



NS0-192^{Q&As}

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QUESTION 1

You have a vSphere Essentials Plus environment configured with NetApp LUNs for datastores. You are backing up the environment using the SnapCenter Plug-in for VMware vSphere. However, you are having problems performing restore operations using SnapCenter.

What is a reason for this problem?

- A. NetApp Virtual Storage Console is required for restore operations.
- B. Only NFS datastores are supported with SnapCenter.
- C. A Windows-based vCenter Server is required.
- D. VMware Storage vMotion is not licensed.

Correct Answer: D

Reference: <http://docs.netapp.com/ocsc-40/index.jsp?topic=%2Fcom.netapp.doc.ocsc-dpg-vm%2FGUID49D66AC0-F012-4993-80BD-8F3353F80220.html>

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: IQM6; 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

You have severe database performance issues with a server connected to 8-Gb FC switches to storage. You know that the problem is not the storage because the QoS output indicates that the issue is outside the controller. You need to examine each piece of the chain, such as switch port status and the host contribution to latency.

In this scenario, which NetApp product would provide the required information?

- A. OnCommand Unified Manager
- B. OnCommand Insight
- C. SnapDrive
- D. OnCommand Performance Manager

Correct Answer: D

QUESTION 5

A customer has an SVM with an SSD aggregate that is reaching capacity. They want to move the data to another SVM with attached SATA drives.

Which two ONTAP features will accomplish this task? (Choose two.)

- A. volume copy
- B. volume move
- C. volume rehost
- D. volume relocate

Correct Answer: BC

Reference: <https://whyistheinternetbroken.wordpress.com/2016/06/08/volume-rehosting-ontap9/>