ALIH - Arch Linux Install Helper

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## Configuring and installing Arch Linux

1. Set keyboard layout (layout are usually found at /usr/share/kbd/keymaps/i386/qwerty/\$LAYOUT.map.gz):

```
# loadkeys YOUR-LAYOUT
```

- Brazilian layout: br-abnt2
- 2. Connect with a wireless connection with wifi-menu obsfuscating password:

```
# wifi-menu -o
```

3. Ping an URL to test connection:

```
# ping -c 3 google.com
```

4. Turn on time syncronization with the internet, set timezone and check time (timezones can be fount with list-timezones command):

```
# timedatectl set-ntp true
# timedatectl set-timezone YOUR-TIMEZONE
# timedatectl status
```

- Brazil capital timezone: America/Sao\_Paulo
- 5. Check, choose, format and mount root partition on /mnt (x being the number of your partition):

```
# lsblk
# mkfs.ext4 /dev/sdaX
# mount /dev/sdaX/ /mnt
```

6. (UEFI only) Create directories for mounting EFI partition:

```
# mkdir /mnt/boot
# mkdir /mnt/boot/efi
```

7. (Optional) Create directory for home partition (separated from root, if wanted) and mount it (check it with lsblk):

```
# mkdir /mnt/home
# mount /dev/sdaX /mnt/home
```

8. (UEFI only) Mount EFI partition:

```
9. Update database files and install reflector:
10. Run reflector to get the fastest, recently synchronized servers in the last hour from your country from MirrorStatus:
11. Install Arch base packages with pacstrap:
12. Generate fstab with your near-to-be working partition and check it for errors:
13. Change root to /mnt:
14. Set time zone (the same as step 4):
 • Brazil capital timezone: /zoneinfo/America/Sao_Paulo
15. Set the hardware clock to the system time:
16. Open /etc/locale.gen and uncomment needed locales `eu_US.UTF-8 UTF-8 and/or (and other needed locales), save and quit,
   then generate them
 • Brazilian user: pt_BR.UTF-8 UTF-8
 • American user: eu_US.UTF-8 UTF-8
17. Create hostname file and put a chosen hostname in it:
```

```
18. Open /etc/hosts and insert the 3 lines below (without quotes), then save and quit:
Control+S, Control+X
  19. Recreate the initramfs image:
  20. Set root password:
   1. Install grub, efibootmgr, sudo, wpa_supplicant, ifplugd and dialog (tree, git, mc, tcl and tk are not essential):
  22. Install microcode for AMD OR Intel processor:
OR
  23. (UEFI only) Install grub on EFI partition (UEFI boot):
  24. (Legacy Boot only) Install grub on the same device as the root partition (X being the letter of your device):
  25. Create grub directory (if it wasn't created automatically) and generate grub.cfg:
  26. Add an user and a password for the create account:
```

```
# useradd -m YOUR-USERNAME
# passwd YOUR-PASSWORD
```

27. Add that user to some important groups:

```
# usermod -aG adm,wheel,sys,users,lp,network,power YOUR-USERNAME
```

28. (Optional) Change default CLI text editor to nano:

```
# export EDITOR="nano"
```

29. Enter visudo command and uncomment the line below to give sudo acess to created user and save it:

```
#%wheel ALL=(ALL) ALL
```

Control+S, Control+X

30. Exit chroot environment:

```
# exit
```

31. Unmount all mounted devices recursively:

```
# umount -R /mnt
```

32. Reboot to finish installation:

```
# reboot
```

## After first reboot

33. Enter user login credentials at tty:

```
YOUR-HOSTNAME login: YOUR-USERNAME
Password: YOUR-PASSWORD
```

34. Make keyboard layout persistent (if the choice was any but US):

```
# localectl set-keymap --no-convert YOUR-LAYOUT
```

• Brazilian layout: br-abnt2

TO BE CONTINUED...