

Arch Linux Install

Setting up Internet

- dhcpcd
- use ping to test if internet connection is working

efivars

- modprobe efivarfs

Update system clock

- timedatectl status

fdisk

- fdisk -l finds /dev/sda
- cfdisk /dev/sda and select gpt mode because its compatible with UEFI mode

Format Partitions

*I had problems with the original method so I had to use Linux LVM because it was the only method that would load up my GUI and pass through the boot process this fix took hours to find.

- pvcreate --dataalignment 1m /dev/sda2
- vgcreate volgroup0 /dev/sda2
- lvcreate -L 1GB volgroup0 -n lv_root
- lvcreate -l 100%FREE volgroup0 -n lv_home
- modprobe dm_mod
- vgscan
checks to see if the commands worked properly
- vgchange -ay
- mkfs.ext4 /dev/volgroup0/lv_root
- mkfs.ext4 /dev/volgroup0/lv_home

Mount File Systems

- `mount /dev/volgroup0/lv_root /mnt`
- `mkdir /mnt/home`
- `mount /dev/volgroup0/lv_home /mnt/home`

Installing packages

- `pacstrap -K /mnt base linux linux-firmware`
- `pacman -S nano openssh base-devel`
bc I enjoy nano

Configuring System

- `genfstab -U -p /mnt >> /mnt/etc/fstab`
- `cat /mnt/etc/fstab`
To check the file
- `arch-chroot /mnt`
- `ln -sf /usr/share/zoneinfo/US/Central/Tulsa /etc/localtime`
- `hwclock --systohc`
- `nano /etc/mkinitcpio.conf`
- `mkinitcpio -p linux`

Localization

- `nano /etc/locale.conf`
- Control w to find `US_EN` and delete #
**See I'm using it*

Network Config

- `pacman -S networkmanager`
- `systemctl enable NetworkManager`

Root Password

- `passwd`
my password for root is *rootpasswd*

Setting Basic Interface

- `pacman -S grub efibootmgr dosfstools os-prober mtools`
- `mkdir /boot/efi`
- `mount /dev/sda1 /boot/efi`
- `lsblk`
- `grub-install --target=x86_64-efi --bootloader-id=grub_ufi --recheck`
- `mkdir /boot/EFI`
- `mount /dev/sda1 /boot/EFI`
- `cp /usr/share/locale/en@quot/LC_MESSAGES/grub.mo /boot/grub/locale/en.mo`
- `grub-mkconfig -o /boot/grub/grub.cfg`
- `umount -a`
- `reboot`

Other

`-pacman -S openssh`

`-useradd -m -g users -G wheel cameron`

`-useradd -m -g users -G wheel codi`

`-passwd codi GraceHopper1906`

`-pacman -S sudo`

I edit the sudoers file to remove the # next to the wheel group

I used LXDE as my GUI

`-pacman -S lxde-gtk3`

`-systemctl start lxdm.service`

`-systemctl enable lxdm.service`

`-pacman -S firefox`

I also installed wine to be able to install putty to my virtual machine so it can install .exe files