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Exam : **NS0-193**

Title : NetApp Certified Support
Engineer

Vendor : Network Appliance

Version : DEMO

NO.1 Click the Exhibit button.

[monitor.brokenDisk.notice:notice]: When a disk is broken, the system shuts down automatically every 24 hours to encourage you to replace the disk. If you reboot the system it will run for another 24 hours before shutting down. (The 24 hour timeout may be increased by altering the raid.timeout value using the options command.)

You receive the AutoSupport message that is shown in the exhibit.

Under which two circumstances would you receive this message? (Choose two.)

- A. There is a single-disk failure in a RAID DP group.
- B. There is a two-disk failure in a RAID DP group.
- C. There is a three-disk failure in a RAID-TEC group.
- D. There is a two-disk failure in a RAID-TEC group.

Answer: A,B

NO.2 Exhibit:

```
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: FA36080
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 GbE
Link Data Rate: 4 Gbit
Switch Port: switch3a1
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 : NETAPE 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
```

```

NetApp Release 8.1.4P7 7-Mode: Fri Nov 21 02:12:14 PST 2014
System ID: 11111111 (filer2); partner ID: 22222222 (filer3)
System Serial Number: 8888888888 (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: switch3a1
switch1:15.44 : NETAPP X292_HVIPCS560F15 NA03 560.0GB 520B/sect (J9YEN49L)
switch1:15.45 : NETAPP X292_HVIPCS560F15 NA03 560.0GB 520B/sect (J9YG1U3L)
switch1:6.80 : NETAPP X292_HVIPCS560F15 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

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
SFP Vendor: FINISAR CORP.
SFP Part Number: FTLF8524E2KNL
SFP Serial Number: PHB1SBF
SFP Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch3:0
I/O base 0x000000000000007000, 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
SFP Vendor: FINISAR CORP.
SFP Part Number: FTLF8524E2KNL
SFP Serial Number: PHB5WSV
SFP Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch4:0
I/O base 0x000000000000007400, size 0x100
memory mapped I/O base 0xfe604000, size 0x4000

===== SYSCONFIG-R =====
RAID group /aggr3/plex1/rg1 (normal, block checksums)

RAID Disk Device HA SHELF BAY CHAN Pool Type RPM Used (MB/blks) Phys (MB/blks)
-----
parity switch1:15.45 0a 2 13 FC:B 1 FCAL 15000 560000/1146880000 560879/1148681096
parity switch1:11.29 0a 1 13 FC:B 1 FCAL 15000 560000/1146880000 560208/1147307688
data switch2:14.74 0c 4 10 FC:A 1 FCAL 15000 560000/1146880000 560879/1148681096

```

You are provided output from the `sysconfig -a` and `sysconfig -r` commands of a MetroCluster cluster for disk switch 1:15.45 SN#J9YG1U3L, as shown in the exhibit.

Which two statements are true in this scenario? (Choose two.)

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

Answer: A,B

NO.3 Which routing protocol is required for virtual IP (VIP) LIFs?

- A. Open Shortest Path First (OSPF)
- B. Intermediate System to Intermediate System (IS-IS)
- C. Border Gateway Protocol (BGP)
- D. Routing Information Protocol (RIP)

Answer: C

NO.4 A client asks you to analyze performance anomalies that the company experienced several days ago. In this scenario, which tool will help you accomplish this task?

- A. OnCommand System Manager
- B. OnCommand Unified Manager
- C. Perfstat
- D. ConfigAdvisor

Answer: C

NO.5 You are setting up a disaster recovery site and have just installed the remote cluster. To communicate between your two locations, you must set up a dedicated network interface on each cluster.

Which role should be used for these interfaces?

- A. intercluster
- B. data
- C. cluster-mgmt
- D. cluster

Answer: B

NO.6 A user on an NFSv4 client is listing a directory and sees the file in an ls -l listing shown below:
"rwr-----1 nobody nobody 10767 Mar 24 2016 party.txt"

The customer would like to know why the user and group shows as "nobody".

Which statement would explain why this is happening?

- A. The file resides on an NTFS style volume.
- B. There is no owner or group set on the file.
- C. There is an NFSv4 ID domain mismatch.
- D. The permissions does not allow for listing the owner.

Answer: D

NO.7 A customer can no longer connect to a data LIF upgrading from ONTAP 9.1 to ONTAP 9.2. A packet trace shows the data LIF is responding to the initial SYN with a SYN/ACK. This SYN/ACK never makes it to the client.

In this scenario, which statement is correct?

- A. ONTAP 9.2 does not have TCP segmentation Offload.
- B. ONTAP 9.2 does not have LACP.
- C. ONTAP 9.2 does not have IP FastPath.
- D. ONTAP 9.2 does not have Large Receive Offload.

Answer: C

NO.8 Which three conditions would prevent a normal giveback operation? (Choose three.)

- A. established CIFS sessions
- B. LUNs mapped with ALUA enabled
- C. ongoing SnapMirror updates
- D. established NFSv3 sessions
- E. presence of failed disks

Answer: A,C,E

NO.9 A customer is installing a new system and has determined that they have a broken disk. What information is required to open a NetApp Support case?

- A. mainboard rev. id
- B. disk HBA firmware and serial number
- C. serial number or system ID
- D. disk shelf serial number and shelf ID number

Answer: C

NO.10 You started work at a company that uses ONTAP for storage. You want to verify that AutoSupport OnDemand is configured. In this scenario, which transport protocol is used?

- A. SMTP
- B. HTTP
- C. FTP
- D. HTTPS

Answer: D

NO.11 You have a 4-node MetroCluster configuration. The systems are operating normally with no faults.

In this scenario, which statement describes the usage of NVRAM when a host sends a write to a node?

- A. Incoming writes are written to the receiving node's NVRAM and its DR partner's NVRAM only.
- B. Incoming writes are written to the all four nodes' NVRAM.
- C. Incoming writes are written to the receiving node's NVRAM and its HA partner's NVRAM only.
- D. Incoming writes are written to the receiving node's NVRAM, its HA partner's NVRAM, and its DR partner's NVRAM only.

Answer: A

NO.12 When troubleshooting an I/O module (IOM), which action should you perform before replacing it?

- A. Reseat the IOM.
- B. Swap IOM-A with IOM-B in the shelf.
- C. Power cycle the shelf.
- D. Reboot the node.

Answer: C