# Youtube Resource

**Source Title: Arch Linux UEFI step-by-step installation guide**

Youtube Url: <https://www.youtube.com/watch?v=dOXYZ8hKdmc>

# Arch Linux Installation Process On UEFI mode

|  |  |
| --- | --- |
| fdisk -l | list Disk |
| cfdisk < Disk path and name >: | partition disk |
| mkfs.fat -F32 <Disk path and name>: | format partition f32 format |
| mkfs.ext4 <Disk path and name>: | format partition ext4 format |
| mount <Disk path and name 2> /mnt | mount folder in directory 2 |
| mkdir /mnt/home | make directory |
| mount /dev/<Disk path and name 3> /mnt/home | mount folder in directory 3 |
| lsblk | list mounting points |
| pacstrap -i /mnt base base-devel | Install information |
| genfstab –U –p /mnt >>/mnt/etc/fstab | generate fstab file |
| arch-chroot /mnt /bin/bash | go to install system as root user |
| nano /etc/locale.gen | open locale and uncomment en\_US |
| locale-gen | Generate localegen |
| ln –sf /user/share/zoneinfo/Asia/Dhaka /etc/localtime | let locale time zone |
| hwclock –systohc --utc |  |
| echo odduu > /etc/hostname | Set host name |
| nano /etc /hosts | open hosts |
| 127.0.1.1 localhost.localdomain odduu | add the line and save it |
| pacman –S networkmanager | install network manager |
| systemctl enable NetworkManager | enable network manager |
| passwd | add password |
| packman –S grub efibootmgr | install necessary package for user |
| mkdir /boot/efi | Create efi dir |
| mount /dev/ <Disk path and name 1> /boot/efi |  |
| grub-install –target=x86\_64-efi –bootloader-id=GRUB –efi-directory=/boot/efi | install grub |
| grub-mkconfig –o /boot/grub/grub.cfg | create grub.cfg file |

Minimal installation of ISO is Finished Here. We do next steps so that our system boot automatically

|  |  |
| --- | --- |
| mkdir /bot/efi/EFI/BOOT | create BOOT dir |
| cp /boot/efi/EFI/GRUB/grubx64.efi /boot/efi/EFI/BOOT/BOOTX64.EFI | crate BOOTX64.EFI file |
| nano /boot/efi/strutup.nsh | open strutup.nsh |
| bcf boot add 1 fs0:\EFI\GRUB\grubx64.efi “My GRUB bootloader”  exit |  |
| exit | exit chroot account |
| umount –r /mnt | unmount |
| reboot |  |

Now Installation is Completed (:

# Stapes for add User and and Installing graphical User Interface

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| --- | --- |
| -n –g useradd –n –g users –G wheel –s /bin/bash <UserName> | Create new user |
| passwd <UserName> | add password |
| EDITOR=nano visudo  then uncomment the line  %wheel All=(All) All  then save and exit | for giving sudo privilege to new user |
| pacman -S pulseaudio pulseaudio-alsa xorg xorg-xinit xorg-server xfce4 lightdm lightdm-gtk-greeter | necessary installation |
| echo “exec startxfce4” > ~/.xinitrc |  |
| systemctl enable lightdm | To Enable Login Manager |
| startx | To check graphical window works |

# Change Time Zone

|  |  |
| --- | --- |
| Command | Explanation |
| timedatectl | display current status |
| timedatectl set-timezone “Asia/Dhaka” | Set Time Zone |

# Install Network tools

|  |  |
| --- | --- |
| sudo pacman –S net-tools | Install Network tools |

# Install NTP (Network Time Protocol)

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| --- | --- |
| Command | Explanation |
| sudo pacman –S ntp | install ntp |
| sudo systemctl status ntpd | ntp service register status |
| sudo systemctl demon-reload | if service not found then use this command to reload |
| sudo systemctl enable ntpd | Enable ntp |
| sudo systemctl start ntpd | Start ntp |

# Important command

|  |  |
| --- | --- |
| Command | Explanation |
| ip addr show | alternative of ifconfig |
| lsblk | List Disk Block |
| lsusb | List USB |
| sudo fdisk –l | list disk |

Changing permission

|  |  |
| --- | --- |
| chmod |  |
| u , g, o ,u+, u- | User, Group, Other, add permission to user ,remove permission from user |
| w,r,x | write, read, execute |
| -R | recursive (all files and sub directory) |
| sudo chmod –R u+wrx newFolder | Give read, write execute permission for user to newFolder directory and is all files and sub directory |
| sudo chmod –R o-wrx newFolder | Remove read, write execute permission for othr to newFolder directory and is all files and sub directory |