

# Install Raid1

## Hardware configuration

- MB : ASUS M2N32 Workstation Professional
- CPU: Athlon 64 X2 5600+
- HD : 2xWD 74GB Raptor, 2xSamsung 2TB, 2xSamsung 1TB
- RAM: 4 GB DDR2-6400
- Usage: Server

## Desired configuration of the disks

hdd	partition	raid1	lvm	mount point
sda	sda1	md4	-	/
sdb	sdb1	md4		
sda	sda3	md1	-	swap
sdb	sdb3	md1		
sda	sda2	md3	-	-
sdb	sdb2	md3		
sdc	sdc1	md5	vg1, lv1, lv2	/home, /srv
sdd	sdd1	md5		
sde	sde1	md2	vg2, lv3	/backup
sdf	sdf1	md2	vg2, lv3	/backup

md3 is the previous system partition, not mounted. To be used when upgrading the operating system.

## Install Base

1. Install Kubuntu Edgy (6.10) Alternate Install: F6-F6-Expert Mode
2. Install Ubuntu Hardy (8.04) Alternate Install: F6-F6-Expert Mode
3. Install Raid1 with MD package activated
4. DO NOT install LVM during initial setup
5. Boot into KDE from HD

- Note: if MD oder LVM already activated before and need clean: 2nd shell (Alt-F2) > mdadm - -manage - -stop md0 > mdadm - -manage - -remove md0 before writing to disk in partitioner

## Check wether all volumes get mounted during system boot

to check wether root and swap are mounted, enter:

```
mount
free -m -t
```

to check mismatching uuid's, enter:

```
ls -la /dev/disk/by-uuid  
cat /etc/fstab
```

to fix, do:

```
vim /etc/fstab
```

replace the uuid's found in fstab with the ones found in /dev/disk. Make sure you copy the correct uuid (md0, md1) to the respective entry in fstab.

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