# **Arch Installation:**

### **Initial Setup**

? iwctl \*for wifi connection if not using a cable
timedatectl set-ntp true
pacman -Syy reflector openssh \*openssh only for using ssh to install
reflector --verbose --latest 100 --sort rate --save /etc/pacman.d/mirrorlist
&& pacman -Syy
passwd <root password>
systemctl start sshd && ip address #use ip address to log in with ssh

### Partitioning:

Isblk
cfdisk /dev/sda (? denotes UEFI specific commands)
\*? create boot partition [sda1] (UEFI Only)
Primary partition [sda2]
linux-swap [sda3]
? mkfs.fat -F 32 /dev/sda1 (UEFI)
mkfs.btrfs -f /dev/sda2 (root)
mkswap /dev/sda3 (swap)
swapon /dev/sda3

#### BTRFS Subvolumes:

mount /dev/sda2 /mnt btrfs su cr /mnt/@ btrfs su cr /mnt/@home btrfs su cr /mnt/@var btrfs su cr /mnt/@srv btrfs su cr /mnt/@opt btrfs su cr /mnt/@tmp umount /mnt

mount -o noatime,compress=lzo,space\_cache,subvol=@/dev/sda2/mnt mkdir/mnt/{boot,home,var,srv,opt,tmp}

mount -o noatime,compress=lzo,space\_cache,subvol=@home /dev/sda2 /mnt/home mount -o noatime,compress=lzo,space\_cache,subvol=@var /dev/sda2 /mnt/var mount -o noatime,compress=lzo,space\_cache,subvol=@srv /dev/sda2 /mnt/srv mount -o noatime,compress=lzo,space\_cache,subvol=@opt /dev/sda2 /mnt/opt mount -o noatime,compress=lzo,space\_cache,subvol=@tmp /dev/sda2 /mnt/tmp ? mount /dev/sda1 /mnt/boot (UEFI) lsblk

#### Base Install:

pacstrap /mnt base base-devel linux-firmware linux-zen nano intel-ucode (or amd-ucode) btrfs-progs reflector genfstab -U /mnt >> /mnt/etc/fstab && cat /mnt/etc/fstab arch-chroot /mnt

### Inside System:

#### Installation:

sudo nano /etc/pacman.conf \* add 'Color' and 'ILoveCandy' @ Options reflector --verbose --latest 100 --sort rate --save /etc/pacman.d/mirrorlist pacman -Syy grub grub-btrfs networkmanager network-manager-applet wpa\_supplicant dialog os-prober mtools dosfstools linux-zen-headers git bluez bluezutils cups xdg-utils xdg-user-dirs zsh xorg plasma sddm dolphin konsole yakuake chromium xf86-video-intel (xf86-video-amdgpu or nvidia nvidia-utils) ? efibootmar

#### **Bootloader:**

nano /etc/mkinitcpio.conf \* change MODULES=(btrfs)
mkinitcpio -p linux-zen
grub-install --target=i386-pc /dev/sda \*drive only (MBR)
? grub-install --target=x86\_64-efi --efi-directory=/dev/sda1 --bootloader-id=GRUB
grub-mkconfig -o /boot/grub/grub.cfg

#### Enable Services & Create User:

systemctl enable NetworkManager systemctl enable bluetooth systemctl enable org.cups.cupsd systemctl enable sddm.service

useradd -mG wheel <user-name> && passwd <user-name> EDITOR=nano visudo \*uncomment %wheel...ALL chsh -s /bin/zsh sudo !! exit umount -a \*remove flash disk

# In The Installed System:

## git clone <a href="https://github.com/baz8ka2th/Arch-Dotfiles">https://github.com/baz8ka2th/Arch-Dotfiles</a>

\*move the contents of Arch-Dotfiles to the home folder, and add . to the beginning of each file (.zshrc; .p10k.zsh; /.aliases/.alias\_main; /.aliases/.alias\_config; /.aliases/.alias\_pacman; /.aliases/.alias\_youtube)

run command **setup** to see options for installing software run **help** to get a list of all the alias commands available ensure you use **install-yay** at least for install aliases to work correctly and allow installing from AUR

go to settings app to customize the Desktop Environment to your preference