



# NS0-194<sup>Q&As</sup>

NetApp Certified Support Engineer

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### QUESTION 1

What are two conditions that would cause writes in memory to be written to disk? (Choose two.)

- A. The NVRAM (NVLog) fills up.
- B. A user presses "Save".
- C. Drive capacity becomes available.
- D. A Snapshot copy is taken.

Correct Answer: AB Section: (none)

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### QUESTION 2



```
NetApp Release 9.6P3: Sun Sep 22 04:30:45 EDT 2019
System ID: 0537095047 (netapp02n1); partner ID: 0537095086 (netapp02n2)
System Serial Number: 721717000030 (netapp02n1)
System Rev: C3
System Storage Configuration: Quad-Path HA
System ACP Connectivity: Inband Active
All-Flash Optimized: true
Capacity Optimized: false
Backplane Part Number: 111-01459
Backplane Rev: E2
Backplane Serial Number: 021648023564
slot 0: System Board 2.1 GHz (System Board XX C3)
      Model Name:      AFF8040
      Machine Type:    FAS8040
      Part Number:     111-01209
      Revision:        C3
...
slot 0: SAS Host Adapter 0a (PMC-Sierra PM8001 rev. C, SAS, <OFFLINE (hard)>)
Firmware rev:      01.12.09.00
Base WWN:          5:00a098:003a853:10
Phy State:         [0] Disabled
                  [1] Disabled
                  [2] Disabled
                  [3] Disabled
QSFP Vendor:      not available
QSFP Part Number: not available
QSFP Type:        not available
QSFP Serial Number: not available
slot 0: SAS Host Adapter 0b (PMC-Sierra PM8001 rev. C, SAS, <OFFLINE (hard)>)
Firmware rev:      01.12.09.00
Base WWN:          5:00a098:003a853:14
Phy State:         [4] Disabled
                  [5] Disabled
                  [6] Disabled
                  [7] Disabled
QSFP Vendor:      not available
QSFP Part Number: not available
QSFP Type:        not available
QSFP Serial Number: not available
slot 0: SAS Host Adapter 0c (PMC-Sierra PM8001 rev. C, SAS, <OFFLINE (hard)>)
Firmware rev:      01.12.09.00
Base WWN:          5:00a098:003a853:18
Phy State:         [0] Disabled
                  [1] Disabled
                  [2] Disabled
                  [3] Disabled
QSFP Vendor:      not available
QSFP Part Number: not available
QSFP Type:        not available
QSFP Serial Number: not available
slot 0: SAS Host Adapter 0d (PMC-Sierra PM8001 rev. C, SAS, )
Firmware rev:      01.12.09.00
Base WWN:          5:00a098:003a853:1c
Phy State:         [4] Disabled
                  [5] Disabled
                  [6] Disabled
                  [7] Disabled
QSFP Vendor:      not available
QSFP Part Number: not available
QSFP Type:        not available
QSFP Serial Number: not available
...
slot 0: IB Host Adapter i0 (Mellanox ConnectX MT27518 rev. 0)
Running Firmware:  2.11.534
Debug Firmware: No
Interconnect Port 1:
Port Name:         ib0a
Default GUID:      fe80:0000:0000:0000:00a0:9800:0035:3e2c
Base LID:          0xe2c
Active MTU:        4096
Data Rate:         40 Gb/s (4X) QDR
Link State:        ACTIVE
Interconnect Port 2:
Port Name:         ib0b
Default GUID:      fe80:0000:0000:0000:00a0:9800:0035:3e2d
Base LID:          0xe2d
Active MTU:        4096
Data Rate:         40 Gb/s (4X) QDR
Link State:        ACTIVE
```



```
slot 0: Intel USB EHCI Adapter u0a (0x47f20000)
boot0 ATF IG eUSB 0xaf01, class 0/0, rev 2.00/11.00, addr 2 7676MB 512B/sect (devproto=0x00)
slot 1: FCVI Host Adapter 1a (QLogic 8324(2672) rev. 2, F-port)
Physical link: UP
FC Node Name: 21:00:00:0e:1e:e9:bc:70
Firmware rev: 8.01.141
Serial Nc: RFE1709S90753
Host Port Id: 0x80000
FC Packet size: 2048
SFP Vendor: FINISAR CORP.
SFP Part Number: FTLF8529P3BCV-QL
SFP Serial Number: UVF1X7Y
SFP Capabilities: 4, 8 or 16 Gbit
SFP Wavelength: 850nm
Link Data Rate: 16 Gbit
Switch Port: sw02-02:0
Switch Vendor: Brocade Communications, Inc.
Switch Model: 109.1
Switch FW Version: v8.1.2a
slot 1: FCVI Host Adapter 1b (QLogic 8324(2672) rev. 2, F-port)
Physical link: UP
FC Node Name: 21:00:00:0e:1e:e9:bc:71
Firmware rev: 8.01.141
Serial Nc: RFE1709S90753
Host Port Id: 0x70000
FC Packet size: 2048
SFP Vendor: FINISAR CORP.
SFP Part Number: FTLF8529P3BCV-QL
SFP Serial Number: UVF1GCZ
SFP Capabilities: 4, 8 or 16 Gbit
SFP Wavelength: 850nm
Link Data Rate: 16 Gbit
Switch Port: sw02-01:0
Switch Vendor: Brocade Communications, Inc.
Switch Model: 109.1
Switch FW Version: v8.1.2a
slot 3: FC Host Adapter 3a (Emulex XE201 rev. 48, N-port, )
Board name: 111-02451
Serial Number: FC62549991
Firmware rev: 11.4.277.0
Host Port Id: 0x70200
FC Node Name: 2:000:0090fa:e5e2c3
FC Port Name: 1:000:0090fa:e5e2c3
SFP Vendor: EMULEX
SFP Part Number: AFBR-57F5MZ-ELX
SFP Serial Number: AC1612J0A1K
SFP Capabilities: 4, 8 or 16 Gbit
Link Data Rate: 16 Gbit
Switch Port: sw02-01:2
sw01-01:8.126L1 : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (X6N0A01VTODE)
...
sw02-01:8.126L544 : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRTODE)
FC-to-SAS Bridge:
sw02-01:8.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104556
sw01-01:8.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104355
sw02-01:8.shelf60: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:8.shelf61: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:8.shelf80: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:8.shelf81: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:8.shelf20: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:8.shelf21: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:8.shelf40: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:8.shelf41: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
slot 3: FC Host Adapter 3b (Emulex XE201 rev. 48, N-port, <UP>)
```



```
Board name: 111-02451
Serial Number: FC62549991
Firmware rev: 11.4.277.0
Host Port Id: 0x80200
FC Node Name: 2:000:0090fa:e5e2c2
FC Port Name: 1:000:0090fa:e5e2c2
SFP Vendor: EMULEX
SFP Part Number: AFBR-57F5MZ-ELX
SFP Serial Number: AC1612J0A1H
SFP Capabilities: 4, 8 or 16 Gbit
Link Data Rate: 16 Gbit
Switch Port: sw02-02:2
sw01-02:8.126L1 : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (X6N0A01VTODE)
...
sw02-02:8.126L544: NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRTODE)
FC-to-SAS Bridge:
sw02-02:8.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104556
sw01-02:8.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104355

sw02-02:8.shelf60: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:8.shelf61: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:8.shelf80: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:8.shelf81: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:8.shelf20: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:8.shelf21: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:8.shelf40: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:8.shelf41: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
...
slot 4: FC Host Adapter 4a (Emulex XE201 rev. 48, N-port, )
Board name: 111-02451
Serial Number: FC62547357
Firmware rev: 11.4.277.0
Host Port Id: 0x70300
FC Node Name: 2:000:0090fa:e5e52d
FC Port Name: 1:000:0090fa:e5e52d
SFP Vendor: EMULEX
SFP Part Number: AFBR-57F5MZ-ELX
SFP Serial Number: AA1612J0B4T
SFP Capabilities: 4, 8 or 16 Gbit
Link Data Rate: 16 Gbit
Switch Port: sw02-01:3
sw01-01:9.126L27 : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (X6N0A01VTODE)
...
sw02-01:9.126L518: NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRTODE)
FC-to-SAS Bridge:
sw01-01:9.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104551
sw02-01:9.126L0 : ATTO FibreBridge7500N 2.77 FB7500N104550

sw02-01:9.shelf60: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:9.shelf61: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:9.shelf80: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:9.shelf81: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:9.shelf20: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:9.shelf21: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:9.shelf40: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:9.shelf41: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
...
slot 4: FC Host Adapter 4b (Emulex XE201 rev. 48, N-port, )
Board name: 111-02451
Serial Number: FC62547357
Firmware rev: 11.4.277.0
Host Port Id: 0x80300
FC Node Name: 2:000:0090fa:e5e52c
FC Port Name: 1:000:0090fa:e5e52c
SFP Vendor: EMULEX
SFP Part Number: AFBR-57F5MZ-ELX
SFP Serial Number: AA1612J0B43
SFP Capabilities: 4, 8 or 16 Gbit
Link Data Rate: 16 Gbit
Switch Port: sw02-02:3
sw01-02:9.126L27 : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (X6N0A01VTODE)
...
sw02-02:9.126L518: NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRTODE)
FC-to-SAS Bridge:
sw01-02:9.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104551
sw02-02:9.126L0 : ATTO FibreBridge7500N 2.77 FB7500N104550

sw02-02:9.shelf60: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:9.shelf61: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:9.shelf80: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:9.shelf81: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:9.shelf20: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:9.shelf21: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:9.shelf40: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:9.shelf41: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
...
```



Which type of MetroCluster is shown in the exhibit?

- A. 2-node stretch MetroCluster
- B. 4-node MetroCluster IP
- C. 4-node Fabric-Attached MetroCluster
- D. 4-node stretch MetroCluster

Correct Answer: C Section: (none)

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### QUESTION 3

A customer asks what is the correct way to configure an ONTAP system for multi-tenancy. The customer wants to serve data and also protect data using SnapMirror from tenant A using network A and from tenant B using network B.

In this scenario, which statement is correct?

- A. The customer must use different VLANs for the two tenants.
- B. This setup can only work if tenant A and tenant B use a shared network infrastructure.
- C. The customer must set up two different IPspaces for the two tenants.
- D. Each node can only communicate with tenant A or tenant B, but not with both at the same time.

Correct Answer: B Section: (none)

---

### QUESTION 4

A customer has reported an unexplained reboot of an ONTAP node that did not generate a panic string or a core file.

In this scenario, which two sets of logs do you collect to further diagnosis the issue? (Choose two.)

- A. system core
- B. sp status
- C. events all
- D. sp status -d

Correct Answer: AC Section: (none)

---

### QUESTION 5

Source Path Destination Path Relationship ID Relationship Type msgId: msragId:  
78e304e0-9781-1234-abcd-00a098d771bd XDP msxpgId: msraxpgId: 3ca42ab4-9782-1234-abcd-00a098d771bd XDP  
na\_docavgId: ndrdocavgId: a4b233b2-9783-1234-abcd-00a098d771bd XDP na\_dr: ndrdr:  
c97d36a0-6d7c-11e8-83fb-00a098d771bd XDP na\_gId: ndrAgId: 9e7e034d-9782-1234-abcd-00a098d771bd XDP



na\_mpgld: ndrampgld: 16e52e0d-9783-1234-abcd-00a098d771bd XDP na\_opengld: ndraopengld:  
dabb1813-9780-1234-abcd-00a098d771bd XDP na\_poc: ndrapoc: c1d632d7-977b-1234-abcd-00a098d771bd XDP  
na\_pubgld: ndrapubgld: 1a3f866c-9780-1234-abcd-00a098d771bd XDP

Referring to the output, which type of SnapMirror destination relationship is being used?

- A. Single Volume SnapMirror Asynchronous
- B. Single Volume SnapMirror Synchronous
- C. SnapVault
- D. Storage Virtual Machine DR

Correct Answer: A Section: (none)

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