

## Abstract

Here are some brief notes about a basic arch linux installation. These notes are to be read together with the installation guide, and they reflect my *personal* preferences.

## 1 Partition

I create 4 partitions:

1. root partition (about 25G),
2. boot partition (200M),
3. swap partition (about twice the ram), and
4. home partition (rest of memory).

**Caution!** Use primary partition for 4th partition, not extended.

After that, format and **mount** the partitions

```
mkswap /dev/sda3
swapoff /dev/sda3
mkfs.ext4 /dev/sda1
mkfs.ext4 /dev/sda2
mkfs.ext4 /dev/sda4
mount /dev/sda1 /mnt
mkdir /mnt/home
mkdir /mnt/boot
mount /dev/sda2 /mnt/boot
mount /dev/sda4 /mnt/home
```

Choose a couple close mirrors and pacstrap only base to save time. After change root, install reflector, generate mirrorlist by

```
reflector --verbose --latest 20 --protocol https --sort rate --save /etc/pacman.d/mirrorlist
```

and install base-devel, vim, git, networkmanager, grub.

Change kernel to lts (keep the linux kernel as a backup) and install headers:

```
pacman -S linux-headers linux-lts linux-lts-headers grub-mkconfig -o /boot/grub/grub.cfg reboot
```

## 2 Network manager

To avoid manually configuring networks after reboot, install nm:

```
pacman -S networkmanager
```

and enable it:

```
systemctl enable NetworkManager
```

After reboot internet works out of the box.

## 3 User add

Add a new user

```
useradd -m -g wheel myname
```

and give him root privileges by running visudo and uncommenting wheel group (I use NOPASSWD option).

## 4 Prettify console

Install terminus fonts:

```
pacman -S terminus-font
```

To use terminus fonts in console do:

```
echo "FONT=ter-114n" >> /etc/vconsole.conf
```

## 5 Changing default shell

Zsh is a much more powerful shell than bash. To list all installed shells, run:

```
$ chsh -l
```

and to set one as default for your user do:

```
$ chsh -s full-path-to-shell
```

where full-path-to-shell is the full path as given by `chsh -l`.

If you now log out and log in again, you will be greeted by the other shell.