

MegaCli

Check raid card:

```
lspci | grep -i raid
```

Ubuntu/Debian:

```
apt-get install alien  
# Convert to .deb  
alien -k --scripts filename.rpm  
# Install .deb  
dpkg -i filename.deb
```

CentOS/Other:

https://docs.broadcom.com/docs-and-downloads/raid-controllers/raid-controllers-common-files/8-07-14_MegaCLI.zip

Clear all config

```
-CfgLdDel -Lall -aAll  
-CfgClr -aAll
```

Physical drive information

```
-PDList -aALL  
-PDInfo -PhysDrv [E:S] -aALL
```

Virtual drive information

```
-LDInfo -Lall -aALL
```

Enclosure information.

```
-EncInfo -aALL
```

Set physical drive state to online

```
-PDOnline -PhysDrv[E:S] -aALL
```

Stop Rebuild manually on the drive

```
-PDRbld -Stop -PhysDrv[E:S] -aALL
```

Show rebuild progress

```
-PDRbld -ShowProg -PhysDrv[E:S] -aALL
```

View dead disks (offline or missing)

```
-ldpdinfo -aall |grep -i "firmware state\|slot"
```

View new disks

```
-pdlist -aall |grep -i "firmware\|unconfigured\|slot"
```

Create raid 1:

```
-CfgLdAdd -r1 [E:S, E:S] -aN
```

Create raid 0:

```
-CfgLdAdd -r0 [E:S, E:S] -aN
```

Init ALL VDs

```
-LDInit -Start -LALL -a0
```

Init 1 VD

```
-LDInit -Start -L[VD_ID] -a0
```

clearcache

```
-DiscardPreservedCache -L3 -aN (3 being the VD number)
```

Check FW

```
-AdpAllInfo -aALL | grep 'FW Package Build'
```

Flash FW

```
-AdpFwFlash -f <Your rom file> -a0
```

Flash FW to older version

```
-adpflash -f $ROMFILE -noverchk -a0
```

Check BBU

```
-AdpBbuCmd -a0
```

Flash LED on HDD

```
-PdLocate -start -physdrv[E:S] -aALL  
-PdLocate -stop -physdrv[E:S] -aALL
```

Scan Foreign

```
-CfgForeign -Scan -a0
```

Import Foreign

```
-cfgforeign -import -a0
```

Bad to Good

```
MegaCli -PDMakeGood -PhysDrv[E:S] -aN
```

Disable auto rebuild

```
-AdpAutoRbld -Dsbl -a0
```

Enable auto rebuild

```
-AdpAutoRbld -Enbl -a0
```

Check BBU

```
-AdpBbuCmd -a0
```

JBOD

Figure out the Enclosure Device ID

```
-PDList -a0 | grep -e '^Enclosure Device ID:' | head -1 | cut -f2- -d':' | xargs
```

Set all the drives to "Good"

```
-PDMakeGood -PhysDrv[$id:1,$id:2,$id:3,$id:4,$id:5,$id:6,$id:7,$id:8] -Force -a0
```

Check and see if JBOD support is enabled

```
AdpGetProp EnableJBOD -aALL
```

Turn JBOD support on

```
AdpSetProp EnableJBOD 1 -a0
```

Set each disk from above to be in JBOD mode

```
-PDMakeJBOD -PhysDrv[$id:1,$id:2,$id:3,$id:4,$id:5,$id:6,$id:7,$id:8] -a0
```

The syntax for checking a disk within a MegaRAID based controller is as follows via CLI:

This shows the "Device ID: X", Replace n with the Device ID

```
-LdPdInfo -a0 | grep Id
```

```
smartctl -a -d sat+megaraid,n /dev/sg0
```

Disk missing - No automatically rebuilding

```
-PdReplaceMissing -PhysDrv [E:S] -ArrayN -rowN -aN  
-PDRbld -Start -PhysDrv [E:S] -aN
```

For more see here: <https://www.broadcom.com/support/knowledgebase/1211161498596/megacli-cheat-sheet--live-examples>

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