gdisk /dev/sda

/dev/sda1 ef00 1G /boot

/dev/sda2 8200 2G /swap

/dev/sda3 8300 6G /

/dev/sda4 8e00 11G

/dev/VolGroup00/lvolvar 4G /var

/dev/VolGroup00/lvolhome 4G /home

lvmdiskscan

pvcreate /dev/sda4

vgcreate VolGroup00 /dev/sda4

vgdisplay

lvcreate -L 4G VolGroup00 -n lvolvar

lvcreate -L 4G VolGroup00 -n lvolhome

lvdisplay

mkfs.ext4 /dev/VolGroup00/lvolvar

mkfs.ext4 /dev/VolGroup00/lvolhome

tune2fs -m 10 /dev/VolGroup00/lvolvar

mkfs.fat -F32 /dev/sda1

mkswap /dev/sda2

mkfs.ext4 /dev/sda3

mount /dev/sda3 /mnt

swapon /dev/sda2

mkdir /mnt/boot

mount /dev/sda1 /mnt/boot

mkdir /mnt/var

mount /dev/VolGroup00/lvolvar /mnt/var

mkdir /mnt/home

mount /dev/VolGroup00/lvolhome /mnt/home

lsblk -f

pacstrap /mnt base

~~~~~~~~~~~~init~~~~~~~~~~~~

genfstab -U /mnt >> /mnt/etc/fstab

arch-chroot /mnt

ln -sf /usr/share/zoneinfo/Asia/Taipei /etc/localtime

hwclock --systohc

vi /etc/locale.gen #uncommit en\_US.UTF-8 UTF-8

locale-gen

echo "LANG=en\_US.UTF-8" > /etc/locale.conf

echo "joe59491\_arch" > /etc/hostname

echo "127.0.0.1 joe59491\_arch.localdomain joe59491\_arch" >> /etc/hosts

mkinitcpio -p linux

passwd

~~~~~~~~~before install grub~~~~~~~~

pacman -Syu

pacman -S grub

~~~~~~~~~after pacman grub~~~~~~~~

pacman -S parted

parted /dev/sda print

pacman -S efibootmgr

grub-install --target=x86\_64-efi --efi-directory=/boot --bootloader-id=grub # grub-install 把grub的程式寫入/boot裡面

# --target=x86\_64-efi 將目標設定為 32/64 位元的 EFI 機器

# --efi-directory=/boot 設定 efi directory 的位置

# --bootloader-id=grub 設定 bootloader 的 id 為 grub

# 首先需要先把磁碟的分割區弄成 GPT 格式

# 首先需要先把磁碟的分割區弄成 GPT 格式

# 用EFI開機的話需要先把開機磁區的label設定成ef00(EFI system partition)並且格式化成Fat32

# 然後 UEFI 開機的時候就會去找磁碟中符合上面規定的磁區，然後從裡面開機

~~~~~~~~after grub-install~~~~~~~~~

grub-mkconfig -o /boot/grub/grub.cfg # grub-mkconfig 把啟動的過城中需要config建立好放在/boot/grub/grub.cfg

~~~~~~~~after grub-mkconfig~~~~~~~~~

reboot

#login~

ip link

cp /etc/netctl/examples/ethernet-dhcp /etc/netctl/

vi /etc/netctl/ethernet-dhcp #change eth0 to ens33

netctl list

netctl start ethernet-dhcp

pacman -S vim

~~~~~~~~after connecting to network~~~~~~~~~

df

lvresize -l +256 /dev/VolGroup00/lvolhome #increase 1GB

resize2fs /dev/VolGroup00/lvolhome

df

~~~~~~~~after extend /home~~~~~~~~~

vmware image:

https://csientuedutw-my.sharepoint.com/personal/b05902086\_csie\_ntu\_edu\_tw/\_layouts/15/guestaccess.aspx?docid=0d42ab6b39f3648ab85ce547230cb4dd3&authkey=AfLd\_alGsWNNLIH5BhWzWFE