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Converting a Live Working Xen (dom0) to RAID 1

Create RAID 1 with current Live disk Missing

```
cfdisk /dev/sda  
sda2 = 34850.52
```

```
cfdisk /dev/sdb  
create new primary partition - fs type - linux raid autodetect
```

```
apt-get install mdadm  
#mdadm --create /dev/md0 --level 1 --raid-devices=2 missing /dev/sdb1 --auto  
#it doesnt want the --auto anymore.  
mdadm --create /dev/md0 --level 1 --raid-devices=2 missing /dev/sdb1  
mkfs.ext3 /dev/md0
```

Add support for RAID1 into XEN Boot Module

```
vi /etc/initramfs-tools/modules  
//add (or uncomment) the line:  
raid1
```

```
mkinitramfs -o /boot/initrd.img-2.6.16-1-xen-k7 2.6.16-1-xen-k7
```

```
vi /boot/grub/menu.lst  
/dev/md0
```

```
mdadm --examine --scan
```

```
vi /etc/mdadm/mdadm.conf -  
DEVICE /dev/sda1 /dev/sdb1  
ARRAY /dev/md0 level=raid1 num-devices=2 UUID=from examine above
```

```
vi /etc/fstab  
//adjust to reflect  
/dev/md0 / ext3 defaults 0 0
```

Mount New RAID 1 and Copy over all File from Live System

```
mount /dev/md0 /mnt  
cp -dpRx / /mnt
```

Reboot into RAID 1

- Check grub is updated.

```
reboot
```

When the system boots up off /dev/md0 (really its only /dev/sdb1 yet), add /dev/sda2 into the raid1:

```
mdadm /dev/md0 --add /dev/sda2
```

Make sure that /etc/mdadm/mdadm.conf reads correctly.

I didnt install grub onto both hard disks. This can be done via rescue system/cd or whenever the harddisk goes and if the system remains up.

- For info on managing mdadm etc. please consult the main wiki here at:
[Base Install of Debian Sarge with RAID.](#)

Misc Stuff on Grub:

```
grub-install --recheck /dev/sdb
```

More info at:

<http://64.233.183.104/search?q=cache:RXj3YD0vHIUJ:alioth.debian.org/download.php/668/rootraiddoc.97.html+raid1+m>

<http://www.debian-administration.org/articles/238>