

Using vxassist Snapshot Options (1 of 2)



- Start the creation and synchronization of an additional plex

```
# vxassist -g userdg -b snapstart vol01
```
- To tell when a “snapstart” finishes syncing the new plex.

```
# vxassist -g userdg snapwait vol01
```
- Disassociate that new plex and make a new volume out of it

```
# vxassist -g userdg snapshot vol01 snapshotvol01
```
- Perform a full file system check (if the volume was mounted)

```
# fsck -F vxfs -y -o full \  
/dev/vx/rdisk/userdg/snapshotvol01
```
- Mount the new volume to use for nearly any backup strategy

```
# mkdir /snapvol01  
# mount -F vxfs /dev/vx/dsk/userdg/snapvol01 \  
/snapvol01
```

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Key Points

This procedure assumes that the original volume was mounted and that it contains a vxfs (JFS) file system. If the volume wasn't mounted when this procedure was followed, the fsck isn't necessary.

In a later module you will make snapshot recoveries using the FastResync Option. VxVM Snapshot is a convenient tool for backup strategies.

Use Snapstart to create an additional data plex (mirror) and begin the synchronization process. When this process is complete, use Snapshot to disassociate the plex (mirror) and make an entirely separate volume to use for the backup.

This snapshot is NOT the same as a OnlineJFS snapshot.

Administrators that do not use Snapshot, can manually create a mirror plex, then detach the plex and reattach it to a new volume and do the backup from the new volume. If this is the only mirror, the volume is unmirrored until a new mirror is created.

The “Fast Resync” option greatly reduces the I/O overhead of repeated snapshots (covered later in the course).

Snapshot cannot be used with RAID-5 volumes.

Using vxassist Snapshot Options (2 of 2)



- Unmount the snapshot volume

```
# umount /snapvol01
```
- Reattach the snapshot plex to the original volume and begin resynchronization of the data

```
# vxassist -g userdg -b snapback snapshotvol01
```
- In a normal environment, the customer would cycle back and forth between `vxassist snapshot` and `vxassist snapback`
- To permanently remove the snapshot plex

```
# vxassist -g userdg -b snapabort vol01
```
- To permanently detach a snapshot volume from the original volume

```
# vxassist -g userdg -b snapclear vol01  
# vxassist -g userdg -b snapclear snapshotvol01
```

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Key Points

Removing Volumes with vxedit and vxassist



- To remove a volume with `vxassist remove`

```
# vxassist -g userdg remove volume SampleVol
```
- To remove a volume with `vxedit rm`

```
# /usr/sbin/vxedit -g userdg -rf rm SampleVol
```

 - r means recursively remove objects below the volume
 - f means force the operation

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Key Points

This CLI Top-Down remove operation will fail if the volume is mounted or otherwise busy.

The first example is the command called from the VEA volume remove. The second example yields identical results.