**Arches (UEFI)**

**FIRST NETWORK SETUP**

**IWD**

| $ iwctl [iwd]# device list [iwd]# station name scan [iwd]# station name get-networks [iwd]# station name connect SSID |
| --- |

**Alternatively**

| $ iwctl --passphrase passphrase station name connect SSID |
| --- |

**PARTITION**

**1.Create 3 partition for *efi, swap,* and *root as file system* (GPT)**

| cfdisk |
| --- |

**/dev/sda1 efi 500MB**

**/dev/sda2 swap 4GB+**

**/dev/sda3 root rest of disk**

**Check bloklist**

| lsblk |
| --- |

**2. Format Partition**

**Root Partition**

| mkfs.ext4 /dev/sda3 |
| --- |

**Boot EFI**

| mkfs.fat -F 32 /dev/sda1 |
| --- |

**Swap**

| mkswap /dev/sda2 |
| --- |

**3. Mounts**

**Root**

| mount /dev/sda3 /mnt |
| --- |

**Boot**

| mkdir -p /mnt/boot/efi |
| --- |

| mount /dev/sda1 /mnt/boot/efi |
| --- |

**Swap**

| swapon /dev/sda2 |
| --- |

**INSTALLATION**

| pacstrap /mnt base linux linux-firmware sof-firmware base-devel grub efibootmgr nano networkmanager |
| --- |

**Additionally, adding intel/amd based CPU with**

| intel-ucode |
| --- |

**Or**

| amd-ucode |
| --- |

**GENERATING FILE SYS TAB**

| genfstab /mnt |
| --- |

**Make it a file**

| genfstab /mnt > /mnt/etc/fstab |
| --- |

**Check it with ‘cat’ command**

| cat /mnt/etc/fstab |
| --- |

**ENTERING INSTALLED SYSTEM**

| arch-chroot /mnt |
| --- |

**SETTING TIMEZONE**

| ln -sf /usr/share/zoneinfo/Asia/Jakarta /etc/localtime |
| --- |

**Run ‘date’ to check**

**Sync system clock**

| hwclock --systohc |
| --- |

**LOCALIZATION**

**Editing file that contain localization**

| nano /etc/locale.gen |
| --- |

**Erase hashtag (#) in front of the locale you need**

**Example:**

| #en\_US.UTF-8 UTF-8 |
| --- |

Write out with **ctrl+o** and exit with **ctrl+x**

**Specify locale**

| nano /etc/locale.conf |
| --- |

**Inside that file type:**

| LANG=en\_US.UTF-8 |
| --- |

Write out with **ctrl+o** and exit with **ctrl+x**

**HOSTNAME SPECIFICATIONS**

**1. Specify Hostname**

| nano /etc/hostname *name* |
| --- |

**Add a password**

| passwd |
| --- |

**2. Adding user**

| useradd -m -G wheel -s /bin/bash *name* |
| --- |

**Adding password for user**

| passwd *name* |
| --- |

**3. Setup sudo**

**In root**

**Edit sudoers file**

| EDITOR=nano visudo |
| --- |

**Uncomment this bar**

| # %wheel ALL=(ALL) ALL |
| --- |

**to**

| %wheel ALL=(ALL) ALL |
| --- |

Write out with **ctrl+o** and exit with **ctrl+x**

**ENABLING CORE SYSTEM SERVICES**

**NETWORK MANAGER**

**In root**

| systemctl enable NetworkManager |
| --- |

**SETUP BOOTLOADER**

**1. Install Grub**

| grub-install /dev/sda |
| --- |

**2. Configure Grub**

| grub-mkconfig -o /boot/grub/grub.cfg |
| --- |

**Exit to root (red/USB)**

| exit |
| --- |

**LAST STEP**

**Unmount Drive**

| umount -a |
| --- |

**Reboot**

| reboot |
| --- |

**POST-INSTALLATION**

**SETTING UP GRAPHICAL ENVIRONTMENT**

**Desktop Environtment KDE Plasma**

| sudo pacman -S plasma sddm |
| --- |

**Terminal emulator and other essentials**

| sudo pacman -S konsole kate firefox |
| --- |

**Enabling sddm**

| sudo systemctl enable --now sddm |
| --- |

**END..**

**FOOTNOTE:** [**WIFI**](https://wiki.archlinux.org/title/NetworkManager)

**List nearby Wi-Fi networks:**

| $ nmcli device wifi list |
| --- |

**Connect to a Wi-Fi network:**

| $ nmcli device wifi connect SSID\_or\_BSSID password password |
| --- |

**Connect to a hidden Wi-Fi network:**

| $ nmcli device wifi connect SSID\_or\_BSSID password password hidden yes |
| --- |

**Connect to a Wi-Fi on the wlan1 interface:**

| $ nmcli device wifi connect SSID\_or\_BSSID password password ifname wlan1 profile\_name |
| --- |

**Disconnect an interface:**

| $ nmcli device disconnect ifname eth0 |
| --- |

**Get a list of connections with their names, UUIDs, types and backing devices:**

| $ nmcli connection show |
| --- |

**Activate a connection (i.e. connect to a network with an existing profile):**

| $ nmcli connection up name\_or\_uuid |
| --- |

**Delete a connection:**

| $ nmcli connection delete name\_or\_uuid |
| --- |

**See a list of network devices and their state:**

| $ nmcli device |
| --- |

**Turn off Wi-Fi:**

| $ nmcli radio wifi off |
| --- |