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

NS0-192$^{Q\&As}$

NetApp Certified Support Engineer

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**QUESTION 1**

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

**QUESTION 2**

After you replace a network adapter card in a NetApp node, what should be done before you put the node back into production?

A. From the cluster::> prompt, use the sldiag utility for testing before rejoining the cluster.

B. From the LOADER> prompt, use the boot_diags command and use the sldiag utility for testing.

C. From the LOADER> prompt, use the boot_ontap command to boot into ONTAP and use the sldiag utility for testing.

D. From the cluster::> prompt, use the set diag command for testing before rejoining the cluster.

Correct Answer: C

**QUESTION 3**

Click the Exhibit button.

```
======== ENVIRONMENT ========

Channel: 0a
    Shelf: 01
    SES device path: local access: 0b.01.99
    Module type: IOM6; monitoring is active
    Shelf status: critical condition
    SES Configuration, shelf 01:
        logical identifier=0x50050cc10201f73b
        vendor identification=NETAPP
        product identification=DS4246
        product reversion level=0212
    Vendor-specific information:
        Product Serial Number: SHX0954493H1HVG
    Status reads attempted: 1759057; failed: 0
    Control writes attempted: 0; failed: 0
    Shelf bays with disk devices installed:
        23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9,
        8, 7, 6, 5, 4, 3, 2, 1, 0
    With error: none
Power Supply installed element list: 1, 4; with error: 1
Power Supply information by element:
    [1] Serial number: PMW8256300690BE    Part number: 0082562-12
        Type: 9C
        Firmware version: 0311    Swaps: 0
    [2] Serial number:     Part number:
        Type:
        Firmware version:    Swaps: 0
    [3] Serial number:       Part number:
        Type:
        Firmware version:    Swaps: 0
    [4] Serial number: PMW825630065ECB    Part number: 0082562-12
        Type: 9C
        Firmware version: 0311 Swaps: 0
    Voltage sensor installed element list: 1,2,7,8; with error: 7 8
    Shelf voltages by element:
        [1] 5.00 Volts Normal voltage range
        [2] 12.01 Volts Normal voltage range
        [3] Unavailable
        [4] Unavailable
        [5] Unavailable
        [6] Unavailable
        [7] Unavailable
        [8] Unavailable
    Current Sensor installed element list: 1,2,7,8; with error: none
    Shelf currents by element:
        [1] 7850 mA Normal current range
        [2] 6050 mA Normal current range
        [3] Unavailable
        [4] Unavailable
    Cooling Unit installed element list: 1,2,7,8; with error: 8
    Cooling Units by element:
        [1] 2920 RPM
        [2] 3000 RPM
        [3] Unavailable
        [4] Unavailable
        [5] Unavailable
        [6] Unavailable
        [7] 3370 RPM
        [8] Unavailable
```

```
Temperature Sensor installed element list: 1, 2, 3, 4, 9, 10,
11, 12; with error: none
Shelf temperatures by element:
    [1] 27 C (80 F) (ambient)    Normal temperature range
    [2] 37 C (98 F) Normal temperature range
    [3] 37 C (98 F) Normal temperature range
    [4] 46 C (114 F) Normal temperature range
    [5] Unavailable
    [6] Unavailable
    [7] Unavailable
    [8] Unavailable
    [9] 37 C (98 F) Normal temperature range
    [10] 47 C (116 F) Normal temperature range
    [11] 41 (105 F) Normal temperature range
    [12] 41 C (105 F) Normal temperature range
Temperature thresholds by element:
    [1] High critical: 42 C (107 F); high warning: 40 C (104 F)
        Low critical: 0 C (32 F); Low warning: 5 C (41 F)
    [2] High critical: 55 C (131 F); high warning: 50 C (50 F)
        Low critical: 5 C (41 F); Low warning: 10 C (50 F)
    [3] High critical: 55 C (131 F); high warning: 50 C (122 F)
        Low critical: 5 C (41 F) Low warning: 10 C (50 F)
    [4] High critical 70 C (158 F); high warning 65 C (149 F)
        Low critical: 5 C (41 F); low warning 10 C (50 F)
    [5] High critical: Unavailable; high warning: Unavailable
        Low critical: Unavailable; low warning: Unavailable
    [6] High critical: Unavailable; high warning: Unavailable
        Low critical: Unavailable; low warning: Unavailable
    [7] High critical: Unavailable; high warning: Unavailable
        Low critical: Unavailable; low warning: Unavailable
    [8] High critical: Unavailable; high warning: Unavailable
        Low critical: Unavailable; low warning: Unavailable
    [9] High critical: 55 C (131 F); high warning: 50 C (122 F)
        Low critical: 5 C (41 F); low warning: 10 C (50 F)
    [10] High critical: 70 C (158 F); high warning: 65 C (149 F)
        Low critical: 5 C (41 F); low warning: 10 C (50 F)
    [11] High critical: 60 C (140 F); high warning: 55 C (131 F)
        Low critical: 5 C (41 F); low warning: 10 C (50 F)
    [12] High critical: 60 C (140 F); high warning: 55 C (131 F)
        Low critical: 5 C (41 F); Low warning: 10 C (50 F)
ES Electronics installed element list: 1, 2; with error: none
ES Electronics reporting element: 1
ES Electronics information by element:
    [1] Serial number: IMS0948580G3CCQ    Part number: 0948580-05
        CPLD version: 14    Swaps: 0
    [2] Serial number: IMS0948580GF1RW    Part number: 0948580-23
        CPLD version: 14    Swaps: 0
SAS connector attached element list: 1, 2, 3, 4; with error: none
SAS cable information by element:
    [1] Vendor: Amphenol
        Type: QSFP+ passive copper 0.5-1.0m    ID:    Swaps: 0
        Serial number: APF16280116483    Part number: X66020A-R6+A0
    [2] Vendor: Amphenol
        Type: QSFP+ passive copper 0.5-1.0m    ID: 01    Swaps: 0
        Serial number: APF16280116484    Part number: X66020A-R6+A0
    [3] Vendor: Molex Inc.
        Type: QSFP+ passive copper 2m    ID: 01    Swaps: 0
        Serial number: 616630488    Part number: 112-00430+A0
    [4] Vendor: Molex Inc.
        Type: QSFP+ passive copper 2m    ID: 01    Swaps: 0
        Serial number: 616630590    Part number: 112-00430+A0
ACP installed element: list: 1, 2; with error; none
ACP information by element:
    [1] MAC address: 00:50:CC:65:DD:69
    [2] MAC address: 00.50:CC:77:72:D6
SAS Expander Module installed element list: 1, 2; with error: none
SAS Expander master module: 1
```

Using the data shown in the exhibit, which two parts would you recommend replacing? (Choose two.)

A. PSU2

B. I/O module (IOM) 1

C. PSU1

D. I/O module (IOM) 2

Correct Answer: CD

**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

**QUESTION 5**

In an ONTAP write process, which two statements are true about memory and NVRAM of a node? (Choose two.)

A. The writes from the local NVRAM are written to disks at periodic intervals or when NVRAM is full.

B. The writes are only written to NVRAM of local and partner nodes.

C. The writes from the local memory are written to disk at periodic intervals or as needed.

D. The initial writes are written to local memory followed by local and partner NVRAMs.

Correct Answer: AB

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