Arch install guide

Terminology

Vim , "A text editor, you can use yours"

{drive_name} , "The name of the hard drive as shown by the lsblk command"

{partition_name}, "consists of the {drive_name} followed by a ('p') +number, see lsblk"

before start

- arch USB
- internet cable

Start

Check internet with

```
ping duckduckgo.com
```

Set Clock with

```
timedatectl set-ntp true
```

Partitioning the drive

The drive should be partitions as followed for and ideal setup

```
/Boot   200M    ext4
/       25G     ext4
/home   rest    ext4
[SWAP]  1,5*RAM size
```

To do this we will use fdisk

```
fdisk /dev/{drive_name}
```

NOTE: replace {drive_name} with your own hard drive name, this can be found with the lsblk command

Make the file systems

For ext4 we use:

```
mkfs.ext4 /dev/{partition_name}
```

For the swap partition:

```
mkswap /dev/{partition_name}
swapon /dev/{partition_name}
```

Mounting the partitions

```
mount {root_pratition_name} /mnt
mkdir /mnt/home
mkdir /mnt/boot
mount {boot_partitions_name} /mnt/boot
mount {homo_partition_name} /mnt/home
```

Installing Arch

```
pacstrap /mnt base base-devel vim
```

Configuring Arch

Generate the fstab

```
genfstab -U /mnt >> /mnt/etc/fstab
```

Change root to the new install

```
arch-chroot /mnt
```

It is recommended that you check your fstab at this point

```
vim /etc/fstab
```

If anything is wrong with it user the 'exit' command and clean the file, then repeat the gen fstab step

Install NetworkManager and grub

```
pacman -S networkmanager
systemctl enable NetworkManager
pacman -S grub
grub-install /dev/{drive_name}
grub-mkconfig -o /boot/grub/grub.cfg
```

Set the root user password

```
passwd
```

Setting locale

Un-comment corresponding lines in the locale.gen file

```
vim /etc/locale.gen
locale-gen
```

Set the LANG variable in the following file

```
vim /etc/locale.conf
```

Ex. LANG=en_US.UTF-8

Set the time zone

```
ls -sf /usr/share/zoneinfo/Europe/Amsterdam /etc/localtime
```

Setting the host name

Set the host name (the name after the @ in the console) **This should be a single word**

```
vim /ect/hostname
```

Finishing up

We are done configuring arch we can now exit the installation and unmount the drives

```
exit
umount -R /mnt
reboot
```

congrats you sould now have a fresh arch install and a succesfull boot

After a minimal install

Note that at this point you could use larbs see larbs.xyz

Users and Groups

Add a User

```
useradd -m -g wheel {name}
```

-m : creates the /home/{name} dir -G : addes the group wheel to the user

Set a password

```
passwd {name}
```

Extras:

```
useradd, userdel ,groupadd, groupdel ect.
```

Sudo Access

```
vim /etc/sudoers
```

DM /WM Graphical environment setup