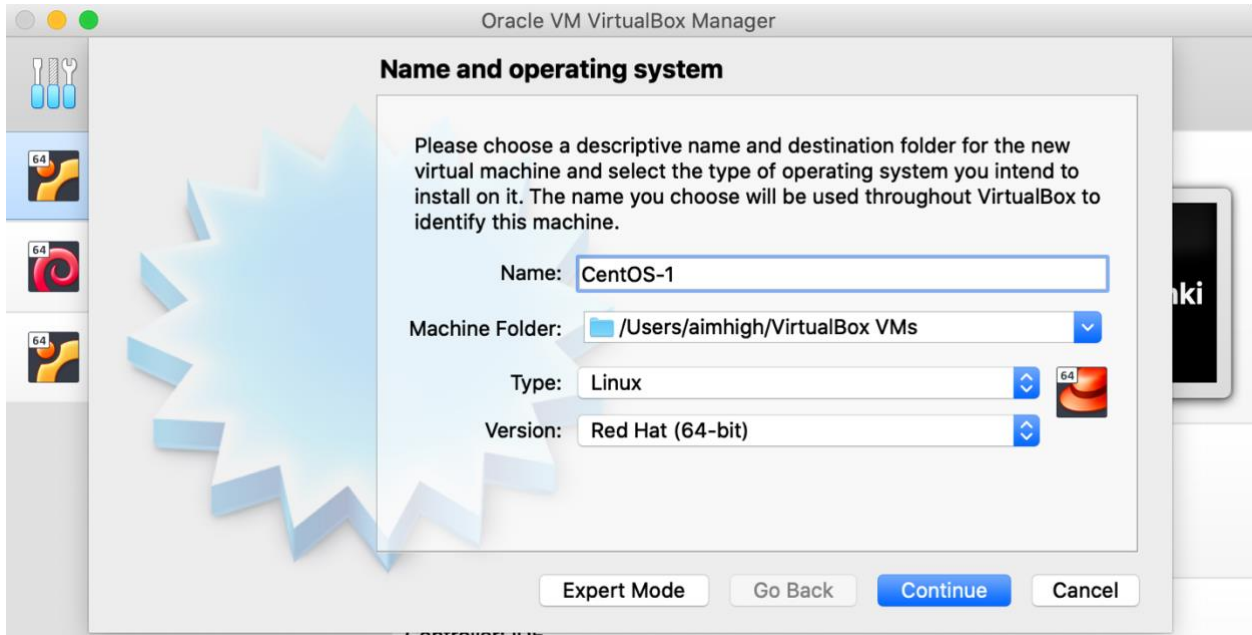
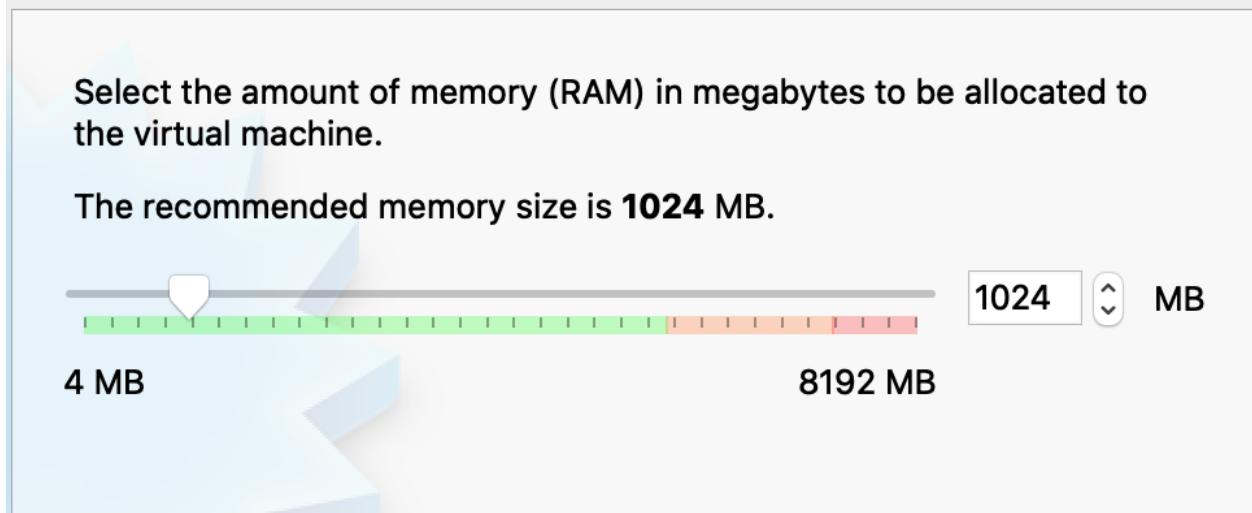


Set up VirtualBox for CentOS7 on MacOS machine

Download VirtualBox



Memory size



Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **8.00 GB**.

- ☐ Do not add a virtual hard disk
- ☒ Create a virtual hard disk now
- ☐ Use an existing virtual hard disk file

Ubuntu Server Munki.vdi (Normal, 15.00 GB)



Go Back

Create

Cancel

Hard disk file type

Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.

- ☒ VDI (VirtualBox Disk Image)
- ☐ VHD (Virtual Hard Disk)
- ☐ VMDK (Virtual Machine Disk)

Expert Mode

Go Back

Continue

Cancel

Storage on physical hard disk

Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).

A **dynamically allocated** hard disk file will only use space on your physical hard disk as it fills up (up to a maximum **fixed size**), although it will not shrink again automatically when space on it is freed.

A **fixed size** hard disk file may take longer to create on some systems but is often faster to use.

- ☒ Dynamically allocated
☐ Fixed size

Go Back

Continue

Cancel

File location and size

Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.



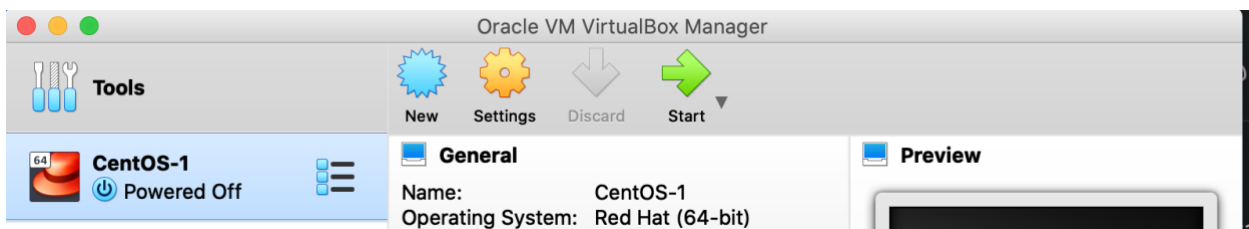
Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.

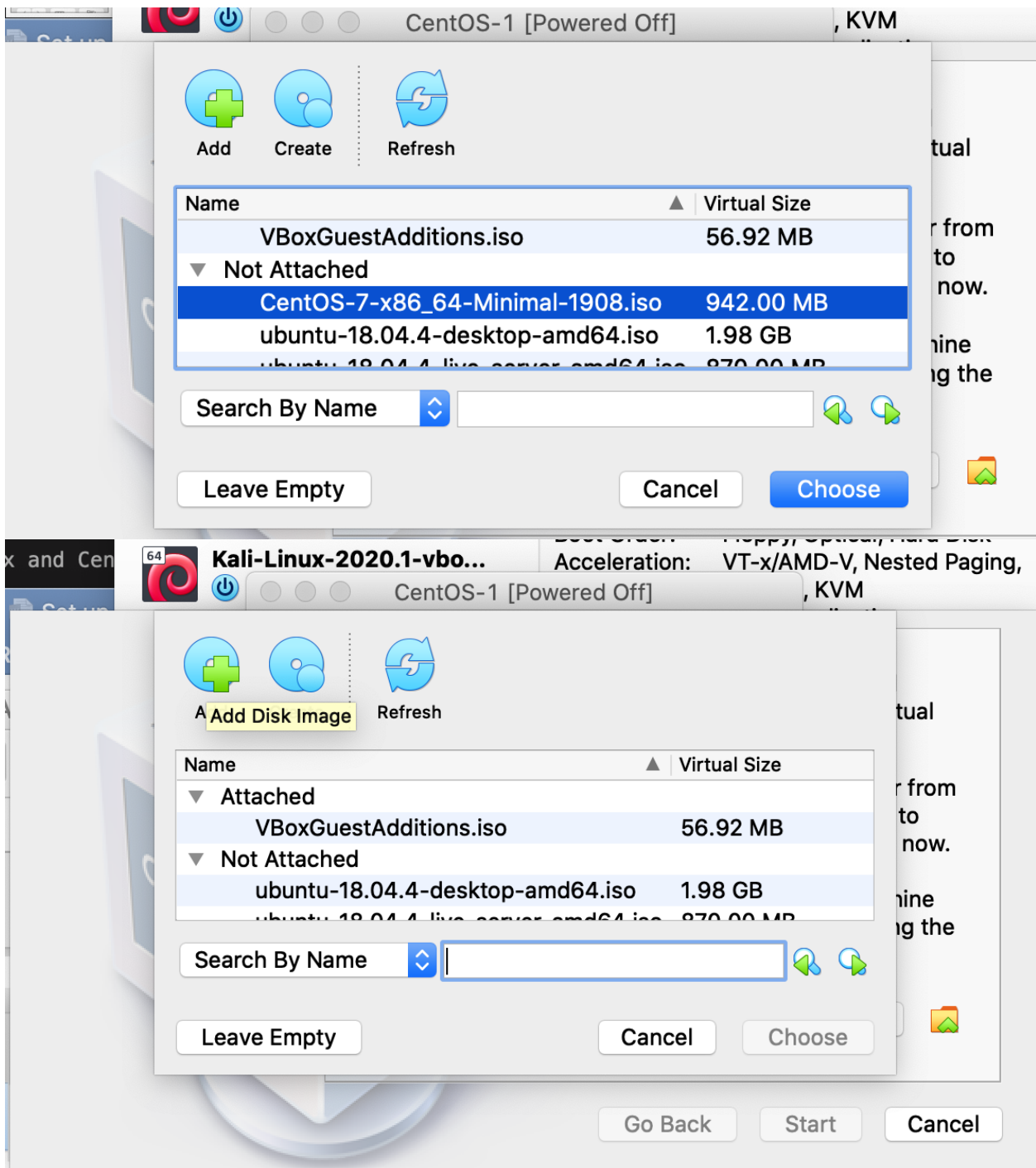


Go Back

Create

Cancel

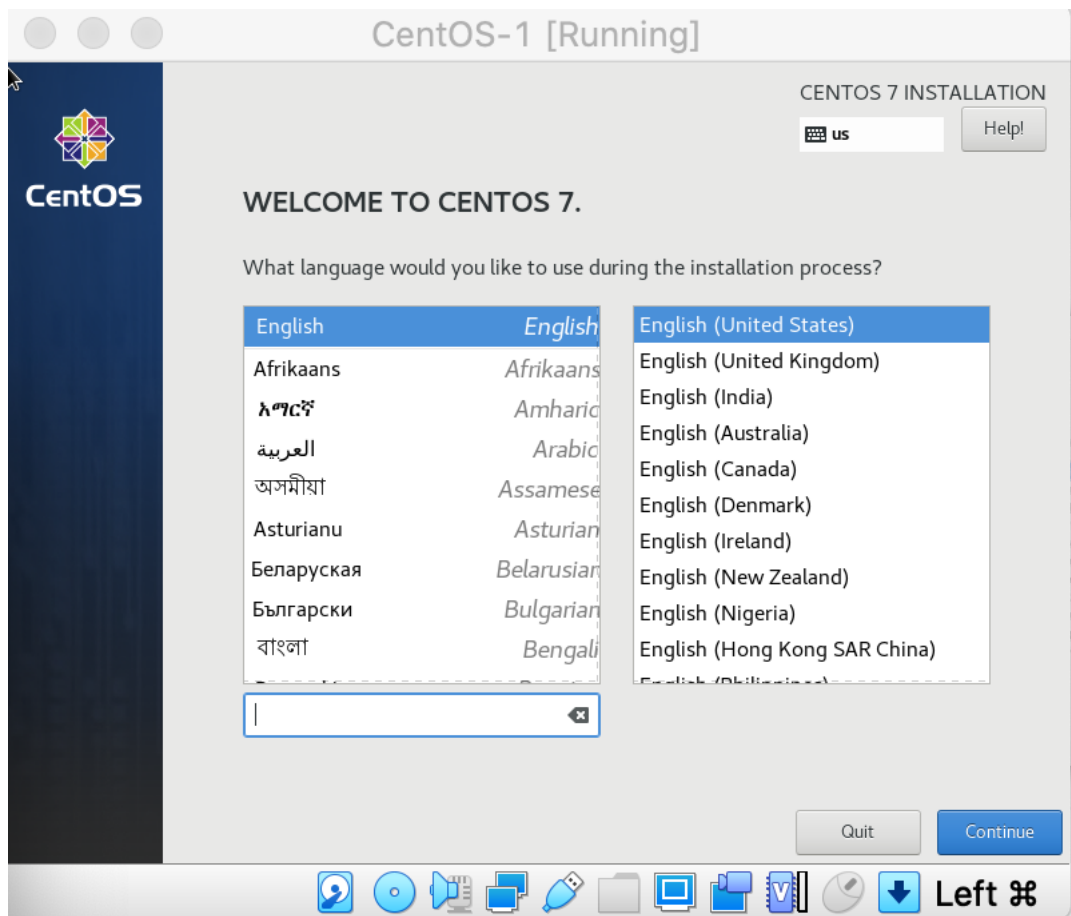






Start CentOS-1 VM

Hover over "Install CentOS 7 Media" option and press [Enter]





CentOS

INSTALLATION SUMMARY

CENTOS 7 INSTALLATION

us

Help!

LOCALIZATION



DATE & TIME

Americas/Los Angeles timezone



KEYBOARD

English (US)



LANGUAGE SUPPORT

English (United States)

SOFTWARE



INSTALLATION SOURCE

Local media



SOFTWARE SELECTION

Minimal Install

SYSTEM



INSTALLATION DESTINATION



KDUMP

Quit

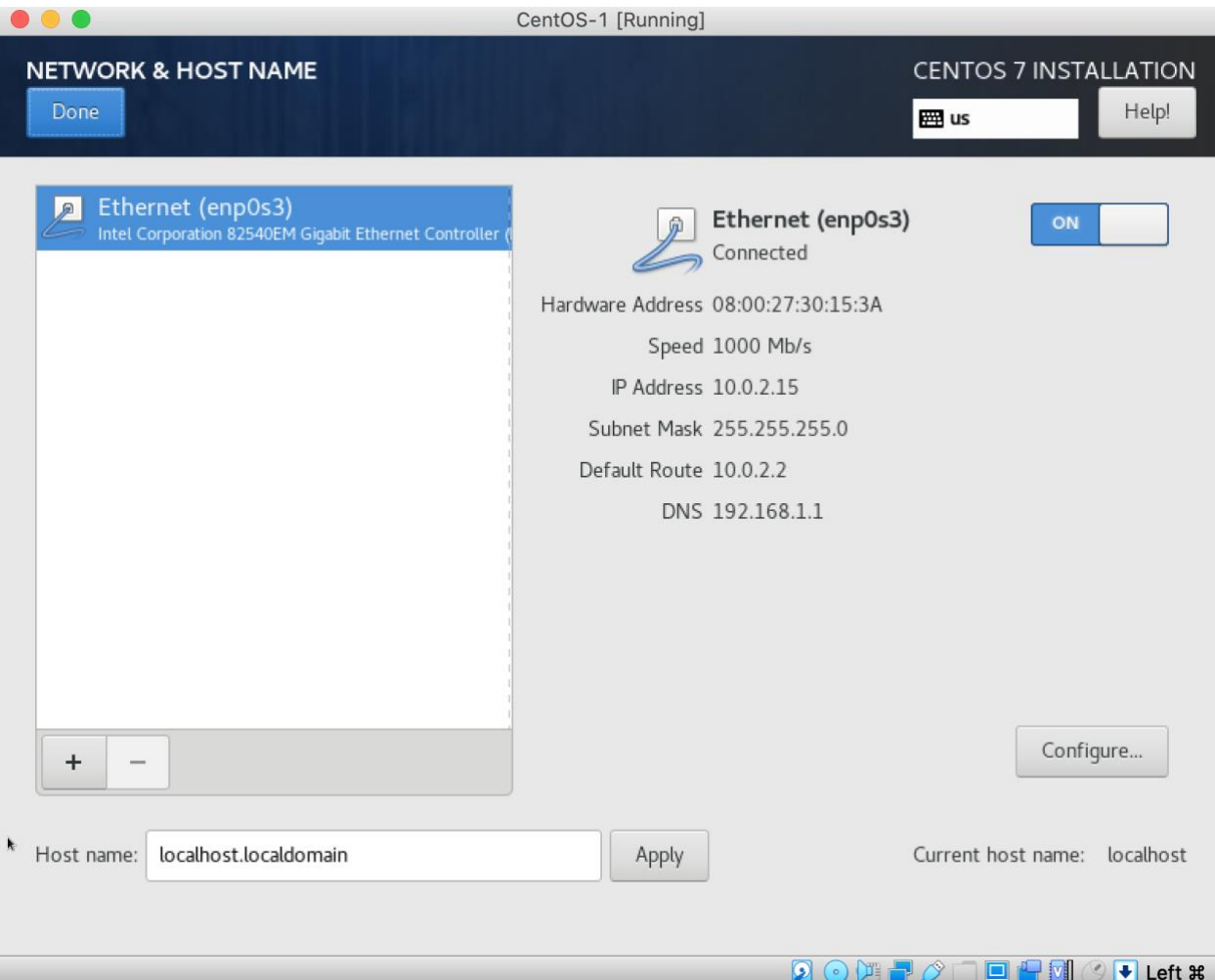
Begin Installation

We won't touch your disks until you click 'Begin Installation'.

Please complete items marked with this icon before continuing to the next step.



Left ⌘



CentOS-1 [Running]

INSTALLATION SOURCE

Done

CENTOS 7 INSTALLATION

us

Help!

Which installation source would you like to use?

☐ Auto-detected installation media:

Device: sr0
Label: CentOS_7_x86_64

Verify

☐ ISO file:

Device:

VBOX HARDDISK /dev/sda1 (1024 MiB MB) xfs
909e5d00-8b0e-405e-9f05-705db952765a

Choose an ISO

Verify

☒ On the network:

http://

mirror.centos.org/centos/7/os/x86_64/

Proxy setup...

☐ This URL refers to a mirror list.

Additional repositories

Enabled	Name
---------	------

+

-

↺

Name:

http://

☐ This URL refers to a mirror list.

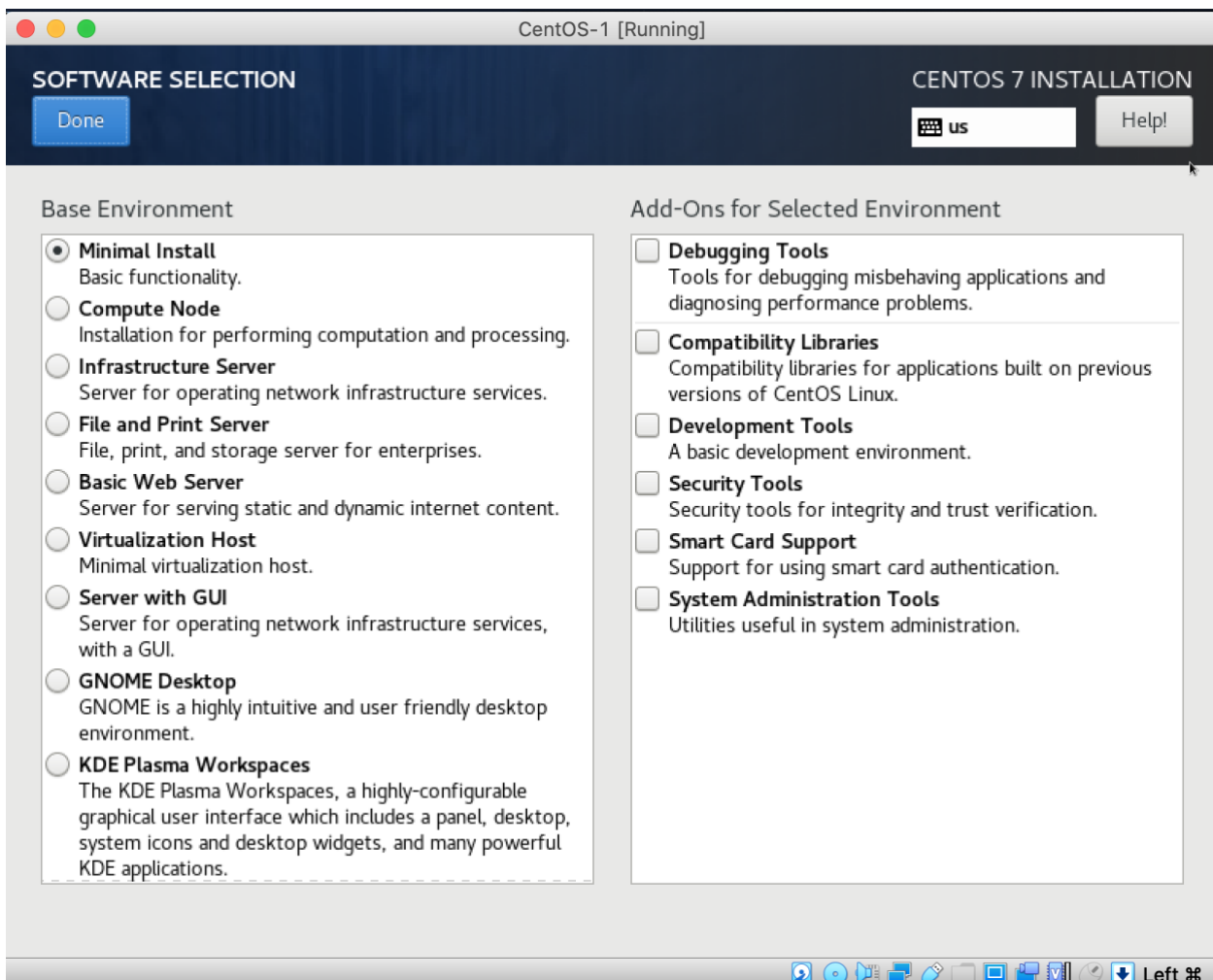
Proxy URL:

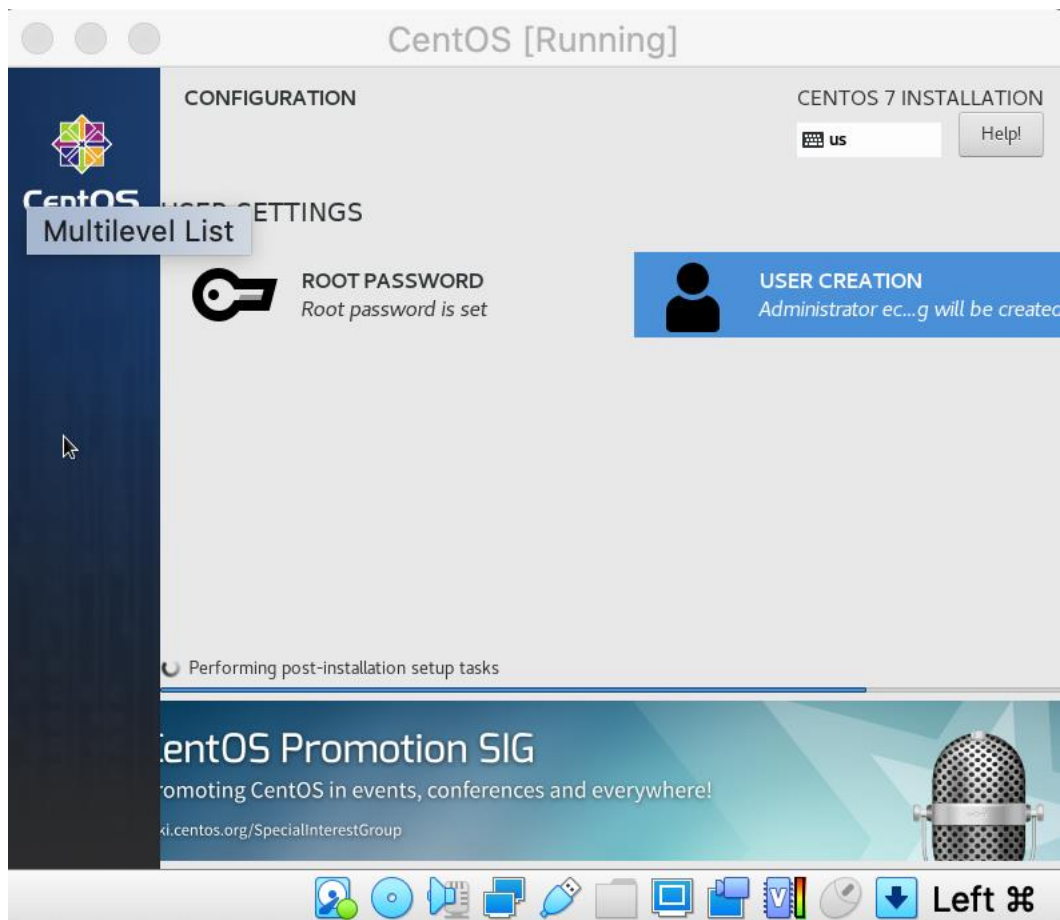
User name:

Password:

Left

⌘





Log into VM from the host via SSH

On your VM (CentOS): Enable sshd service to start when server is booted and start it.

```
$ sudo systemctl enable sshd
```

```
$ sudo systemctl start sshd
```

```
$ sudo systemctl status sshd
```

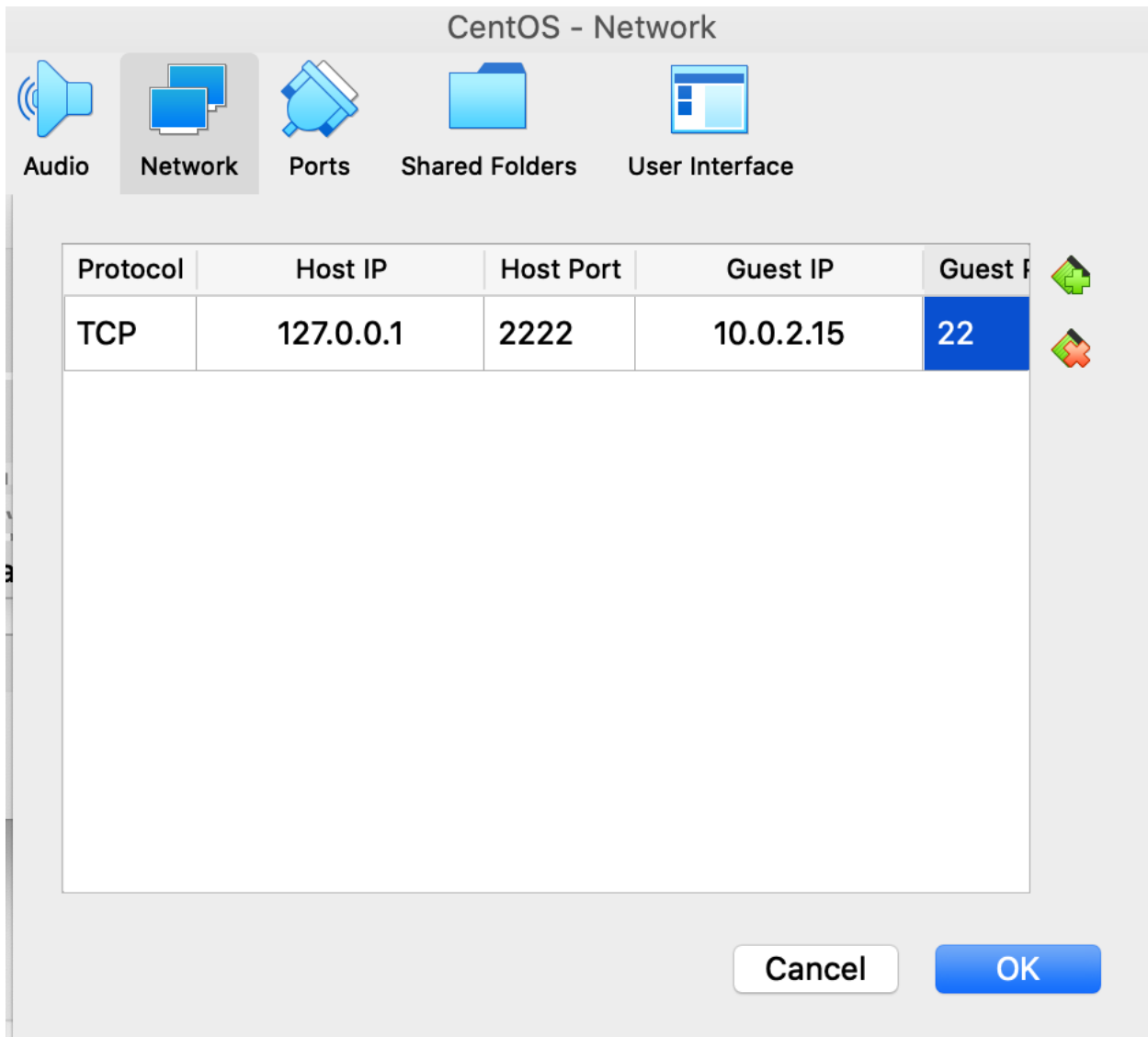
```
teching@localhost ~]$ sudo systemctl status sshd
■ sshd.service - OpenSSH server daemon
   Loaded: loaded (/usr/lib/systemd/system/sshd.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2020-03-23 15:52:18 PDT; 7min ago
     Docs: man:sshd(8)
           man:sshd_config(5)
   Main PID: 1069 (sshd)
   CGroup: /system.slice/sshd.service
           └─1069 /usr/sbin/sshd -D

Mar 23 15:52:18 localhost.localdomain systemd[1]: Starting OpenSSH server daemon...
Mar 23 15:52:18 localhost.localdomain sshd[1069]: Server listening on 0.0.0.0 port 22.
Mar 23 15:52:18 localhost.localdomain sshd[1069]: Server listening on :: port 22.
Mar 23 15:52:18 localhost.localdomain systemd[1]: Started OpenSSH server daemon.
teching@localhost ~]$
```

Set up port forwarding for the VirtualBox NAT network

On VirtualBox's CentOS > Settings > Network > Advanced > Port Forwarding

Map localhost:2222 on host (MacOS) to 10.0.2.15:22 on guest (CentOS)



Now we can ssh into our CentOS VM:

```
$ ssh eching@127.0.0.1 -p 2222
```

```
Munki-server:~ aimhigh$ ssh eching@127.0.0.1 -p 2222
The authenticity of host '[127.0.0.1]:2222 ([127.0.0.1]:2222)' can't be established.
ECDSA key fingerprint is SHA256:4x0z3BM+A197EKHv4zX2jwMrVS+zIDaYl0pv6bI9F1Y.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '[127.0.0.1]:2222' (ECDSA) to the list of known hosts
.
eching@127.0.0.1's password:
Last login: Mon Mar 23 15:57:36 2020
[eching@localhost ~]$
```

Update your VM

```
$ sudo yum update
```

If updating kernel or initialization system, do a reboot. Most likely will be the case when setting up new VM.

```
$ sudo systemctl reboot
```