CentOS6.7: Step 1: VM creation

Create a VM with CentOS6.7

>>>
IMPORTANT: once you have your VM up and running - make sure you keep snapshots of working states often - before you do any serious next step (like installing something or changing permissions….). This way you can always get back to a working state and re-do if you screw something up!
To create a snapshot:
Go to “Virtual Machine” -> Snapshots -> Take snapshot

Or you can create a Full Clone of your VM - which will let you have a brand new copy of your VM:
Go to “Virtual Machine” -> “Create Full Clone …"
>>>

Plain CentOS ISO:
http://mirror.rackspace.com/CentOS/6.7/isos/x86_64/

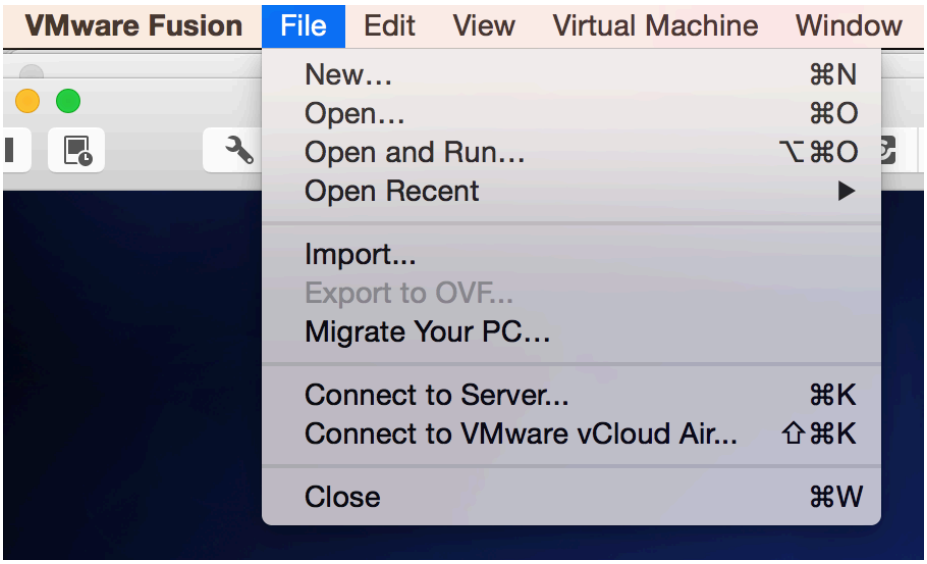
pick …_64-bin-DVD1.iso:

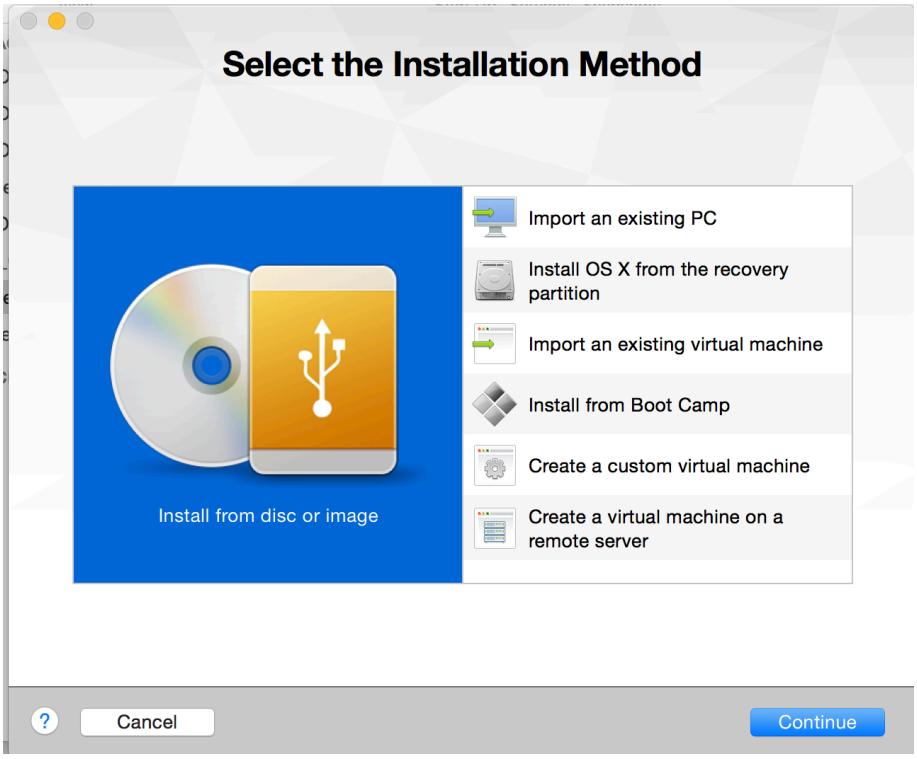
Index of /CentOS/6.7/isos/x86_64

- Parent Directory
- 0_README.txt
- CentOS-6.7-x86_64-LiveCD.iso
- CentOS-6.7-x86_64-LiveCD.torrent
- CentOS-6.7-x86_64-LiveDVD.iso
- CentOS-6.7-x86_64-LiveDVD.torrent
- CentOS-6.7-x86_64-bin-DVD1.iso
- CentOS-6.7-x86_64-bin-DVD1to2.torrent
- CentOS-6.7-x86_64-bin-DVD2.iso
- CentOS-6.7-x86_64-minimal.iso
- CentOS-6.7-x86_64-minimal.torrent
- CentOS-6.7-x86_64-netinstall.iso
- CentOS-6.7-x86_64-netinstall.torrent
- md5sum.txt
- md5sum.txt.asc
- sha1sum.txt
- sha1sum.txt.asc
- sha256sum.txt
- sha256sum.txt.asc

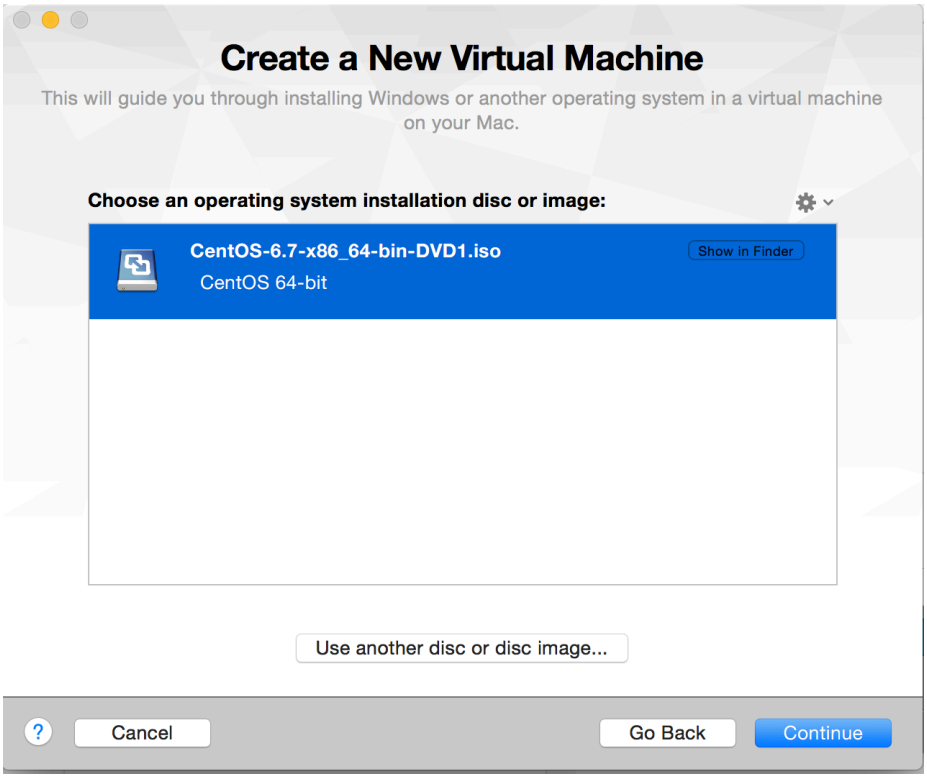
Rackers - More on this mirror here: https://rax.io/mirrorfaq

In your VMWare Fusion, Select File - New:

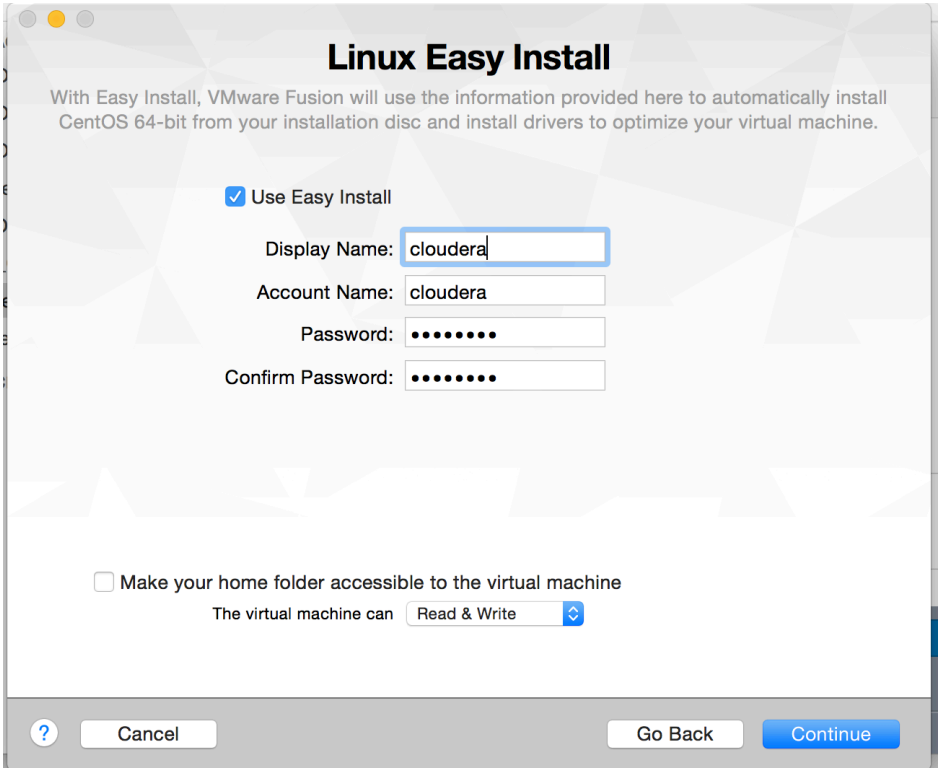


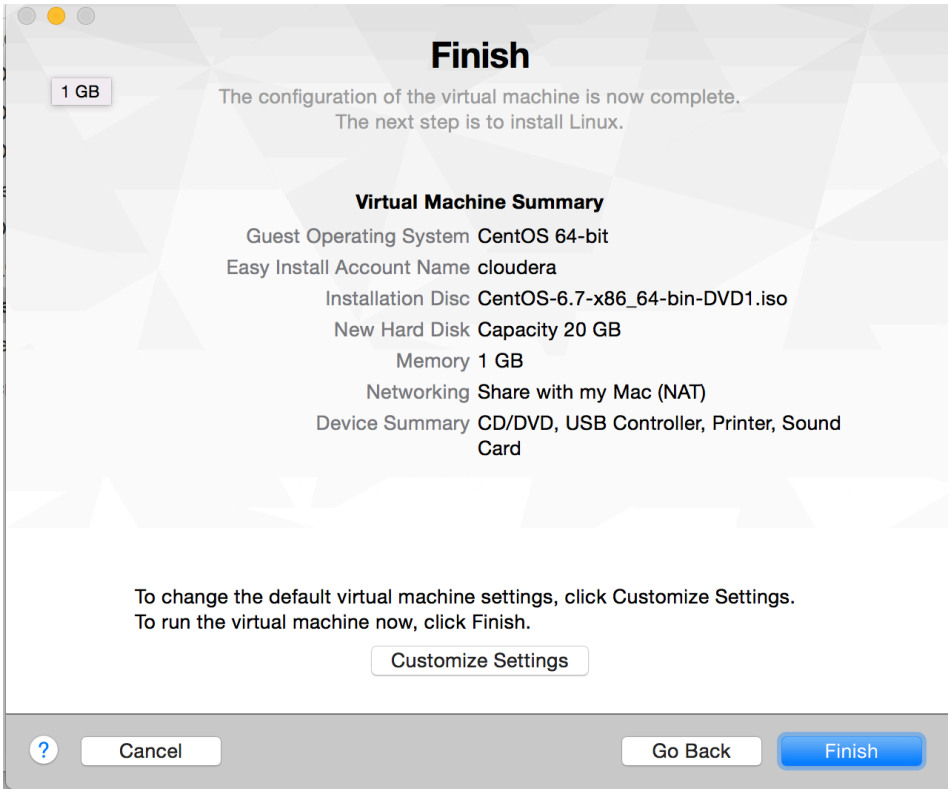


click Continue
Click “Use another disc or disc image …” - select your .iso file:



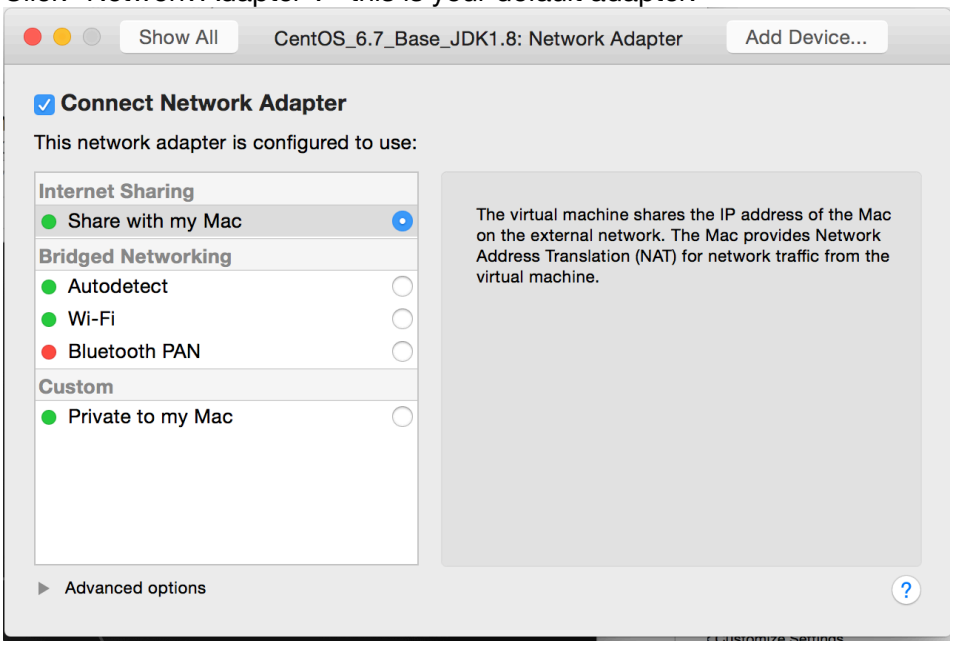
user: cloudera
pwd: cloudera


Linux Easy Install
With Easy Install, VMware Fusion will use the information provided here to automatically install CentOS 64-bit from your installation disc and install drivers to optimize your virtual machine.
Use Easy Install
Display Name: cloudera
Account Name: cloudera
Password: ••••••••
Confirm Password: ••••••••
Make your home folder accessible to the virtual machine
The virtual machine can Read & Write
Cancel
Go Back
Continue

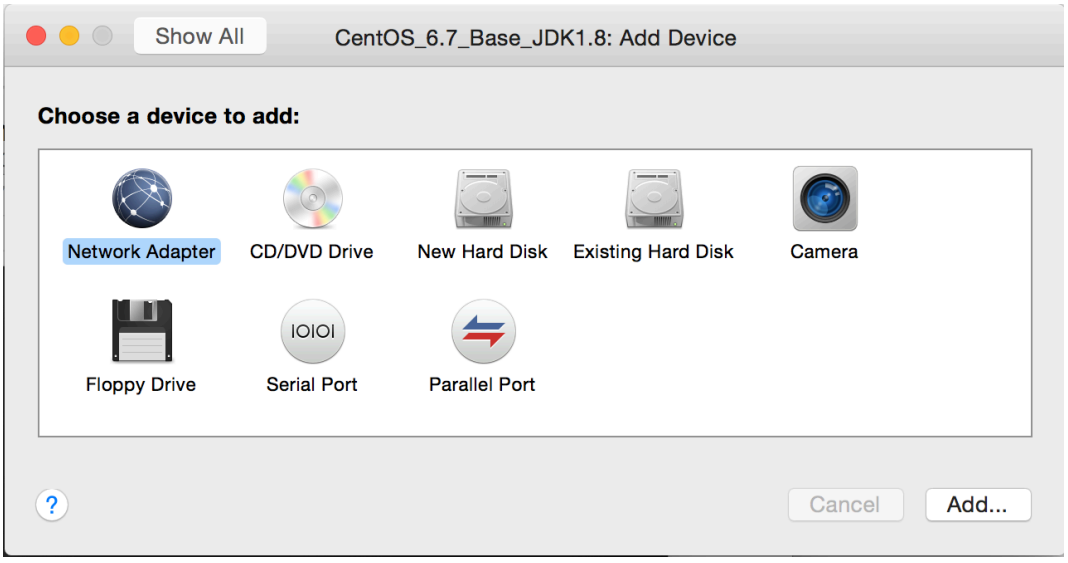

1 GB
Finish
The configuration of the virtual machine is now complete.
The next step is to install Linux.
Virtual Machine Summary
Guest Operating System CentOS 64-bit
Easy Install Account Name cloudera
Installation Disc CentOS-6.7-x86_64-bin-DVD1.iso
New Hard Disk Capacity 20 GB
Memory 1 GB
Networking Share with my Mac (NAT)
Device Summary CD/DVD, USB Controller, Printer, Sound Card
To change the default virtual machine settings, click Customize Settings.
To run the virtual machine now, click Finish.
Customize Settings
Cancel
Go Back
Finish

Click “Customize Settings"

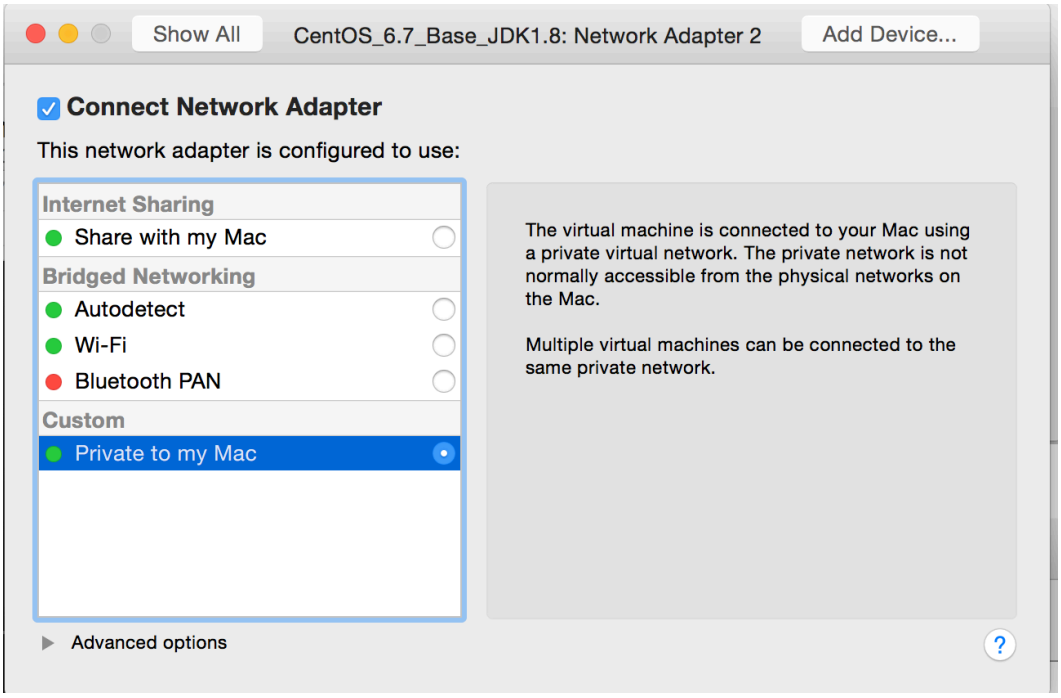
Click “Network Adapter”: - this is your default adapter:



Click “Add Device …"



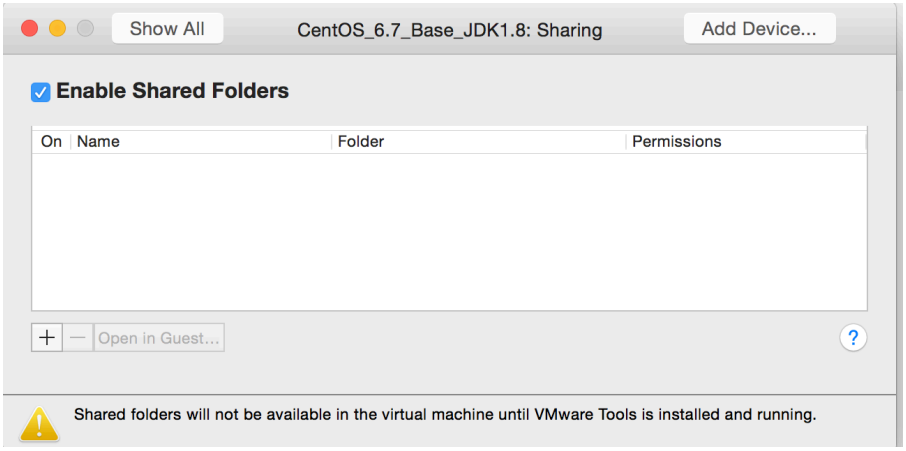
select Network Adapter and click “Add…"



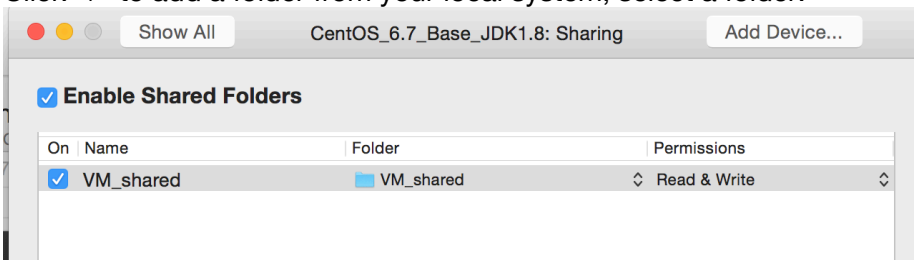
Pick “Private to my Mac” - close the window.
Verify you have two adapters now:

Click on “Settings” icon  (not sure what this tool is called … :))

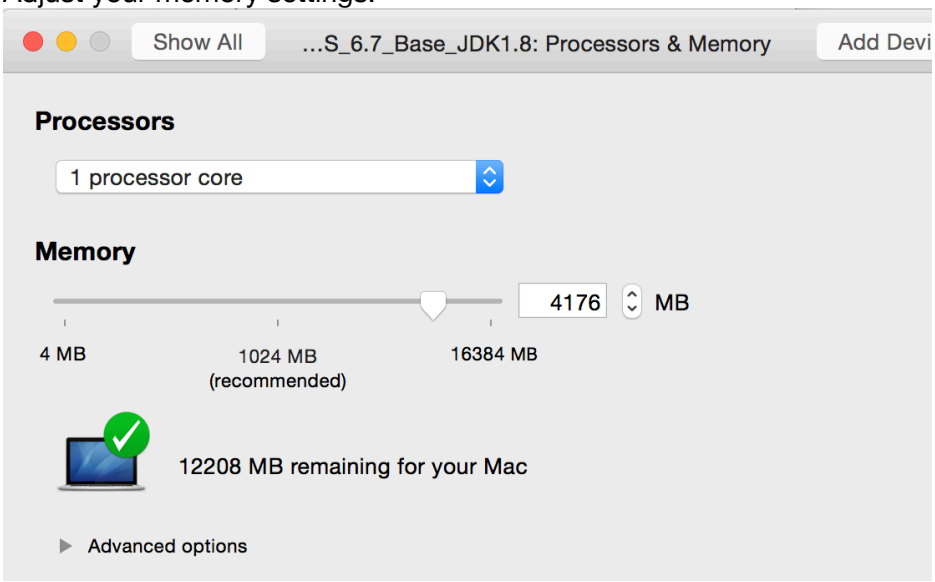
Now click on “Sharing”
Enable shared folders:



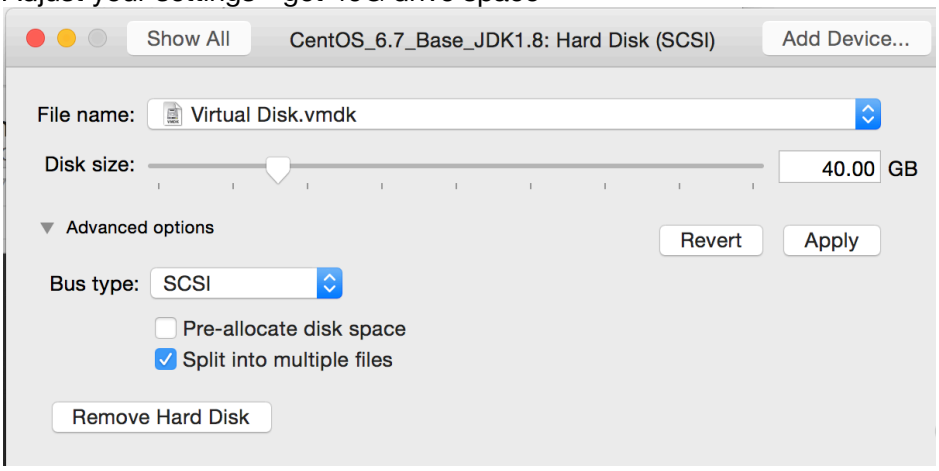
Click ‘+” to add a folder from your local system, select a folder:



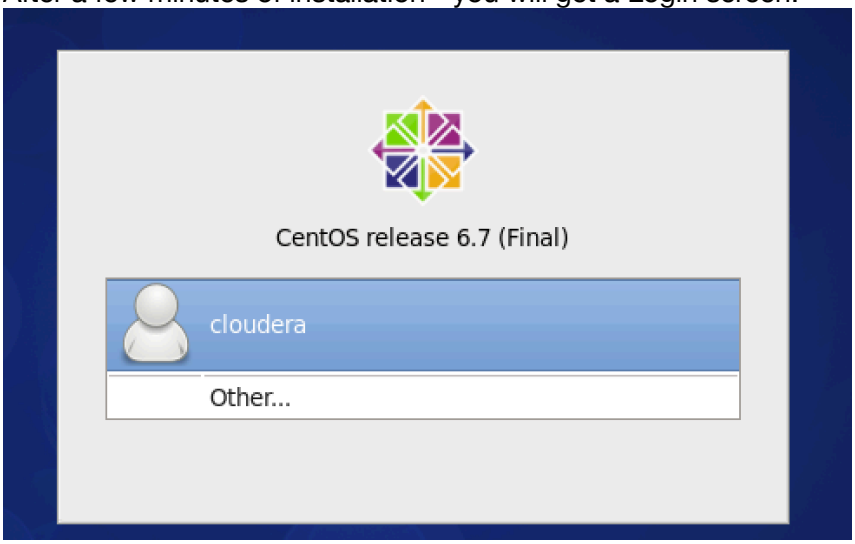
Go back to Settings, select Processors & Memory
Adjust your memory settings:



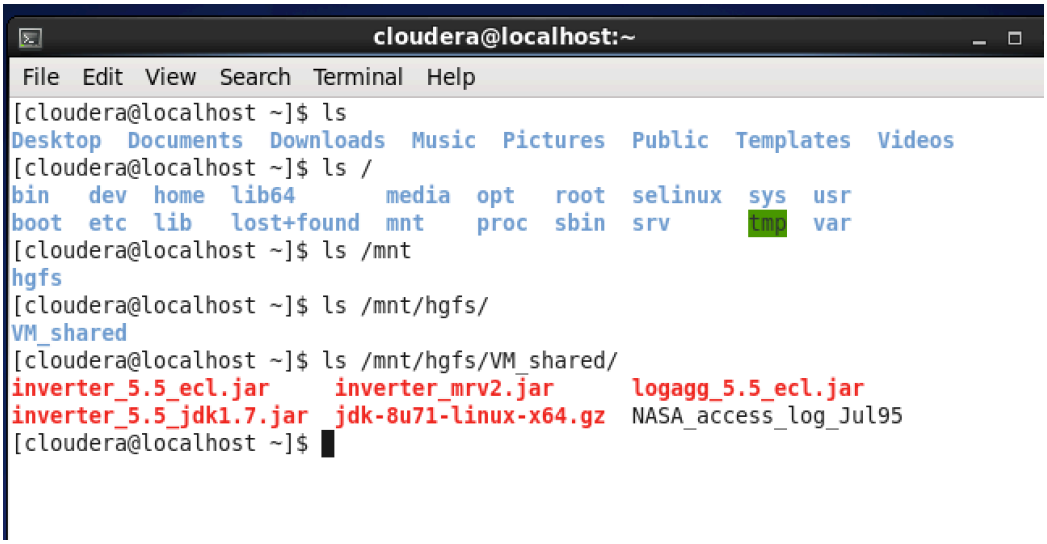
Back to Settings - select Hard Disk
Adjust your settings - get 40G drive space



Click the big error button to start the VM
After a few minutes of installation - you will get a Login screen:



Login and verify you can see your shared folder:
(I already have some stuff in that folder - but yours will, obviously, have different content)



Now you can easily share files between your local system and VM - without the need to do 'scope' :)

Verify you have two network adapters:

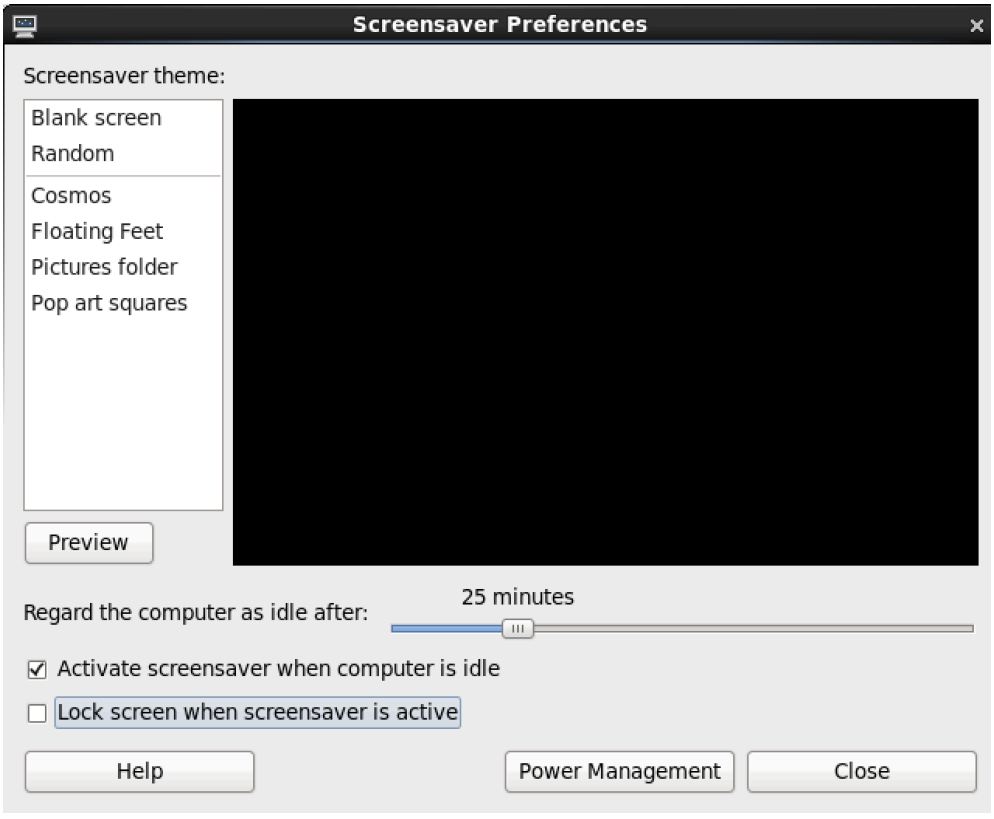
```
[cloudera@localhost ~]$ ifconfig
eth0      Link encap:Ethernet  HWaddr 00:0C:29:47:92:87
          inet addr:192.168.177.175  Bcast:192.168.177.255  Mask:255.255.255.0
          inet6 addr: fe80::20c:29ff:fe47:9287/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:41244 errors:0 dropped:0 overruns:0 frame:0
          TX packets:18158 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:61527295 (58.6 MiB)  TX bytes:1096945 (1.0 MiB)

eth1      Link encap:Ethernet  HWaddr 00:0C:29:47:92:91
          inet6 addr: fe80::20c:29ff:fe47:9291/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:31 errors:0 dropped:0 overruns:0 frame:0
          TX packets:3 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:3580 (3.4 KiB)  TX bytes:258 (258.0 b)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:8 errors:0 dropped:0 overruns:0 frame:0
          TX packets:8 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:480 (480.0 b)  TX bytes:480 (480.0 b)

[cloudera@localhost ~]$
```

How to become a ROOT user

By default, ‘cloudera’ user is not enabled as a SUDO user.
To do that - you have to login as a real root user.
Log out of VM, and choose Switch user option:
login as:
user: root
pwd: cloudera (same password as the cloudier user)

Now you can make cloudera a sudo user - following Professor’s instructions.

Tip:
If you do not want to be locked out of your VM and enter password every 5 min - change the Screensaver preferences:
Go to System -> Preferences -> Screensaver:
set to whatever your prefer



After this - all steps for setting up users, installing CDH, etc. are the same as what was demonstrated in the lecture and Lab.