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How to make bootable arch usb

open download folder
sudo dd bs=4M if=arch.iso of=/dev/usb drive partition status=progress conv=fsync

verify boot mode:  ls /sys/firmware/efi/efivars

connect to internet:  ip link

verify connection : ping archlinux.org / 8.8.8.8

for wireless :
iwctl
station interface connect ssid
enter password
or
wpa_supplicant -B -i interface -c <(wpa_passphrase "MYSSID" "passphrase")
ip a
ping -c 5 8.8.8.8 (ctrl+c)

update system clock :  timedatectl set-ntp true

Partition the disks :

cfdisk /dev/diskname (gdisk /dev/disk name to convert mbr to gpt )
1G type EFI, 8G type SWAP, 100G Linux System Partition (root) , Rest Linux System Partition (home)

lsblk

Format Partitions:

mkfs.fat -F 32 /dev/efi_system_partition
mkswap /dev/swap_partition
mkfs.ext4 /dev/root_partition
mkfs.ext4 /dev/home_partition

mount file system :

mount /dev/root_partition /mnt
mkdir -p /mnt/boot/efi
mkdir -p /mnt/home
swapon /dev/swap_partition
mount /dev/efi_system_partition /mnt/boot/efi
mount /dev/home_partition /mnt/home

lsblk (to check drive tree)

install essential packages:

pacstrap /mnt base base-devel linux linux-lts linux-firmware sof-firmware sudo vim grub efibootmgr networkmanager cups cups-pdf bluez bluez-utils alsa-utils xf86-video-intel intel-media-driver vulkan-intel pulseaudio pulseaudio-alsa pulseaudio-jack pavucontrol tlp intel-ucode ntp

configure system :

Fstab:
Generate Fstab: genfstab /mnt
genfstab -U /mnt >> /mnt/etc/fstab
check Fstab : cat /mnt/etc/fstab

Change Root:arch-chroot /mnt

Time Zeone:ln -sf /usr/share/zoneinfo/Region/City /etc/localtime (/Asia/Kolkata)
hwclock --systohc
date

Localization:

vim /etc/locale.gen
uncomment  en_US.UTF-8 UTF-8
wq:
locale-gen

vim /etc/locale.conf
LANG=en_US.UTF-8
wq:

vim /etc/hostname
Arch
wq:

Initramfs: mkinitcpio -P

Set Root Password : passwd

Add New User :
useradd -m -G wheel -s /bin/bash UserName
passwd UserName

Giving Sudo:
EDITOR=vim visudo
uncomment  %wheel ALL=(ALL) ALL
wq:

Install grub:

grub-install /dev/efi drive (sda and not sda1)
grub-mkconfig -o /boot/grub/grub.cfg

Enable services:

systemctl enable NetworkManager
systemctl enable bluetooth.service
systemctl enable cups
systemctl enable cups.socket
systemctl enable tlp.service
systemctl enable systemd-timesyncd.service

exit

umount -a

Reboot

login using user and pass

nmcli device wifi list

sudo nmcli device wifi connect SSID_or_BSSID password password

ping 8.8.8.8

setfont -d (for higher resolution monitors)

Setting up new system :

For Gnome :

sudo pacman -S gnome gnome-tweaks gnome-themes-extra
enter password,enter,enter,enter,yes

sudo systemctl enable gdm
reboot

For i3 :

sudo pacman -S xorg xorg-xinit pacman-contrib i3 dunst demnu rofi picom feh/nitrogen xsettingsd xss-lock polkit polkit-gnome lxappearance-gtk3 kitty nautilus eog gnome-themes-extra gnome-disk-utility gnome-system-monitor file-roller gnome-screenshot evince gedit gvfs gvfs-mtp gvfs-gphoto2 ttf-
font-awesome ttf-ubuntu-font-family noto-fonts noto-fonts-emoji powerline-fonts gnu-free-fonts ttf-bitstream-vera ttf-croscore ttf-dejavu ttf-droid ttf-ibm-plex ttf-liberation papirus-icon-theme acpi acpid iw mesa lm_sensors sysstat python-pip parcellite blueman network-manager-applet grub-
customizer pipewire pipewire-jack/alsa/pulse gpick zvbi mtpfs yad xdotool android-tools ffmpeg ffmpeg4.4 gstreamer gstreamer-vaapi gst-libav gst-plugins-bad/base/good/ugly

More apps :

git firefox mpv vlc gparted ntfs-3g unrar archlinux-wallpaper reflector neofetch marktext eww rofi extension-manager(aur) anaconda python-pip pamac-all dash-to-dock authy libreoffice sublimetext synth-shell(git) autofs jp2a cmatrix cowsay fortune-mod (fortune | cowsay) catfish (xfce4) yay
snapd gimp krita inkscape.

backup mirrors :sudo cp /etc/pacman.d/mirrorlist /etc/pacman.d/mirrorlist.bak

retrieve latest mirrors :sudo reflector -l 20 -a 6 -p https --sort rate --save /etc/pacman.d/mirrorlist

update system : sudo pacman -Syu

How to use aur/git :
cd /tmp
git clone ( the aur/git link)
cd (the git package)
makepkg -si

Enable xinit :

sudo cp /etc/X11/xinit/xinitrc ~/.xinitrc
sudo vim ~/.xinitrc
exec i3

Hibernation :
sudo vim /etc/default/grub
GRUB_CMDLINE_LINUX_DEFAULT="resume=/dev/swap_partition"
sudo grub-mkconfig -o /boot/grub/grub.cfg
sudo vim /etc/mkinitcpio.conf
HOOKS=(base udev resume autodetect modconf block filesystems keyboard fsck)
mkinitcpio -P

Mount ntfs partition :

sudo vim /etc/fstab
/dev/ntfs_part /mnt_point ntfs-3g defaults 0 0

To reset faillock
ctrl+alt+f2/3/4-9
faillock --user username reset

Adb, Fastboot :
install android-tools
download android sdk platform tools
copy contents to /user/lib
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