**Arch Installation**

**# ping google.com (CTRL-c to kill the ping)**

**# timedatectl set-ntp true**

**# timedatectl set-timezone Asia/Jerusalem**

**# timedatectl status**

**Create EFI partition**

**fdisk /dev/sda**

**g (to create an empty GPT partition table)**

**n**

**enter**

**enter**

**+500M**

**t**

**1 (For EFI)**

**Create LVM partition**

**n**

**enter**

**enter**

**enter**

**t**

**enter**

**30**

**Format the EFI partition**

**mkfs.fat -F32 /dev/<DEVICE PARTITION 1> (for example: /dev/sda1)**

**Set up lvm**

**pvcreate /dev/sda2**

**vgcreate vg0 /dev/sda2**

**lvcreate -L 30GB vg0 -n lv\_root**

**lvcreate -l 100%FREE vg0 -n lv\_home**

**partprobe /dev/sda**

**Mount Partition**

**mkfs.ext4 /dev/vg0/lv\_root**

**mkfs.ext4 /dev/vg0/lv\_home**

**mount /dev/vg0/lv\_root /mnt**

**mkdir /mnt/home**

**mount /dev/vg0/lv\_home /mnt/home**

**Create the /etc/fstab file**

**mkdir /mnt/etc**

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

**cat /mnt/etc/fstab**

**Install Arch Linux**

**pacstrap -i /mnt base linux linux-firmware**

**arch-chroot /mnt**

**pacman -S openssh**

**systemctl enable sshd**

**pacman -S networkmanager**

**systemctl enable networkmanager**

**pacman -S nano vim lvm2**

**Edit /etc/mkinitcpio.conf**

**nano /etc/mkinitcpio.conf**

**On the "HOOKS" line, add support for lvm2 and optionally encryption.**

**Add "lvm2" in between "block" and "filesystems"**

**mkinitcpio -p linux**

**Generate the locale**

**nano /etc/locale.gen (uncomment en\_US.UTF-8)**

**locale-gen**

**Set User Configure**

**passwd**

**useradd -m -g users -G wheel yoav**

**passwd yoav**

**pacman -S sudo**

**visudo**

**Uncomment: %wheel ALL=(ALL) ALL**

**Installing GRUB for UEFI**

**pacman -S grub efibootmgr dosfstools os-prober mtools**

**mkdir /boot/EFI**

**mount /dev/sda1 /boot/EFI**

**grub-install --target=x86\_64-efi --bootloader-id=grub\_uefi --efi-directory=/boot/EFI --recheck**

**grub-mkconfig -o /boot/grub/grub.cfg**

**exit**

**reboot**

**Create swap file**

**dd if=/dev/zero of=/swapfile bs=1M count=2048 status=progress**

**chmod 600 /swapfile**

**mkswap /swapfile**

**cp /etc/fstab /etc/fstab.bak**

**echo '/swapfile none swap sw 0 0' | tee -a /etc/fstab**

**free -m**

**swapon -a**

**free -m**

**Set time zone**

**timedatectl**

**timedatectl list-timezones**

**timedatectl set-timezone Asia/Jerusalem**

**systemctl enable systemd-timesyncd**

**Set the hostname**

**hostnamectl set-hostname YoavArch**

**127.0.0.1 localhost**

**127.0.1.1 YoavArch**

**Install Xorg if you plan on having a GUI**

**pacman -S xorg-server xorg-xinit xorg-apps**

**pacman -S open-vm-tools**

**systemctl enable vmtoolsd**

**pacman -S xf86-video-vmware**

**Installing a Desktop Environment**

**pacman -S gdm**

**pacman -S gnome**

**pacman -S gnome-tweaks**

**systemctl enable gdm**

**pacman -S bash-completion**

**adding the following to ~/.bashrc:**

**complete -cf sudo**

**if [ -f /etc/bash\_completion ]; then**

**. /etc/bash\_completion**

**fi**

**# pacman -S xf86-video-vesa**

**# pacman -S sddm/gdm/kdm\*/lxdm/lightdm**

**# pacman -S plasma/gnome/cinnamon/lxde/mate/xfce4**

**# pacman -S kde-applications/gnome-extra/mate-extra/xfce4-goodies**

**Arch Linux Installation Guide (2019)**

<https://www.youtube.com/watch?v=HpskN_jKyhc>

**How to Install a Desktop Environment in Arch Linux**

<https://www.youtube.com/watch?v=P4IV5BYPiPs>