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QUESTION 1

You are asked to replicate 15 of 20 volumes and the network configuration of your storage virtual machine to your other data center.

In this scenario, which NetApp technology should you use?

A. SnapMirror Synchronous

B. SVM DR

C. MetroCluster

D. SVM peering

Correct Answer: A Section: (none)

Reference: https://www.netapp.com/pdf.html?item=/media/19369-tr-4832.pdf

QUESTION 2

Which two statements describe ONTAP NVRAM? (Choose two.)

A. ONTAP NVRAM is used as read cache.

B. ONTAP NVRAM stores uncommitted writes.

C. ONTAP NVRAM is used as write cache.

D. ONTAP NVRAM is battery backed.

Correct Answer: BC Section: (none)

Reference: https://kb.netapp.com/Advice_and_Troubleshooting/Data_Storage_Software/ONTAP_OS/FAQ %3A_Consistency_Point

QUESTION 3

```
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 GID:        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 GID:        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 No:              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 No:              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 (X6N0A01VT0DE)
...
sw02-01:8.126L544  : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRT0DE)
                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 (X6N0A01VT0DE)
...
sw02-02:8.126L544: NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRT0DE)
                  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 (X6N0A01VT0DE)
...
sw02-01:9.126L518: NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRT0DE)
                  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 (X6N0A01VT0DE)
...
sw02-02:9.126L518: NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRT0DE)
                  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)

QUESTION 4

You observe cyclic redundancy check (CRC) errors on a network port from a node in the cluster.

Which two components would you consider reseating or replacing before you perform actions on the physical port where the errors are reported from the node? (Choose two.)

A. SFP

B. cluster interconnect switch

C. up-stream switch

D. cable

Correct Answer: CD Section: (none)

QUESTION 5

A customer must store physical hard copies of transaction data off site to meet regulatory requirements. Which NetApp technology enables the customer to accomplish this task?

A. SnapVault

B. NDMP

C. SVM DR

D. FlexCache

Correct Answer: A Section: (none)

Reference:
https://library.netapp.com/ecmdocs/ECMP1635994/html/GUID-74F9AB84-BF01-4F0F-91977C4D8C3F8002.html

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