

NS0-155^{Q&As}

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QUESTION 1

The two copies SyncMirror volume are called _____, which are physical copies of the same file system and consist of one or more RAID groups.

- A. Snapshot copies
- B. Aggregates
- C. Plexes
- D. Volumes

Correct Answer: C

<https://library.netapp.com/ecmdocs/ECMP1196991/html/GUID-D4D7C7F0-9063-4099-B5CA-8FEE619EEF1D.html>

SyncMirror is a feature of Data OnTap used to mirror data to two separate aggregates. It allows for real-time mirroring of data to matching aggregates physically connected to the same storage system. SyncMirror provides for synchronous

mirroring of data, implemented at the RAID level. You can use SyncMirror to create aggregates that consist of two copies of the same WAFL file system. The two copies, known as plexes, are simultaneously updated. Therefore, the copies

are always identical. The two plexes are directly connected to the same system.

The following provides information about the activities of SyncMirror:

SyncMirror can be used to mirror aggregates and traditional volumes. (A traditional volume is essentially an aggregate with a single volume that spans the entire aggregate.) SyncMirror cannot be used to mirror FlexVol volumes. However,

FlexVol volumes can be mirrored as part of an aggregate.

SyncMirror is different from synchronous SnapMirror.

QUESTION 2

Which two are true when creating a SyncMirror volume? (Choose two.)

- A. The disks selected for Plex 0 and Plex 1 must come from the same disk shelf.
- B. The disks selected for Plex 0 and Plex 1 must come from the same disk pools.
- C. The number of disks added must be an even number and equally divided between the two plexes.
- D. The disks are selected first on the basis of equivalent bytes per sector (bps) size, then on the basis of the size of the disk. If there is no equivalent-sized disk, Data ONTAP takes a larger capacity disk and right-sizes it.

Correct Answer: CD

The rules for the selection of disks or array LUNs, for using as mirrored aggregates, are as follows:

Disks or array LUNs selected for each plex must be in different pools. The same number of disks or array LUNs must be

in both the plexes. Disks are selected first on the basis of equivalent bytes per sector (bps) size, then on the basis of the

size of the disk.

If there is no equivalent-sized disk, Data ONTAP uses a larger-capacity disk, and limits the size to make it identically sized.

Data ONTAP names the plexes of the mirrored aggregate.

<https://library.netapp.com/ecmdocs/ECMP1196991/html/GUID-F5F241AF-50C0-4FF3-8C01-96958581C4D9.html>

QUESTION 3

Which MetroCluster configuration procedure is recommended for re-establishing a mirrored volume that was in a level-0 resynchronization state when it failed?

- A. Determine which volumes are at the remote and disaster sites.
- B. Re-create the synchronous mirror.
- C. Rejoin the two volumes.
- D. Turn on power to the cluster node at the disaster site.

Correct Answer: B

<https://library.netapp.com/ecmdocs/ECMP1210206/html/GUID-A865DB95-9418-4ED2-A993-74F347F674A0.html>

1.

Validate that you can access the remote storage by entering the following command:

```
aggr status -r
```

Note: A (level-0 resync in progress) message indicates that a plex cannot be rejoined.

2.

Turn on the power to the node at the disaster site. After the node at the disaster site boots up, it displays the following:

```
Waiting for giveback...(Press Ctrl-C to abort wait)
```

3.

If the aggregates at the disaster site are online, take them offline by entering the following command for each aggregate that was split:

```
aggr offline disaster_aggr
```

disaster_aggr is the name of the aggregate at the disaster site. Note: An error message appears if the aggregate is already offline.

4.

Destroy every target plex that is in a level-0 resync state by entering the following command:

```
aggr destroy plex_name
```

5.

Re-create the mirrored aggregates by entering the following command for each aggregate that was split:

```
aggr mirror aggr_name -v disaster_aggr
```

aggr_name is the aggregate on the surviving site's node. disaster_aggr is the aggregate on the disaster site's node. The aggr_name aggregate rejoins the disaster_aggr aggregate to reestablish the MetroCluster configuration.

6.

Enter the following command at the partner node:

```
cf giveback
```

The node at the disaster site reboots.

QUESTION 4

To manage SnapVault relationships with an NDMP management application, you must specify a:

- A. directory path
- B. volume and qtree
- C. SnapVault license
- D. username and password

Correct Answer: D

Add a new backup user to the Backup Operators useradmin group list. Enter the following command:

```
useradmin user add backupuser -g "Backup Operators"
```

Generate an NDMP password for the new user. Enter the following command:

```
ndmpd password backupuser
```

The NDMP password is used to authenticate the NetBackup media server to the storage system. This password is required for setup on the NetBackup management station. <https://library.netapp.com/ecmdocs/ECMM1278284/html/>

[onlinebk/5snapv37.htm](https://library.netapp.com/ecmdocs/ECMM1278284/html/onlinebk/5snapv37.htm)

QUESTION 5

What utility on the storage system will allow you to capture network packet information?

- A. Snoop

- B. Netstats
- C. Pktt
- D. Traceroute

Correct Answer: C

The pktt command controls a simple on-filer packet tracing facility. Packets can be captured into a trace buffer then dumped to a file, or the captured data can be logged to a file. The data is stored in "tcpdump" format, and can be directly viewed with tcpdump, ethereal, and perhaps other viewers. The output can also be converted using the editcap(1) program to a variety of other formats, including Sniffer, NetMon, and snoop.

QUESTION 6

What happens when two aggregates are rejoined?

- A. It is not possible to rejoin aggregates.
- B. Data ONTAP will always retain data from the newest aggregate.
- C. Both aggregates revert to the last common snapshot before the split.
- D. You will have a large new aggregate containing all volumes from both aggregates.
- E. One of the aggregates will be overwritten and you will lose any data changed on it after the split.

Correct Answer: E

When you rejoin split aggregates, Data ONTAP mirrors the data from one aggregate to the other and destroys data that existed on that aggregate before the rejoin. <https://library.netapp.com/ecmdocs/ECMP1196991/html/GUID-B9CB3DA8E1AF-4BAC-A85B-64C009010F4A.html>

QUESTION 7

The required hardware to add SyncMirror to an existing system would be _____.

- A. disk shelves and cluster interconnect
- B. disk shelves and termination switches
- C. disk shelves, Ethernet adapters, and cabling
- D. disk shelves, Fibre Channel adapters, and cabling

Correct Answer: D

QUESTION 8

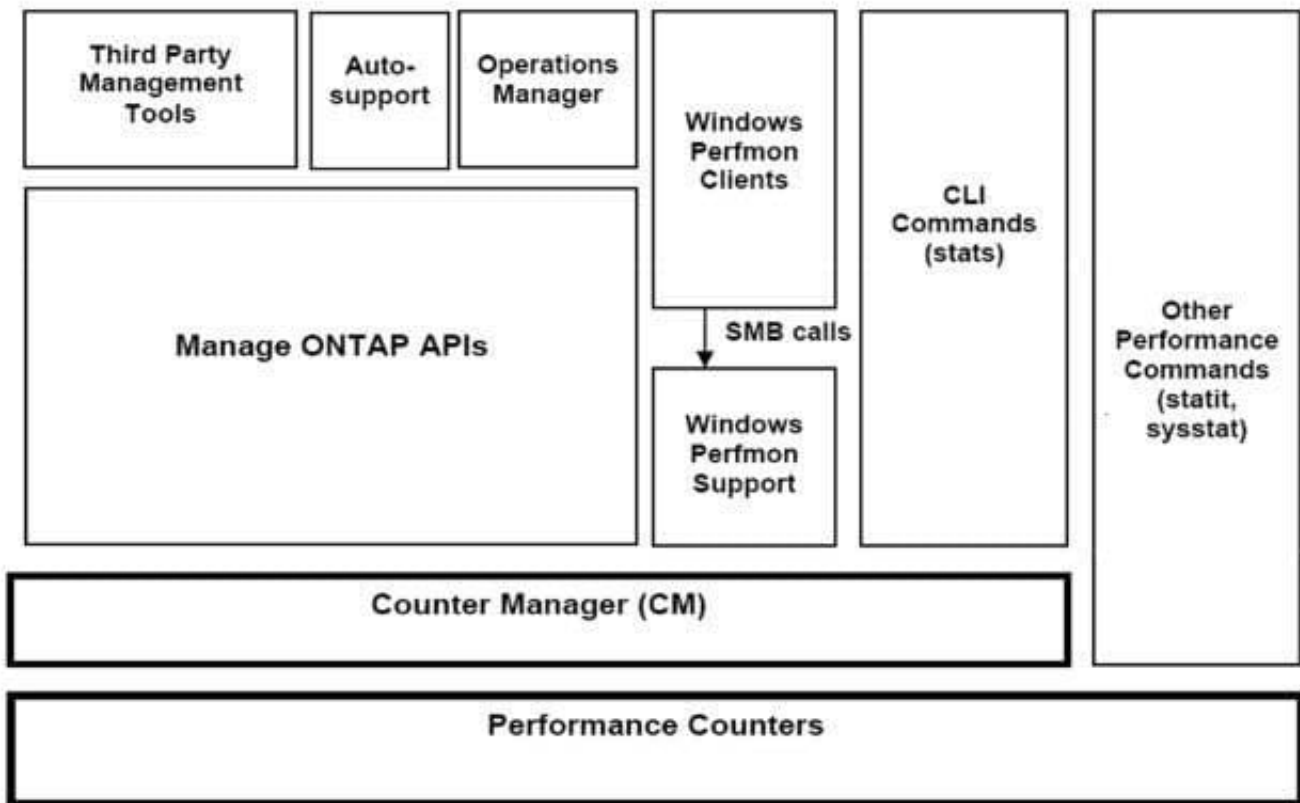
Which three tools present statistics from the Data ONTAP counter manager? (Choose three)

- A. Operations manager
- B. Window perfmon
- C. Sysstat
- D. Stats

Correct Answer: ABD

Section: OnTap Administration

https://library.netapp.com/ecmdocs/ECMP1196890/html/man1/na_stats.1.html <https://communities.netapp.com/servlet/JiveServlet/previewBody/18684-102-5-34635/TR4090PerformanceAdvisorFeatures%26Diagnosis.pdf> <https://communities.netapp.com/groups/chris-kranz-hardware-pro/blog/2009/04/01/performance-stats-withoutperfstat-or-ops-mgr> Note in the diagram below how the performance tools integration with Data OnTap. statit and sysstat interface directly with the performance counters while the other tools - including stats, a command line tool -integrate with the Counter Manager.



QUESTION 9

Which system is recommended as a secondary system for SnapVault?

- A. IS1200

- B. DataFort
- C. NearStore VTL
- D. FAS with NearStore license

Correct Answer: D

QUESTION 10

SnapMirror will automatically try to restart a transfer after _____.

- A. an initial transfer is interrupted
- B. a manual update is interrupted
- C. a transfer interrupted by reboot
- D. a scheduled incremental update is interrupted

Correct Answer: D

If a scheduled transfer fails (for example, due to network failure), SnapMirror automatically retries the transfer the next minute. <http://hd.kvsconsulting.us/netappdoc/733docs/html/ontap/onlinebk/GUID-511EAA86-069A-42E8-B62E-3168C7F0A83D.html>

QUESTION 11

An iSCSI or FC SAN implementation provides _____ access to LUNs.

- A. VLD
- B. VIIP
- C. File
- D. Block

Correct Answer: D

iSCSI and Fiber Channel encapsulate SCSI protocol, simulating direct disk access. These are commonly referred to as a block storage protocols. FCoE is another such protocol. CIFS and NFS, HTTP and FTP provide file access not block access.

QUESTION 12

Data ONTAP 8.0 7-Mode supports SMB 2.0 in Windows Vista and Windows Server 2008.

- A. True
- B. False

Correct Answer: B

<http://www.netapp.com/us/system/pdf-reader.aspx?m=tr-3740.pdf&dcc=us> SMB 2.0 support was included in Data OnTap 8.1.

QUESTION 13

In a fabric-attached MetroCluster, a "site failure" is described as a _____.

- A. failure of the Inter-Switch-Links (ISL)
- B. failure of the interconnect cable
- C. complete failure of the primary controller and disk shelves
- D. malfunction of the Fibre Channel adapter on the cluster node

Correct Answer: C

<http://argoat.net/Blog/?p=1466>

QUESTION 14

Which statement applies to the Open Systems SnapVault Free Space Estimator utility?

- A. This utility runs automatically after each transfer.
- B. This utility must be enabled on the secondary storage system.
- C. This utility determines if there is sufficient disk space available on the primary to perform an OSSV transfer.
- D. This utility determines if there is sufficient disk space available on the secondary to perform an OSSV transfer.

Correct Answer: C

QUESTION 15

Which three are valid LUN commands? (Choose three)

- A. lun clone
- B. lun copy
- C. lun move
- D. lun rename
- E. lun snap

Correct Answer: ACE

https://library.netapp.com/ecmdocs/ECMP1196979/html/man1/na_lun.1.html

The following commands are available in the lun suite:

clone	help	online	share
comment	map	resize	show
config_check	maxsize	serial	snap
create	move	set	stats
destroy	offline	setup	unmap

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