



# NS0-192<sup>Q&As</sup>

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### QUESTION 1

A manager wants a volume to have a guaranteed 300 MB/s of read performance. You explain that you cannot do this on FAS storage running ONTAP 9.3 backed by 10,000 RPM disks.

What is the reason for this response?

- A. Throughput floors apply to only iSCSI access.
- B. Throughput floors can only guarantee up to 125 MB/s.
- C. Throughput floors require a license.
- D. Throughput floors require AFF.

Correct Answer: D

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### QUESTION 2

A customer recently experienced a panic on one node of an ONTAP cluster. Prior to performing the giveback, they want to know what caused the panic. You request data from the customer to assist Support in determining the cause of the panic.

What information should be requested in this situation? (Choose three.)

- A. panic string
- B. Perfstat
- C. core dump
- D. message logs
- E. packet trace

Correct Answer: ACD

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### QUESTION 3

Click the Exhibit button.



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Network Interface Statistics (per second)
iface      side      bytes packets multicasts errors collisions pkt drops
e0a        recv     1317.18  17.53    0.00  0.00           0.00  0.00
           xmit     329.33   3.04    0.37  0.00           0.00  0.00
e0b        recv     989.68   14.60    0.00  0.00           0.00  0.00
           xmit     15.33   0.37    0.37  0.00           0.00  0.00
e2a        recv     0.00     0.00    0.00  0.00           0.00  0.00
           xmit     0.00     0.00    0.00  0.00           0.00  0.00
e2b        recv     0.00     0.00    0.00  0.00           0.00  0.00
           xmit     0.00     0.00    0.00  0.00           0.00  0.00
e2c        recv     0.00     0.00    0.00  0.00           0.00  0.00
           xmit     0.00     0.00    0.00  0.00           0.00  0.00
e2d        recv     36.51    0.37    0.00  0.00           0.00  0.00
           xmit     0.00     0.00    0.00  0.00           0.00  0.00
e0M        recv     824.65   12.90   11.56  0.00           0.00  0.00
           xmit     0.00     0.00    0.00  0.00           0.00  0.00
ifgrp1     recv     2031.33  23.11   22.39  0.00           0.00  0.00
           xmit     319.83   3.16    0.73  0.00           0.00  0.00
ifgrp1-450 recv     253.14   2.92    2.92  0.00           0.00  0.00
           xmit     0.00     0.00    0.00  0.00           0.00  0.00
ifgrp1-400 recv     67.18    0.73    0.73  0.00           0.00  0.00
           xmit     0.00     0.00    0.00  0.00           0.00  0.00
ifgrp1-401 recv     0.00     0.00    0.00  0.00           0.00  0.00
           xmit     0.00     0.00    0.00  0.00           0.00  0.00
e2d-400    recv     35.05    0.37    0.37  0.00           0.00  0.00
           xmit     0.00     0.00    0.00  0.00           0.00  0.00

```

```

Disk Statistics (per second)
ut% is the percent of time the disk was busy.
xfers is the number of data-transfer commands issued per second.
xfers = ureads + writes + cpreads + greads + gwrites
chain is the average number of 4K blocks per command.
users is the average disk round-trip time per 4K block.

```

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disk      ut% xfers  ureads--chain-usecs  writes--chain-usecs  cpreads--chain-usecs  greads--chain-usecs  gwrites--chain-usecs
/aggrSATA/plex0/rg0:
0a16     100 132.58  0.37    3.00 13333  0.00    .....  0.00    .....  0.12  64.00 484  132.09  64.00 .
0a22     68 132.70  0.37    3.00 1778  0.00    .....  0.00    .....  132.34 64.00 131  0.00    ..... .
0a26     69 132.70  0.37    3.00 1889  0.00    .....  0.00    .....  132.34 64.00 133  0.00    ..... .
0a23     68 132.70  0.38    3.00 1758  0.00    .....  0.00    .....  132.24 64.00 130  0.00    ..... .
0a28     67 132.70  0.37    3.00 1679  0.00    .....  0.00    .....  132.54 64.00 150  0.00    ..... .
0a32     72 132.70  0.35    3.00 1568  0.00    .....  0.00    .....  132.14 64.00 140  0.00    ..... .
0a35     69 133.70  0.36    3.00 1929  0.00    .....  0.00    .....  132.24 64.00 142  0.00    ..... .
0a36     68 131.38  0.37    3.00 1908  0.00    .....  0.00    .....  132.54 64.00 135  0.00    ..... .
0a38     66 132.00  0.37    3.00 1889  0.00    .....  0.00    .....  132.64 64.00 137  0.00    ..... .

Aggregate statistics:
Minimum 66 131.38 0.35           0.00           0.00           0.12           0.00
Mean    74 132.20 0.37           0.37           0.00           110.07          10.91
Maximum 100 132.70 0.38           1.34           0.00           132.34          132.09

```

Your customer's disks are showing 100% utilization, but the customer sees minimal user I/O. You collect statistics using the statit command over a 10-second time period as shown in the exhibit.

In this scenario, what is the problem?

- A. The end users are doing a lot of reads on the SATA disks that are using vStorage APIs
- B. Disk 0a.16 is being used to reconstruct data from a failed disk in the aggregate.
- C. Disk 0a.16 is faulty and should be replaced.
- D. The network has too many multicast packets.

Correct Answer: D

#### QUESTION 4

A customer has a Window PC connected to an SMB share for a newly created volume on ONTAP storage. The share properties indicate that it has 475 GB free. However, the volume is configured as a 500 GB volume.

Which technology is responsible for this situation?



- A. deswizzling
- B. deduplication
- C. Snapshot reserve
- D. compression

Correct Answer: D

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#### QUESTION 5

You need to non-disruptively remove a DS224C shelf from a 4-shelf stack.

Which three actions should be performed to accomplish this task? (Choose three.)

- A. Ensure that an aggregate relocation has been performed.
- B. Ensure that the HA pair is not in a takeover state.
- C. Ensure that the stack is connected using multipath high availability.
- D. Ensure that each node is in a takeover state when you remove the cables.
- E. Ensure that no aggregates exist on the shelf.

Correct Answer: ABC

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

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