting to set an ACL.

In this scenario, which actions would help to solve the issue?

- A. Set the efficiency policy on the volume.
- B. Set the security style UNIX on the volume.
- C. Set the security style NTFS on the volume.
- D. Install SecureShare extension to set ACLs.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://kb.netapp.com/app/answers/answer\\_view/a\\_id/1001083/~top-10-nfs-issues-and-solutions-](https://kb.netapp.com/app/answers/answer_view/a_id/1001083/~top-10-nfs-issues-and-solutions-) (mapping issues)

**QUESTION 41** Which two SVMs would benefit from a load-sharing

mirror? (Choose two.) A. An SVM that is configured for FCP.

B. An SVM that is configured for CIFS.



- C. An SVM that is configured for NFS.
- D. An SVM that is configured for iSCSI.

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://library.netapp.com/ecmdocs/ECMP1368017/html/GUID-4931A901-D6D0-458B-8D3A-A92427FDD8B8.html>

#### QUESTION 42

You have a 4-node cluster configured for FC. You create a new LUN on node 1, map the LUN to a host, and verify that the host is able to correctly access the LUN. However, after moving the LUN's volume to node 3, ALUA reports that all the paths are non-optimized. You have already verified that all zoning and physical cabling is correct.

What should you do to enable ALUA to see the optimized paths?

- A. Update the reporting nodes for the LUN mapping.
- B. Update the igroup initiator WWPN.
- C. Update the MPIO policy to most recently used.
- D. Update the MPIO policy to round-robin.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 43

You provision a new ONTAP volume to use as a VMware vSphere NFS datastore. You successfully mount the volume to the vSphere (ESXi) hosts, and you can read, write, and delete small (less than 1 KB) test files. However, you cannot upload large files or Storage vMotion VMs to the new datastore. You verify that the volume is reporting adequate free space.

Which action should you perform to troubleshoot this problem?

- A. Verify that the NFS LIF is on its home port.
- B. Verify the MTU configuration along the network path.
- C. Verify that the security style is set correctly on the volume.
- D. Verify that the export policy is correct for the volume.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://kb.vmware.com/s/article/1003967>

#### QUESTION 44

Click the Exhibit button.

```
cluster1::> qos statistics workload latency show -iterations 100 -rows 3
Workload          ID Latency   Network Cluster      Data      Disk      QoS      NVRAM      Cloud
-----
-total-
          110.35ms  110.02ms      0ms   327.00us      0ms      0ms      0ms      0ms
vs1vol0          111
167.82ms  167.22ms      0ms   603.00us      0ms      0ms      0ms
vol1            1234
117.76ms  117.56ms      0ms   191.00us      0ms      0ms      0ms
vol2            999  44.24ms   44.05ms      0ms   190.00us      0ms      0ms      0ms
-total-
          38.89ms   38.63ms      0ms   256.00us      0ms      0ms      0ms
vol2            999  64.47ms   64.20ms      0ms   266.00us      0ms      0ms      0ms
vol1            1234  27.28ms   27.03ms      0ms   253.00us      0ms      0ms      0ms
vs1vol0          111  23.72ms   23.47ms      0ms   249.00us      0ms      0ms      0ms
-total-
          409.81ms  409.65ms      0ms   169.00us      0ms      0ms      0ms
vol1            1234
816.92ms  816.80ms      0ms   120.00us      0ms      0ms      0ms
vol2            999
407.88ms  407.66ms      0ms   219.00us      0ms      0ms      0ms
vs1vol0          111   3.68ms    3.49ms      0ms   193.00us      0ms      0ms      0ms
```

Your SAN customer is experiencing database latency, that is backed by an AFF A300 cluster. The LUNs are connected using a 16Gb fabric.

Referring to the exhibit, which two steps would you take to determine the issue? (Choose two.)

- A. Inspect the controller for CPU utilization.
- B. Determine if there are issues on the hosts.
- C. Investigate the switch for underruns or other problems.
- D. Examine the controller for faults with the SSDs.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 45

Click the Exhibit button.

```
cluster1::> vservers audit show
Vserver      State  Event Types      Log Format Target Directory
-----
CIFS         true   file-ops,
             cifs-logon-logoff,
             cap-staging,
             file-share,
             user-account,
             security-group,
             authorization-
             policy-change,
             audit-policy-
             change
```

```
cluster1::> volume show -vserver CIFS -fields junction-path,percent-used
vserver volume junction-path percent-used
-----
CIFS     logs    /logs          100%
CIFS     svm_root
          /           6%
CIFS     data    /data          10%
```

```
cluster1::> vservers cifs share show -vserver CIFS
Vserver      Share      Path      Properties Comment ACL
-----
CIFS         admin$     /          browsable - -
CIFS         data       /data      oplocks   - Everyone / Full Control
             browsable
             changenotify
             show-previous-versions
```

```
cluster1::> system license show
Serial Number: 1-81-000000000000
Owner: cluster1-01
Package      Type      Description      Expiration
-----
NFS          license   NFS License      -
CIFS         license   CIFS License      -
iSCSI        license   iSCSI License      -
FCP          license   FCP License      -
```

You have configured CIFS auditing. After a week, all users are complaining that they cannot access the CIFS shares anymore.

Referring to the exhibit, what is the reason for this problem?

- A. The audit log volume is full.
- B. CIFS auditing only works with SMB 3.
- C. The CIFS license is missing.
- D. The affected users are not showing in the share ACLs.

**Correct Answer: C**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 46** When troubleshooting an I/O module (IOM), which action should you perform before replacing it?

- A. Swap IOM-A with IOM-B in the shelf.
- B. Reseat the IOM.
- C. Reboot the node.
- D. Power cycle the shelf.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 47**

Customers are accessing data that was mirrored from an ONTAP 9.3 system to an ONTAP 9.5 system using DP SnapMirror. Performance on the ONTAP 9.5 system is degraded.

In this scenario, what would cause this problem?

- A. The ONTAP 9.5 node's data must be deswizzled.
- B. The ONTAP 9.5 node's using a traditional volume.
- C. The ONTAP 9.3 node's data is not fragmented.
- D. The ONTAP 9.3 node's older Snapshot copies are causing performance problems.



**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 48** A client is attempting to mount a UNIX security style volume using NFSv4. The client receives the “permission denied” message, but mounting NFSv3 works fine. You have confirmed both NFSv4 and NFSv3 are allowed in the export policy.

Which statement describes this behavior?

- A. Extended groups for AUTH\_SYS are enabled.
- B. NFSv4 takes file permissions into account when mounting.
- C. There is no proper name-mapping rule for the user mounting.
- D. The export policy applied to the volume has `superuser` set to `none`.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

Click the Exhibit button.

```
::> qos statistics volume latency show -volume csdata -vserver nas1
```

Workload	ID	Latency	Network	Cluster	Data	Disk	QoS	NVRAM
csdata-wid1234	1234	12.68ms	74.00us	0ms	835.00us	10.77ms	0ms	0ms
csdata-wid1234	1234	12.12ms	73.00us	0ms	643.00us	10.07ms	0ms	0ms
csdata-wid1234	1234	12.42ms	73.00us	0ms	643.00us	10.32ms	0ms	0ms

Your database administrator is complaining of slow read and write performance.

Referring to the exhibit, which action would be taken to improve performance for both reads and writes?

- A. Replace the node's NVRAM.
- B. Move the workload to an SSD aggregate.
- C. Apply a QoS minimum policy to the csdata-wid1234 workload.
- D. Balance the network load among the cluster nodes.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 50

A customer reported an issue that requires more detailed diagnosis than what is provided in an AutoSupport message. The NetApp technical support engineer asked the customer to send a support bundle.

In this scenario, which NetApp tool would satisfy this request?

- A. OnCommand Shift
- B. OnCommand Cloud Manager
- C. OnCommand Unified Manager
- D. OnCommand System Manager

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ocum-95/index.jsp?topic=%2Fcom.netapp.doc.onc-um-ag%2FGUID-78B94C94-4B05-449E-BCFE-9249F16ED9A5.html>

#### QUESTION 51 Which three statements are true about failover groups?

(Choose three.)

- A. Failover groups are not used by SAN LIFs.
- B. A single port cannot reside in multiple failover groups.
- C. When a broadcast domain is created, a failover group is automatically created.
- D. All of the ports in a failover group must belong to the same broadcast domain.
- E. All of the ports in a failover group must be the same speed.

**Correct Answer:** ACD

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-nmg%2FGUID-92E49E15-BE9A-4C5D-ADCA-E606802CBFD4.html>

**QUESTION 52**

An administrator deployed an ONTAP cluster and configured AutoSupport to use HTTPS. You notice that AutoSupport is not sending triggered messages. In

this scenario, what are two areas to validate? (Choose two.)

- A. Verify the Network Time Protocol (NTP) configuration.
- B. Verify that the node management LIF is routable.
- C. Verify that the Service Processor (SP) is routable.
- D. Verify the DNS configuration.

**Correct Answer: AD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 53**

What is NVRAM used for when a node performs a takeover?

- A. The NVRAM contains all the outstanding write operations that were pending to the node that was taken over.
- B. The NVRAM contains only the metadata operations that were pending to the node that was taken over.
- C. The NVRAM contains only the Snapshot copies that were pending to the node that was taken over.
- D. The NVRAM contains all the outstanding read operations that were pending to the node that was taken over.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 54** You deploy an AFF storage system that is running ONTAP 9.5.

In this scenario, which three features are enabled by default? (Choose three.)

- A. inline adaptive compression
- B. inline secondary compressionC. postprocess compression
- D. aggregate-level deduplication
- E. inline data compaction

**Correct Answer: ABE**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

Click the Exhibit button.

Workload	ID	Latency	Network	Cluster	Data	Disk	QoS	NVRAM
csdata-wid1234	1234	27.68ms	74.00us	0ms	835.00us	25.77ms	0ms	0ms
csdata-wid1234	1234	37.12ms	73.00us	0ms	643.00us	35.07ms	0ms	0ms
csdata-wid1234	1234	29.42ms	73.00us	0ms	643.00us	27.32ms	0ms	0ms

Users complain that they are experiencing problems accessing production data due to timeouts. You review the QoS output for a volume that handles the manufacturing production data.

Referring to the exhibit, which command would help to identify the problem?

- A. statit
- B. storage disk show
- C. storage failover show
- D. disk show

**Correct Answer: D**

**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](https://kb.netapp.com/app/answers/answer_view/a_id/1031202/~/_how-to-troubleshoot-performance-issues-in-both-clustered-data-ontap-and-data)

**QUESTION 56** Users are complaining about slow file access. You suspect that the ONTAP cluster is causing the problem.

In this scenario, which ONTAP command would help you troubleshoot this problem?

- A. application show-statistics
- B. qos statistics volume latency show
- C. cluster log-forwarding show
- D. storage aggregate verify

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 57**

How does SnapCenter communicate to ONTAP?

- A. through the admin SVM
- B. directly through a dedicated node
- C. through the Service Processor
- D. through a data SVM

**Correct Answer: D**

**Section: (none)**

**Explanation**



**Explanation/Reference:**

**QUESTION 58**

When using the `storage aggregate show` command, what are three valid RAID status states? (Choose three.)

- A. normal
- B. unknown
- C. mirror degraded
- D. offline
- E. reconstructing

**Correct Answer:** BDE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-cmpr-910%2Fstorage\\_disk\\_show.html](https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-cmpr-910%2Fstorage_disk_show.html)

**QUESTION 59** An administrator wants to perform a patch upgrade on their ONTAP 9.5 HA cluster.

What are two ways to accomplish this task? (Choose two.)

- A. Use the netboot procedure.
- B. Use the automated nondisruptive upgrade (ANDU) process in the Cluster CLI.
- C. Use the automated nondisruptive upgrade (ANDU) process from OnCommand System Manager.
- D. Use the `storage disk updatefirmware` command.

**Correct Answer:** BC

**Section:** (none)

**Explanation**



**Explanation/Reference:**

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-ug-rdg%2FGUID-590B351F-BDDF-41B5-B0F1-391BEC7542E1.html>

**QUESTION 60**

Click the Exhibit button.

## FC/FCoE and NVMe Adapters

/ Edit		Status ▼	Refresh					
WWNN	Node Name	Slot	Data Protocols	WWPN	Status	Speed		
50.0a:09:80:80:21:d4:a7	aff-01	0e	fc	50.0a:09:87:80:21:d4:a7	online	auto		
50.0a:09:80:80:21:d4:a7	aff-01	0g	fc	50.0a:09:86:80:21:d4:a7	online	auto		
50.0a:09:80:80:21:d4:a7	aff-01	0h	fc	50.0a:09:85:80:21:d4:a7	link not connected	auto		

The 0f FCP port is not showing up in the list of FC/FCoE and NVMe adapters as shown in the exhibit.

What is the problem in this situation?

- A. The 0f FCP port is configured as a target port, but it is not connected to a switch.
- B. The 0f FCP port is configured as a CAN port for FCoE.
- C. The 0f FCP port is configured as an initiator.
- D. The 0f FCP port is configured as a target port, but no SFP+ is installed.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

