

## Basic VERITAS Volume Replicator™ Commands

### INSTALLATION AND CONFIGURATION

Action	Command Line
Install VVR on both the Primary system and all Secondary systems	<code>pkgadd -d VRTSvras VRTSvrdoc</code>
Add a license on all systems	<code>vxlicense -c</code>
Configure a network connection between the Primary and Secondary	<code>/etc/hostname.device</code> <code>/etc/hosts</code>
Create identical kernel memory parameters on the Primary and Secondary	<code>vi /etc/system</code> <code>* start kernal memory for vvr32</code> <code>set vxio:voliomem_maxpool_sz=</code> <code>set vxio:vol_min_lowmem_sz=</code> <code>set vxio:vol_max_rdback_sz=</code> <code>set vxio:vol_max_nmpool_sz=</code>
Start the daemons	<code>/etc/rc2.d/S94vxnm-host_infod</code> <code>/etc/rc2.d/S94vxnm-vxnetd</code>
Examine VVR memory	<code>pkgadd -d . VRTSspt</code> <code>/opt/VRTSspt/VVR/vvrmemstat</code>

### CONSTRUCTING AN RVG

Action	Command Line
Create an RVG	<code>vxassist -g diskgroup remove log volume</code> <code>vxassist -g diskgroup addlog volume logtype=dcn</code>
Create an SRL Volume	<code>vxassist -g diskgroup make srl 500m</code>
Create a Primary RVG	<code>vradmin -g diskgroup createpri rvg volume srl</code>
Create Secondary RVG and RLINK	<code>vradmin -g diskgroup addsec rvg sysB-priv sysA-priv prlink=to_sysA srlink=to_sysB</code>
Set replication parameters on both the Primary and Secondary	<code>vxedit -g diskgroup set srlprot=dcn to_sysA</code> <code>vxedit -g diskgroup set latencyprot=off to_sysA</code> <code>vxedit -g diskgroup set synchronous=off to_sysA</code>
Set spare, no hot relocation use, or set reserved space on a disk	<code>vxedit -g diskgroup set {spare nohotuse reserve}=on off diskname</code>
Resize a data volume	<code>vradmin -g diskgroup resizevol rvg volume 200m</code>

### STATUS AND VERIFICATION

Action	Command Line
Display the number of blocks being replicated	<code>vxrlink -i 3 stats to_sysA</code>
Determine whether asynchronous replication is current	<code>vxrlink -g diskgroup status to_sysA</code>
List all RLINKS and replication parameters	<code>vxprint -Pl</code>
Lists all RVGs	<code>vxprint -Vl</code>
List volumes within an RVG	<code>vradmin printvol</code>
List Replicated Data Set (RDS) configuration	<code>vradmin -l printrvg</code>

### REMOVING AN RVG

Action	Command Line
Detach RLINKS on the Primary and the Secondary	<code>vxrlink -g diskgroup det to_sysA</code> <code>vxrlink -g diskgroup det to_sysB</code>
Stop an RVG on the Primary and the Secondary	<code>vxrvg -g diskgroup stop rvg</code>
Disassociate data volumes from an RVG	<code>vxvol -g diskgroup dis volume</code> <code>vxvol -g diskgroup dis srl</code>
Remove the RVG and SRL on a Primary and Secondary	<code>vxedit -g diskgroup -rf rm rvg</code>