



# NS0-193<sup>Q&As</sup>

NetApp Certified Support Engineer

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### QUESTION 1

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

Reference: <https://docs.netapp.com/ocum-95/index.jsp?topic=%2Fcom.netapp.doc.onc-um-ag%2FGUID78B94C94-4B05-449E-BCFE-9249F16ED9A5.html>

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### QUESTION 2

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

Reference: <https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-nmg%2FGUID92E49E15-BE9A-4C5D-ADCA-E606802CBFD4.html>

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### QUESTION 3

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

#### QUESTION 4

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

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 5

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

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