

VERITAS Storage Foundation™ 4.1—Fundamentals Commands

DISK OPERATIONS

Action	Command Line
Initialize a disk	<code>vxdisksetup -i device (CDS disk)</code> <code>vxdisksetup -i device format=sliced (sliced disk)</code>
List disks owned by local and remote hosts	<code>vxdisk -o alldgs list</code>
List disk header	<code>vxdisk list diskname/device</code>
Evacuate a disk	<code>vxevac -g diskgroup from_disk to_disk</code>
Rename a disk	<code>vxedit -g diskgroup rename oldname newname</code>
Set spare, no hot relocation, or reserved space on a disk	<code>vxedit -g diskgroup set {spare nohotuse reserve}=on off diskname</code>
Unrelocate a disk	<code>vxunreloc -g diskgroup original_diskname</code>

DISK GROUP OPERATIONS

Action	Command Line
Create a disk group	<code>vx dg init diskgroup diskname=device</code>
Add a disk to disk group	<code>vx dg -g diskgroup adddisk diskname=device</code>
Remove a disk from disk group	<code>vx dg -g diskgroup rmdisk diskname</code>
Deport, import or destroy a disk group	<code>vx dg {deport import destroy} diskgroup</code>
List disk groups	<code>vx dg list [diskgroup]</code>
Show free/spare space pool	<code>vx dg -g diskgroup {free spare}</code>
Upgrade disk group version	<code>vx dg [-T version] upgrade diskgroup</code>
Rewrite disk headers, configuration copies, and kernel log copies in a disk group.	<code>vx dg flush diskgroup targetdg object...</code> or <code>vx dctl enable (for all disk groups)</code>
Move an object between disk groups	<code>vx dg move sourcedg targetdg object...</code>
Split objects between disk groups	<code>vx dg split sourcedg targetdg object...</code>

Join disk groups	<code>vx dg join sourcedg targetdg</code>
List objects affected by a disk group move operation	<code>vx dg listmove sourcedg targetdg object...</code>
Display bootdg	<code>vx dg bootdg</code>
Display defaultdg	<code>vx dg defaultdg</code>
Set defaultdg	<code>vx dctl defaultdg diskgroup</code>
Manually back up the disk group configuration	<code>vx configbackup diskgroup</code>
Perform precommit analysis of a restore	<code>vx configrestore -p diskgroup</code>
Restore the disk group configuration	<code>vx configrestore -c [-l directory] diskgroup</code>

VOLUME OPERATIONS

Action	Command Line
Create a volume	<code>vx assist -g diskgroup make vol_name size layout=format diskname</code>
Remove a volume	<code>vx edit -g diskgroup -rf rm vol_name</code> or <code>vx assist -g diskgroup remove volume vol_name</code>
Display a volume	<code>vx print -g diskgroup -vt vol_name</code> <code>vx print -g diskgroup -l vol_name</code>
Change volume read policy	<code>vx vol -g diskgroup rdpol round vol_name</code> <code>vx vol -g diskgroup rdpol prefer vol_name preferred_plex_name</code> <code>vx vol -g diskgroup rdpol select vol_name</code>
Mirror an existing plex	<code>vx assist -g diskgroup mirror vol_name</code>
Add a log to a volume	<code>vx assist -g diskgroup addlog vol_name</code>

VOLUME CONFIGURATION OPERATIONS

Action	Command Line
Resize a volume	<code>vxassist -g diskgroup growto vol_name new_length</code>
	<code>vxassist -g diskgroup growby vol_name length_change</code>
	<code>vxassist -g diskgroup shrinkto vol_name new_length</code>
	<code>vxassist -g diskgroup shrinkby vol_name length_change</code>
	<code>vxresize -g diskgroup vol_name [+ -]length</code>
Resize a dynamic LUN	<code>vxdisk -g diskgroup resize disk_name length=attribute</code>

VERITAS FILE SYSTEM ADMINISTRATION

Action	Command Line
Make a VxFS file system	<code>mkfs -F vxfs [generic_options] [-o vxfs_options] char_device [size]</code>
Mount a file system	<code>mount -F vxfs [generic_options] [-o vxfs_options] block_device mount_point</code>
Unmount a file system	<code>umount mount_point</code>
Determine file system type	<code>fstyp [-v] block_device</code>
Report free blocks/inodes	<code>df -F vxfs [-o s] mount_point</code>
Check/repair a file system	<code>fsck -F vxfs [generic_options] [y Y] [n N] character_device</code>
Resize a file system	<code>fasdm [-b newsize] [-r raw_device] mount_point</code>
Upgrade the VxFS layout	<code>vxupgrade [-n new_version] [-r raw_device] mount_point</code>
Display layout version	<code>vxupgrade mount_point</code>
Report on directory fragmentation	<code>fsadm -D mount_point</code>
Report on extent fragmentation	<code>fsadm -E [-l largesize] mount_point</code>
Defragment directories	<code>fsadm -d mount_point</code>
Defragment extents	<code>fsadm -e mount_point</code>
Reorganize a file system to support files > 2GB	<code>fsadm -o largefiles mount_point</code>
Activate file change log	<code>fcladm on mount_point</code>
Resize the intent log	<code>fsadm -F vxfs -o log=size[,logdev=device] mount_point</code>
Change default logging behavior	<code>fsck -F vxfs [generic_options] -o delaylog tmplog nodatainlog blkclear block_device mount_point</code>

POINT-IN-TIME COPIES: STANDARD

Action	Command Line
Create a traditional volume snapshot	<code>vxassist -g diskgroup [-b] snapstart orig</code> <code>vxassist -g diskgroup snapshot origvol</code> <code>snapvol</code>
Display information about traditional volume snapshots	<code>vxassist -g diskgroup snapprint origvol</code>
Reassociate a traditional snapshot	<code>vxassist -g diskgroup [-o</code> <code>resyncfromreplica] snapback snapvol</code>
Dissociate a traditional volume snapshot	<code>vxassist -g diskgroup snapclear snapvol</code>
Create a file system snapshot	<code>mount -F vxfs -o</code> <code>snapof=origfs[,snapsize=size] destination</code> <code>snap_mount_point</code>
Back up a file system snapshot	<code>vxdump [options] [snap_mount_point]</code>
Remove a file system snapshot	<code>umount snap_mount_point</code>