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QUESTION 1

When a write from a SAN host is received, the information is written within a storage controller before going to RAID. In this scenario, which two main components are used? (Choose two.)

- A. Flash Pool
- B. system memory
- C. NVRAM
- D. FlexCache

Correct Answer: CD

QUESTION 2

Click the Exhibit tab.



```
NetApp Release 8.1.4P7 7-Mode: Fri Nov 21 02:12:14 PST 2014
System ID: 11111111 (filer2); partner ID: 222222222 (filer3)
System Serial Number: 888888888 (C4NLAMSYMD9)
System Rev: E1
System Storage Configuration: Multi-Path HA
System ACP Connectivity: NA
slot 0: System Board 2.5 GHz (System Board XI B3)
Model Name: FAS6080
Part Number: 110-00140
Remote LAN Module Status: Online
Firmware Version: 4.1
slot 0: FC Host Adapter 0a (QLogic 2432 rev. 2, N-port, <UP>)
Firmware rev: 5.4.100
Host Port Id: 0x30100
FC Node Name: 5:00a:098300:27c24a
FC Port Name: 5:00a:098300:27c24a
SFP Vendor: AVAGO
SFP Part Number: AFBR-57R6APZ-NA1
SFP Serial Number: B91102AZ1D
SFP Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch3:1
switch1:15.44 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YEN49L)
switch1:15.45 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YG1U3L)
switch1:6.80 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YBPHXL)
slot 0: FC Host Adapter 0c (QLogic 2432 rev. 2, N-port, <UP>)
Firmware rev: 5.4.100
Host Port Id: 0x40100
FC Node Name: 5:00a:098100:27c24a
FC Port Name: 5:00a:098100:27c24a
SFP Vendor: AVAGO
SFP Part Number: AFBR-57R6APZ-NA1
SFP Serial Number: B91102AUL2
```

```
SFP Serial Number: B91102AUL2
SFP Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch4:1
switch2:15.44 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YEN49L)
switch2:15.45 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YG1U3L)
switch2:6.80 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YBPHXL)
slot 0: FC Host Adapter 0a (QLogic 2432 rev. 2, N-port, <UP>)
Firmware rev: 5.4.100
Host Port Id: 0x30200
FC Node Name: 5:00a:098700:27c24a
FC Port Name: 5:00a:098700:27c24a
SFP Vendor: AVAGO
SFP Part Number: AFBR-57R6APZ-NA1
SFP Serial Number: B91102AUW0
SFP Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch3:2
switch1:15.44 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YEN49L)
switch1:15.45 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YG1U3L)
switch1:6.80 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YBPHXL)
slot 0: FC Host Adapter 0g (QLogic 2432 rev. 2, N-port, )
Firmware rev: 5.4.100
Host Port Id: 0x40200
FC Node Name: 5:00a:098500:27c24a
FC Port Name: 5:00a:098500:27c24a
SFP Vendor: AVAGO
SFP Part Number: AFBR-57R6APZ-NA1
SFP Serial Number: B91102AUL4
SFP Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch4:2
switch2:15.44 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YEN49L)
switch2:15.45 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YG1U3L)
switch2:6.80 : NETAPP X292_HVIPCS60F15 NA03 560.0GB 520B/sect (J9YBPHXL)
slot 1: FCVI Host Adapter 1a (QLogic 2432(2462) rev. 3, F-port, <UP>)
Physical link: UP
```





```

FC Node Name: 21:00:00:24:ff:2a:5a:c2
Firmware rev: 5.3.140 Serial No: RFD1013A65553
Host Port Id: 0x30000
Cacheline size: 16 FC Packet size: 2048
SFF Vendor: FINISAR CORP.
SFF Part Number: FTLF8524E2KNL
SFF Serial Number: PHB1SBF
SFF Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch3:0
I/O base 0x00000000000007000, size 0x100
memory mapped I/O base 0xfe600000, size 0x4000
slot 1: FCVI Host Adapter 1b (QLogic 2432(2462) rev. 3, F-port, <UP>)
Physical link: UP
FC Node Name: 21:00:00:24:ff:2a:5a:c3
Firmware rev: 5.3.140 Serial No: RFD1013A65553
Host Port Id: 0x40000
Cacheline size: 16 FC Packet size: 2048
SFF Vendor: FINISAR CORP.
SFF Part Number: FTLF8524E2KNL
SFF Serial Number: PHB5WSV
SFF Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch4:0
I/O base 0x00000000000007400, size 0x100
memory mapped I/O base 0xfe600000, size 0x4000

===== SYSCONFIG-R =====
RAID group /aggr3/plex1 (normal, block checksums)

RAID Disk Device HA SHELF BAY CHAN Pool Type RPM Used (MB/blks) Phys (MB/blks)
-----
dparity switch1:15.45 0a 2 13 FC:B 1 FCAL 15000 560000/1146880000 560879/1148
parity switch1:11.29 0a 1 13 FC:B 1 FCAL 15000 560000/1146880000 560208/11473
data switch2:14.74 0c 4 10 FC:A 1 FCAL 15000 560000/1146880000 560879/1148681

```

You are provided output from the `sysconfig -a` and `sysconfig ?r` commands of a MetroCluster cluster for disk switch1:15.45 SN#J9YG1U3L, as shown in the exhibit. Which two statements are true in this scenario? (Choose two.)

- A. The disk is located at the file2 site.
- B. The disk is located in switch3.
- C. The disk is located at the file3 site.
- D. The disk is in shelf 2 bay 13.

Correct Answer: CD

QUESTION 3

You are creating a disk-partitioned root aggregate.

Which two rules are enforced automatically when accomplishing this task? (Choose two.)

- A. A RAID group cannot have more than one partition from the same disk.
- B. A RAID group can have more than one partition from the same disk.
- C. The only supported RAID type for aggregates containing root-data partitioned disks is RAID-DP.
- D. The only supported RAID type for aggregates containing root-data partitioned disks is RAID 4

Correct Answer: AC



QUESTION 4

Click the Exhibit tab.



```
===== SYSCONFIG-A =====
NetApp Release 8.2.1 Cluster-Mode: Fri Mar 21 14:48:58 PDT 2014
System ID: 654321 (filer12); partner ID: 234567 (filer11)
System Serial Number: 111111111 (filer12)
System Storage Configuration: Multi-Path HA
System ACP Connectivity: Full Connectivity
slot 0: System Board 2.0 GHz (System Board XX B3)
Model Name: FAS8020
Service Processor Status: Online
Firmware Version: 3.0
```

```
Before the event:
===== ENVIRONMENT =====
Channel: 0b
Shelf: 20
SES device path: local access: lb.20.99
Module type: IOM6; monitoring is active
Shelf status: critical condition
SES Configuration, shelf 20:
logical identifier=0x500a09800355b174
vendor identification=NETAPP
product identification=DS2246
product revision level=0162
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, 2; with error: none
Power Supply information by element:
[1] Serial number: KXT134600052 Part number: 114-00065+A2
Type: 9C
Firmware version: 020F Swaps: 0
[2] Serial number: KXT134699988 Part number: 114-00065+A2
Type: 9C
Firmware version: 020F Swaps: 0
Voltage Sensor installed element list: 1, 2, 3, 4; with error: none
Shelf voltages by element:
[1] 5.00 Volts Normal voltage range
[2] 12.04 Volts Normal voltage range
[3] 5.00 Volts Normal voltage range
[4] 12.04 Volts Normal voltage range
Current Sensor installed element list: 1, 2, 3, 4; with error: none
Shelf currents by element:
[1] 6440 mA Normal current range
[2] 0 mA Normal current range
[3] 7220 mA Normal current range
```

```
[4] 0 mA Normal current range
Cooling Unit installed element list: 1, 2, 3, 4; with error: 1, 2, 3, 4
Cooling Units by element:
[1] 8000 RPM
[2] 8000 RPM
[3] 8000 RPM
[4] 8020 RPM
Temperature Sensor installed element list: 1, 2, 3, 4, 5, 6, 7, 8; with error: none
Shelf temperatures by element:
[1] 18 C (64 F) (ambient) Normal temperature range
[2] 21 C (69 F) Normal temperature range
[3] 20 C (68 F) Normal temperature range
[4] 42 C (107 F) Normal temperature range
[5] 13 C (56 F) Normal temperature range
[6] 41 C (105 F) Normal temperature range
[7] 20 C (68 F) Normal temperature range
[8] 20 C (68 F) Normal temperature range
ES Electronics installed element list: 1, 2; with error: none
ES Electronics reporting element: 1
ES Electronics information by element:
[1] Serial number: 7900483514 Part number: 111-00190+R6
CELD version: 23 Swaps: 0
[2] Serial number: 7900476781 Part number: 111-00190+R6
CELD version: 23 Swaps: 0
ACP installed element list: 1, 2; with error: none
SAS Expander Module installed element list: 1, 2; with error: none
SAS Expander master module: 1
```

```
===== EMS-LOG-FILE.GZ =====
[2] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: ses.status.fanError:critical]: DS2246 (S/N
SHFHU141000633) shelf 20 on channel 1b cooling fan error for Cooling element 1: critical
status. This module is on the rear of the shelf on the lower left power supply.
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: callhome.shlf.fan:EMERGENCY]: Call home for
SHELF COOLING UNIT FAILED
```

```
[3] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: ses.status.fanError:critical]: DS2246 (S/N
SHFHU141000633) shelf 20 on channel 1b cooling fan error for Cooling element 3: critical
status. This module is on the rear of the shelf on the lower left power supply.
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: callhome.shlf.fan:EMERGENCY]: Call home for
SHELF COOLING UNIT FAILED
[3] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: ses.status.fanError:critical]: DS2246 (S/N
SHFHU141000633) shelf 20 on channel 1b cooling fan error for Cooling element 2: critical
status. This module is on the rear of the shelf on the lower right power supply.
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: callhome.shlf.fan:EMERGENCY]: Call home for
SHELF COOLING UNIT FAILED
[3] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: ses.status.fanError:critical]: DS2246 (S/N
SHFHU141000633) shelf 20 on channel 1b cooling fan error for Cooling element 4: critical
status. This module is on the rear of the shelf on the lower right power supply.
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: callhome.shlf.fan:EMERGENCY]: Call home for
SHELF COOLING UNIT FAILED
```

```
After the event:
===== ENVIRONMENT =====
Environment for channel 0b
Number of shelves monitored: 2 enabled: yes
Environmental failure on shelves on this channel? yes
Channel: 0b
Shelf: 20
SES device path: local access: lb.20.99
Module type: IOM6; monitoring is active
Shelf status: normal condition
SES Configuration, shelf 20:
logical identifier=0x500a09800355b174
vendor identification=NETAPP
product identification=DS2246
product revision level=0162
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, 2; with error: none
Power Supply information by element:
[1] Serial number: XXT134600052 Part number: 114-00065+A2
Type: 9C
Firmware version: 020F Swaps: 1
[2] Serial number: XXT134699988 Part number: 114-00065+A2
Type: 9C
Firmware version: 020F Swaps: 0
Voltage Sensor installed element list: 1, 2, 3, 4; with error: none
Shelf voltages by element:
[1] 5.00 Volts Normal voltage range
[2] 12.04 Volts Normal voltage range
[3] 5.00 Volts Normal voltage range
[4] 12.04 Volts Normal voltage range
Current Sensor installed element list: 1, 2, 3, 4; with error: none
Shelf currents by element:
[1] 6710 mA Normal current range
[2] 0 mA Normal current range
[3] 7220 mA Normal current range
[4] 0 mA Normal current range
Cooling Unit installed element list: 1, 2, 3, 4; with error: none
Cooling Units by element:
[1] 0 RPM
[2] 0 RPM
[3] 0 RPM
[4] 0 RPM
```

```
Temperature Sensor installed element list: 1, 2, 3, 4, 5, 6, 7, 8; with error: none
Shelf temperatures by element:
[1] 0 C (32 F) (ambient) Normal temperature range
[2] 0 C (32 F) Normal temperature range
[3] 0 C (32 F) Normal temperature range
[4] 0 C (32 F) Normal temperature range
[5] 0 C (32 F) Normal temperature range
[6] 0 C (32 F) Normal temperature range
[7] 0 C (32 F) Normal temperature range
[8] 0 C (32 F) Normal temperature range
ES Electronics installed element list: 1, 2; with error: none
ES Electronics reporting element: 1
SAS connector attached element list: 1, 2, 3, 4; with error: none
ACP installed element list: 1, 2; with error: none
ACP information by element:
[1] MAC address: 00:A0:98:70:FB:A4
[2] MAC address: 00:A0:98:70:FA:B2
SAS Expander Module installed element list: 1, 2; with error: none
SAS Expander master module: 2
```



Which two steps would you perform to correct the problem shown in the exhibit? (Choose two.)

- A. Reseat the power supplies.
- B. Perform a takeover and giveback.
- C. Replace the shelf chassis.
- D. Reseat the shelf modules.

Correct Answer: BD

QUESTION 5

You receive the AutoSupport message, "CONTROLLER TAKEOVER COMPLETE PANIC" from a FAS3250 controller. You suspect a hardware issue. A core file was written to disk. In this scenario, which two actions would you perform to



obtain more information? (Choose two.)

- A. You turn on "hardware debugging mode" using System Manager.
- B. You collect the core file and upload it to NetApp Global Services (NGS) for analysis.
- C. You boot the failed controller, carry out a giveback, and wait until the issue reoccurs.
- D. You boot the failed controller to maintenance mode and execute the `diag` command.

Correct Answer: AB

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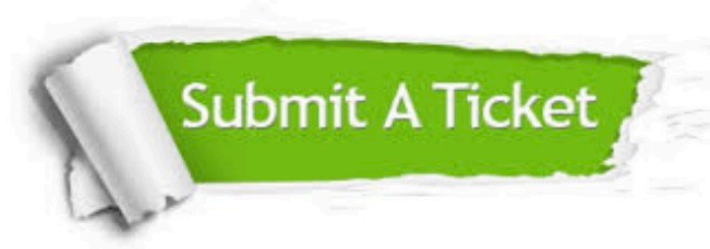
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