How to install Arch Linux

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iwctl station wlan0 connect <SSID>

1. Connecting to internet (Wi-Fi)

2. Partitioning

cfdisk/fdisk /dev/your_hard_drive

UEFI (GPT): Number Type

Number	Туре	FS	Mount point			
1	EFI System (1)	FAT	/mnt/boot			
2	Linux swap (19)	swap	[SWAP]			
3	Linux filesystem (default)	(default) ext4 /mnt				
Formating partitions: mkfs.fat -F32 /dev/efi Mounting partitions: swapon /dev/swap_partiton						

mkswap /dev/swap mkfs.ext4 /dev/root

mount --mkdir /dev/efi /mnt/boot BIOS:

Mount point

mount /dev/root_partition /mnt

Number

		•							
2	Linux (default)	ext4	/mnt						
GPT:									
Number	Туре	FS	Mount point						
_	D-T-0.0 (1)								

<pre>mkswap /dev/swap_partiton</pre>		swapon /dev	/swap par	titon
Formating par	titions:	Mounting pa	rtitions:	
3	Linux filesystem ((default)	ext4	/mnt
2	Linux swap (19)		swap	[SWAP]
1	BIOS boot (4)		no	no

Installing base system Update keyring (Optional):

pacman -Sy archlinux-keyring

Install base system:

Generating fstab:

hwclock —systohc

arch-chroot /mnt

Installing text editor:

Generating locales: uncomment ``en_US.UTF-8 UTF-8`` or anything you need

micro /etc/locale.gen

Setting up host name: micro /etc/hostname

Setting up hosts: micro /etc/hosts

127.0.0.1 localhost ::1 localhost ::1

127.0.1.1 <hostname>

systemctl enable NetworkManager 6. Setting up sudo & users

Setting up sudo: pacman -S sudo

EDITOR=micro visudo

passwd <username>

uncomment ``%wheel ALL=(ALL:ALL) ALL``

usermod -aG wheel,video,audio,storage,floppy <username> passwd

Install the bootloader:

Entry example:

Arch Linux

title

linux

<password>

sudo reboot

For BIOS: grub-install /dev/your_hard_drive Make GRUB config: grub-mkconfig -o /boot/grub/grub.cfg

For UEFI: grub-install --efi-directory=/boot

Create an entry: micro /boot/loader/entries/arch.conf

/vmlinuz-linux initrd /initramfs-linux.img options root=/dev/root rw

9. Installing sound server PipeWire: sudo pacman -S pipewire-pulse sudo pacman -S pulseaudio

Installing desktop envoriment: sudo pacman -S gnome

Installing desktop envoriment:

sudo pacman -S lightdm-gtk-greeter Enable LightDM:

sudo reboot

sudo pacman -S plasma plasma-wayland-session konsole dolphin gwenview **Enable SDDM:**

sudo reboot

Installing desktop envoriment:

sudo pacman -S lxqt breeze-icons network-manager-applet Installing login manager:

Enable SDDM:

sudo pacman -S sddm

sudo systemctl enable sddm Reboot:

MBR: FS Type Linux swap/Solaris (82) swap

[SWAP]

4. Setting up system

genfstab -U /mnt >> /mnt/etc/fstab Changing root:

pacstrap -K /mnt base linux linux-firmware

Setting up clock: ln -sf /usr/share/zoneinfo/Europe/Kyiv /etc/localtime

pacman -S micro

locale-gen 5. Setting up the network:

hosts example:

Installing NetworkManager: pacman -S networkmanager

Setting up users: useradd -m <username>

GRUB: Download packages: pacman -S grub efibootmgr os-prober

7. Installing boot loader

systemd-boot (UEFI-GPT Only): Install the bootloader: bootctl install

8. Rebooting to system Exit chroot and reboot

Connect to Wi-Fi: sudo nmcli device wifi connect <SSID> password

PulseAudio:

10. Installing Desktop Envoriment

GNOME:

Xfce:

Enable GDM: sudo systemctl enable gdm Reboot:

sudo pacman -S xfce4 xfce4-goodies gvfs gvfs-mtp pavucontrol networkmanager-applet blueman accountsservice Installing login manager:

sudo systemctl enable lightdm Reboot:

KDE Plasma: Installing desktop envoriment:

LXQt:

sudo systemctl enable sddm Reboot:

sudo reboot now