**Gentoo Installation**

parted -a optimal /dev/sda

mklabel gpt

unit mib

mkpart primary 1 5

name 1 grub

set 1 bios\_grub on

mkpart primary 5 505

name 2 boot

mkpart primary 505 4601

name 3 swap

mkpart primary 4601 -1

name 4 rootfs

set 2 boot on

print

quit

mkfs.ext2 /dev/sda2

mkfs.ext4 /dev/sda4

mkswap /dev/sda3

swapon /dev/sda3

mount /dev/sda4 /mnt/gentoo

cd /mnt/gentoo

wget http://distfiles.gentoo.org/releases/amd64/autobuilds/20200122T214502Z/stage3-amd64-20200122T214502Z.tar.xz

tar xpvf stage3-\*.tar.xz --xattrs-include='\*.\*' --numeric-owner

rm stage3-\*.tar.xz

nano -w /mnt/gentoo/etc/portage/make.conf

COMMON\_FLAGS="-march=native -O2 -pipe"

MAKEOPTS="-j5"

VIDEO\_CARDS="vmware vesa"

INPUT\_DEVICES="evdev keyboard mouse synaptics"

mirrorselect -i -o >> /mnt/gentoo/etc/portage/make.conf

mkdir --parents /mnt/gentoo/etc/portage/repos.conf

cp /mnt/gentoo/usr/share/portage/config/repos.conf /mnt/gentoo/etc/portage/repos.conf/gentoo.conf

cp --dereference /etc/resolv.conf /mnt/gentoo/etc/

mount --types proc /proc /mnt/gentoo/proc

mount --rbind /sys /mnt/gentoo/sys

mount --make-rslave /mnt/gentoo/sys

mount --rbind /dev /mnt/gentoo/dev

mount --make-rslave /mnt/gentoo/dev

chroot /mnt/gentoo /bin/bash

source /etc/profile

export PS1="(chroot) ${PS1}"

mount /dev/sda2 /boot

emerge-webrsync

emerge --sync

eselect profile list

eselect profile set 8

nano -w /etc/conf.d/hostname

nano /etc/hosts

127.0.0.1 myhostname.localdomain myhostname

echo "Asia/Jerusalem" > /etc/timezone

emerge --config sys-libs/timezone-data

nano -w /etc/locale.gen

locale-gen

eselect locale list localectl set-keymap us

eselect locale set 4 localectl set-x11-keymap us

env-update && source /etc/profile && export PS1="(chroot) ${PS1}"

nano /etc/fstab

/dev/sda2 /boot ext2 defaults,noatime 0 2

/dev/sda3 none swap sw 0 0

/dev/sda4 / ext4 noatime 0 1

/dev/cdrom /mnt/cdrom auto noauto,user 0 0

emerge -av gentoo-sources linux-firmware genkernel net-misc/dhcpcd

dispatch-conf --> u

emerge -av gentoo-sources linux-firmware genkernel net-misc/dhcpcd

ls -l /usr/src/linux

genkernel all / genkernel --menuconfig all

emerge --ask --verbose --update --deep --newuse @world

dispatch-conf --> u

emerge --info | grep ^USE

emerge --ask --noreplace net-misc/netifrc

nano -w /etc/conf.d/net

config\_eth0="dhcp"

cd /etc/init.d

ln -s net.lo net.eth0

rc-update add net.eth0 default

passwd

emerge --ask bash-completion

**and then you should enable it in your ~/.bashrc configuration file by adding**

**the following:**

**#** bash-completion

complete -cf sudo

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

. /etc/bash\_completion

fi

/etc/init.d/sshd start

rc-update add sshd default

/etc/init.d/dbus start

rc-update add dbus default

useradd -m -G users,wheel,audio,video -s /bin/bash yoav

passwd yoav

emerge --ask app-admin/sudo sys-boot/grub:2

nano /etc/sudoers

mount | grep efivar / mount -o remount,rw /sys/firmware/efi/efivars

grub-install /dev/sda / grub-install --target=x86\_64-efi --efi-directory=/boot/efi

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

touch /etc/udev/rules.d/80-net-name-slot.rules

exit

umount -R /mnt/gentoo swapoff -a

reboot

emerge --ask virtualbox-guest-additions

emerge --ask --autounmask open-vm-tools

dispatch-conf --> u

emerge --ask --autounmask open-vm-tools

rc-update add vmware-tools default

nano ~/.xinitrc

exec ck-launch-session dbus-launch --sh-syntax --exit-with-session startkde

exec gnome-session

startx

nano /etc/conf.d/xdm 🡪 change "xdm" to " sddm,gdm,kdm,lxdm,lightdm"

rc-update add xdm default

emerge --ask kde-plasma/plasma-meta

emerge --ask kde-apps/kwalletmanager

emerge --ask kde-apps/kdecore-meta

emerge --ask gnome gnome-tweaks

emerge --ask gnome-extra/gnome-shell-extension-desktop-icons

nano /etc/portage/package.use/zz-autounmask

emerge -avquDN @world

USE="X systemd gtkmm python"

https://www.youtube.com/watch?v=p06eFgPYjDk&t=389s&ab\_channel=AdrienLinuxtricks

<https://www.youtube.com/watch?v=eS2sKmpkWv8>

etc-update

cd /usr/src/linux

make menuconfig

Gentoo Linux --->

Support for init systems, system and service managers --->

[\*] systemd

| Processor types and features  
|-| [\*] Linux guest support  
  
| Device Drivers  
|-| Misc Devices  
|-|-| <M> VMware Balloon Driver  
|-|-| <M> VMware VMCI Driver  
  
| Networking Support  
|-| Networking Options  
|-|-| <M> Virtual Socket Protocol  
|-|-|-| <M> VMware VMCI Transport for Virtual Sockets