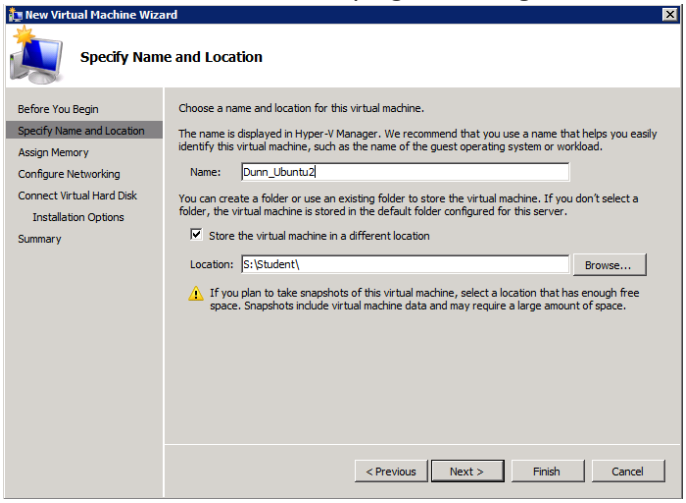
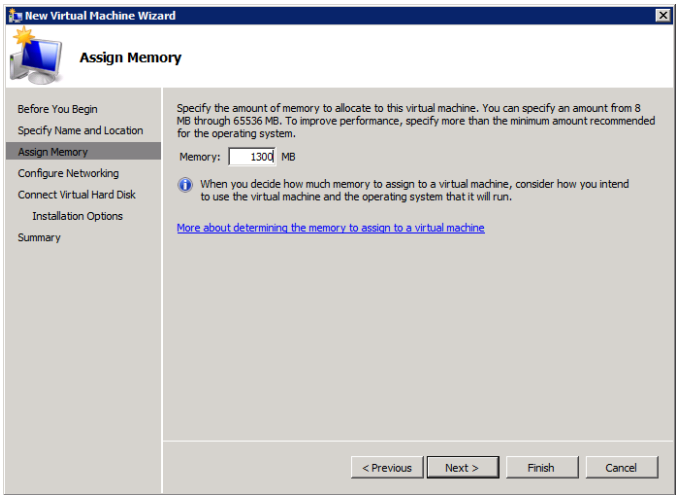
CIS Networking
Installing Ubuntu Server on Windows hyper-v

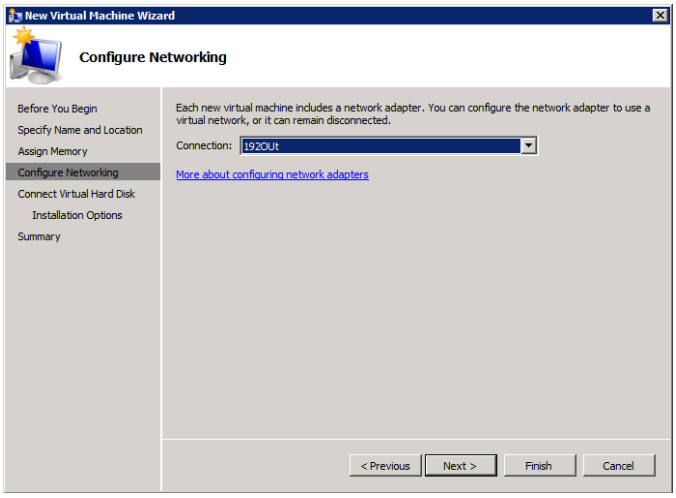
Much of this information was stolen from http://www.isummation.com/blog/installing-ubuntu-server-1104-64bit-on-hyper-v/

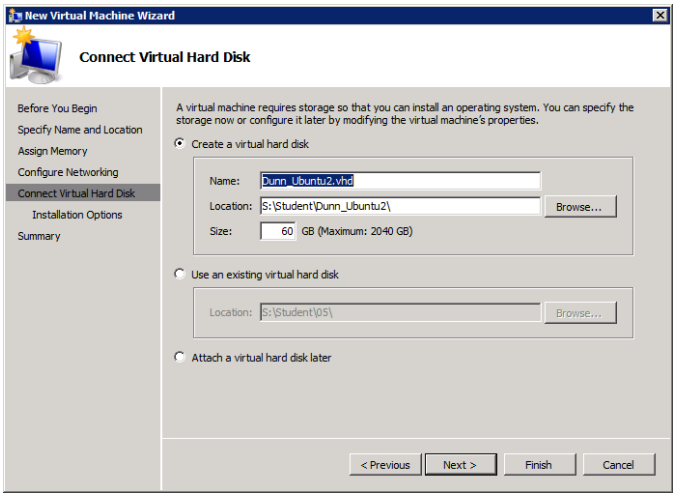
Create a virtual machine at your assigned virtual server. Use the following specs

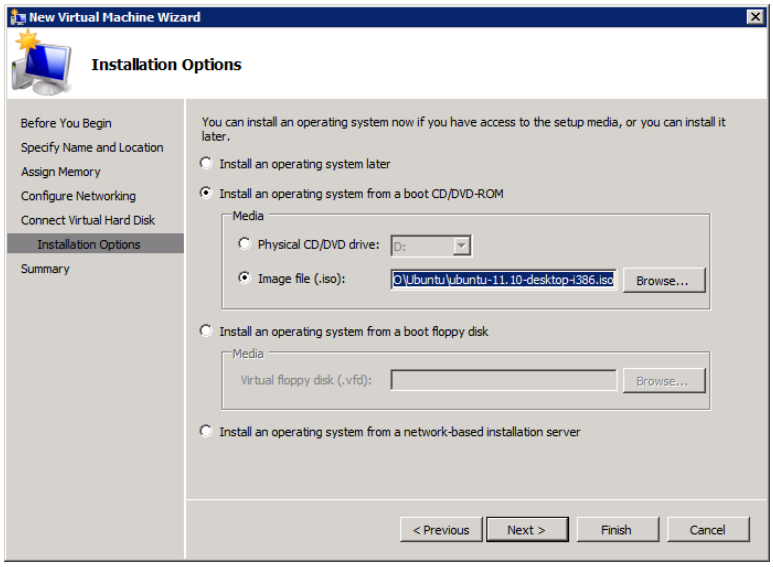
Name the Virtual Machine yourLastName_ubuntu
Assign 1300 MB of RAM
Connect the network card to the available virtual network
Create a virtual hard disk
Name leave default
Locate at s:\student
Maximum size is 60 GB
Install an operating system from a boot CD/DVD. Choose the latest ISO disk in the directory
e:\ISO\Ubuntu\ ubuntu-11.10-server-amd64.iso
Power on the machine by right-clicking it, the choose Start





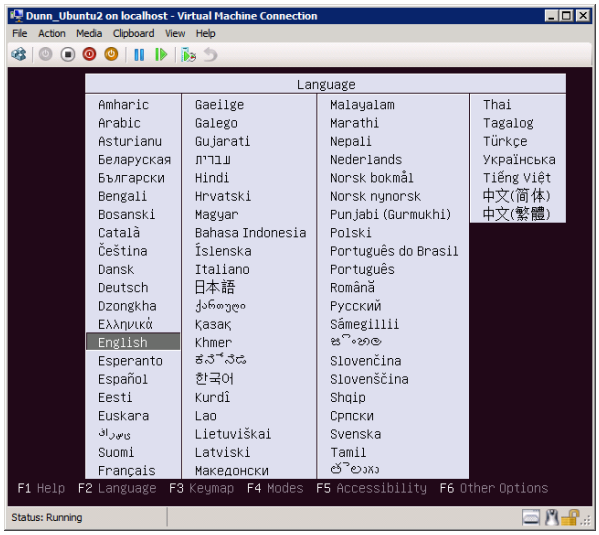




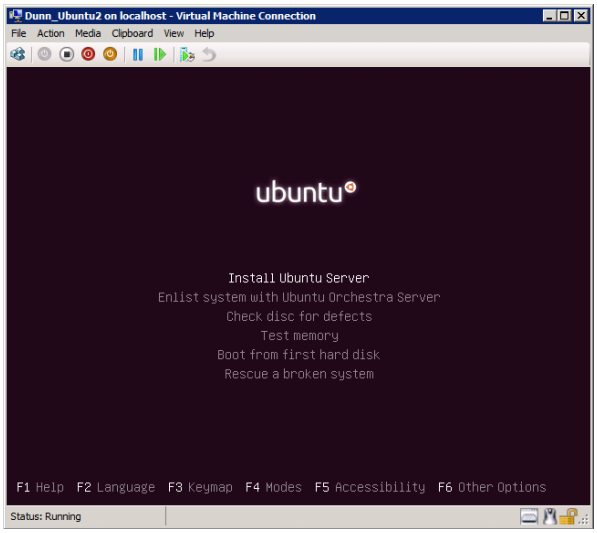


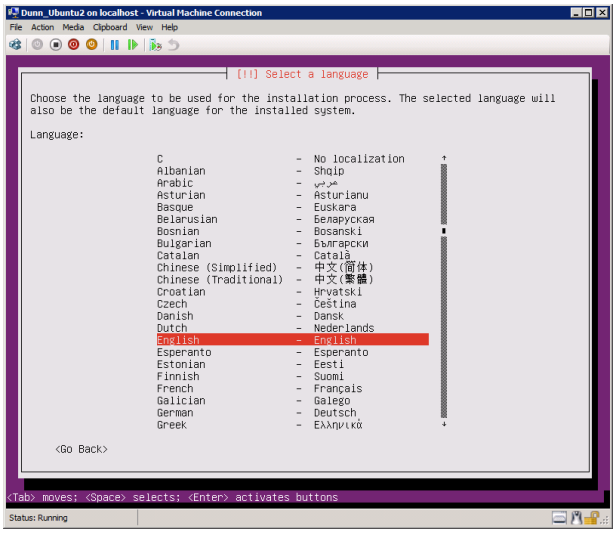
Double-click or click to highlight your assigned machine name, from the menu that appears at the right, click on Connect.
You are now looking at the virtual machine starting up.

The systematic instructions are below:
The installation begins within the console after the virtual machine is turned on.



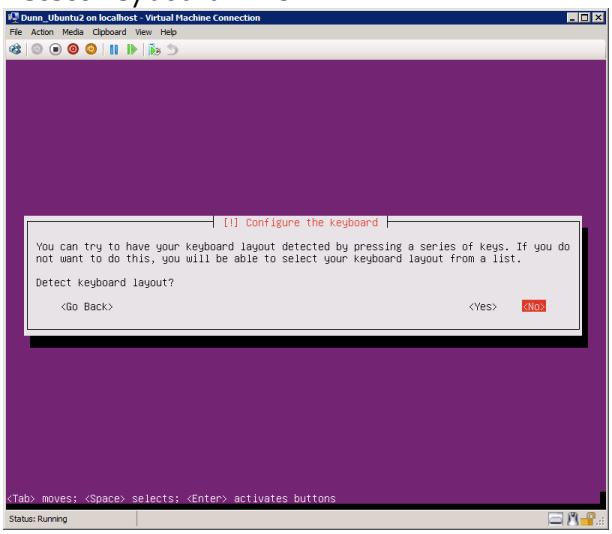
Choose English
Install Ubuntu Server





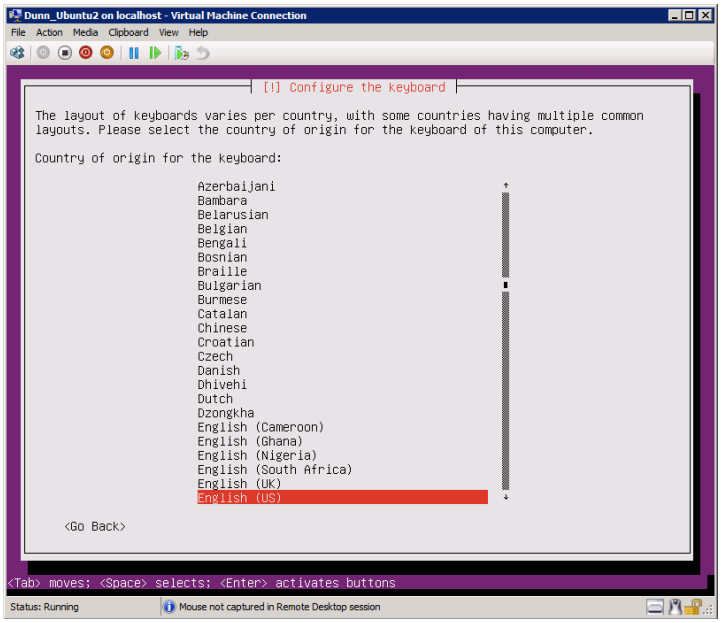
United States

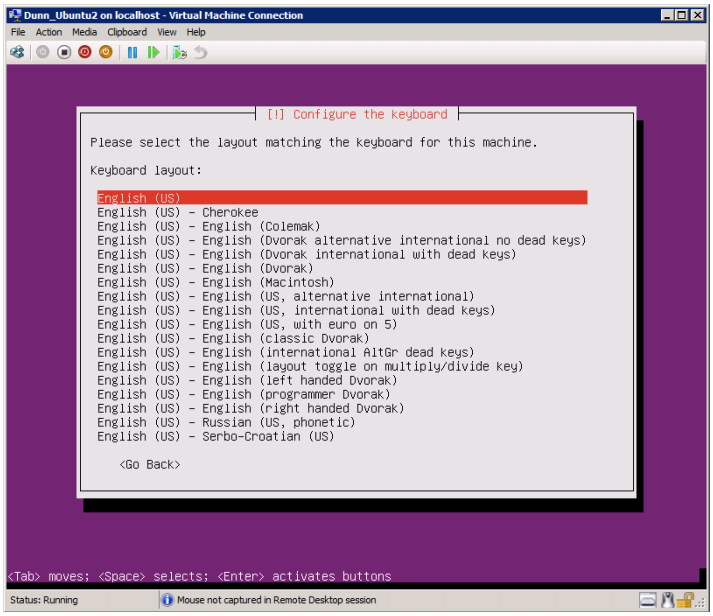
Detect Keyboard? NO



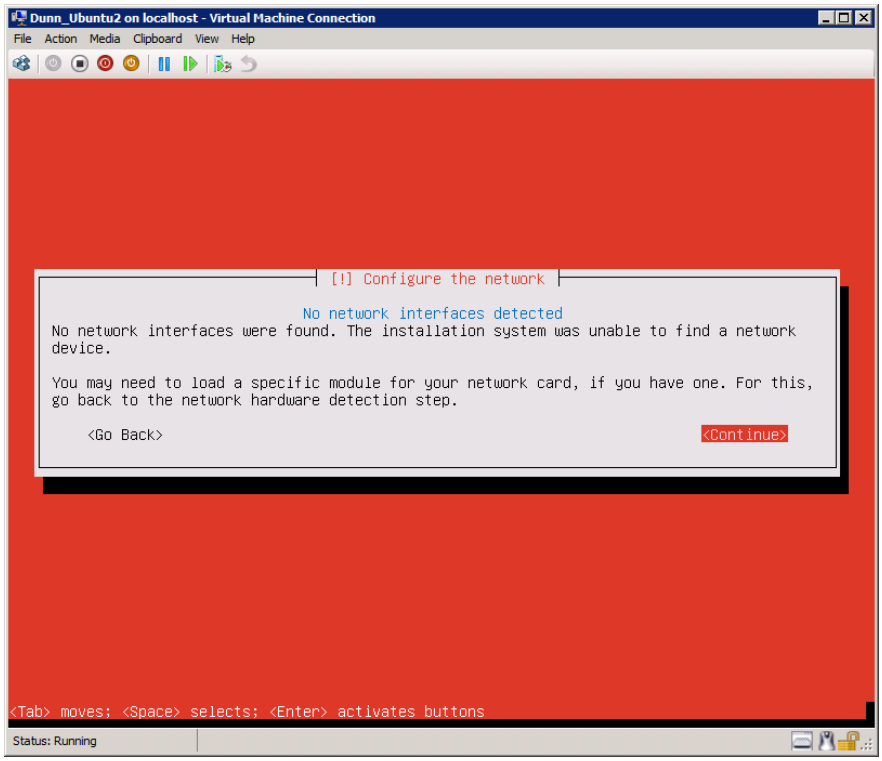
English (US)

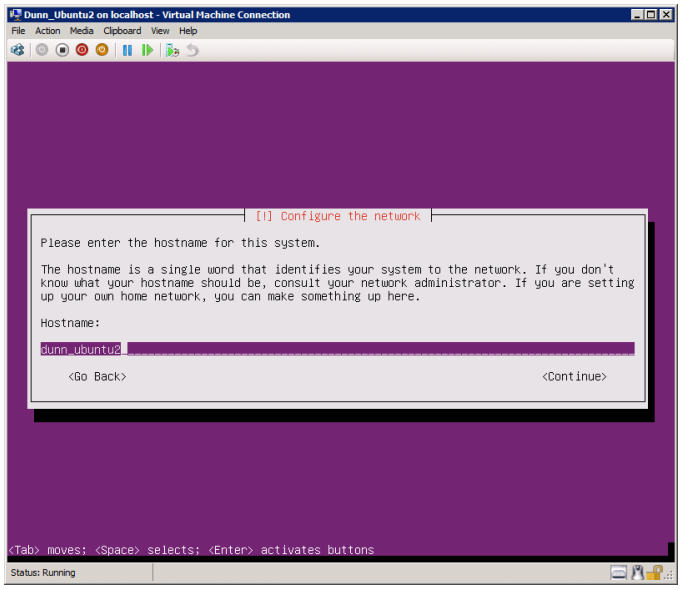
English (US)

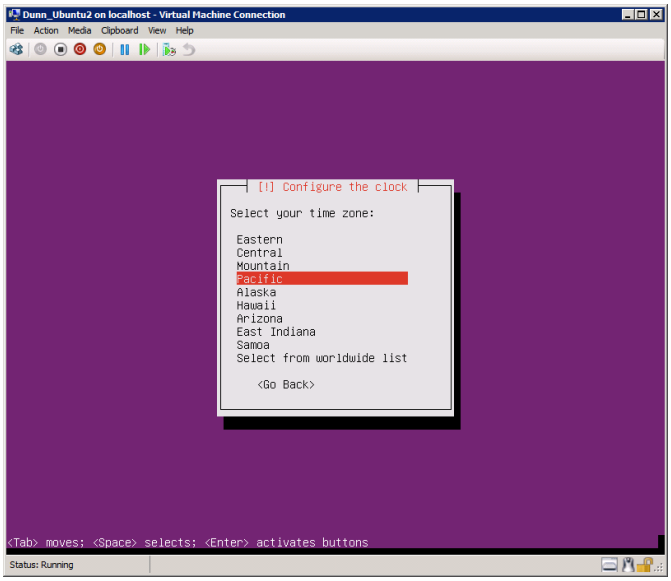




The system will not find the network card. We will fix this later. Choose **Continue**

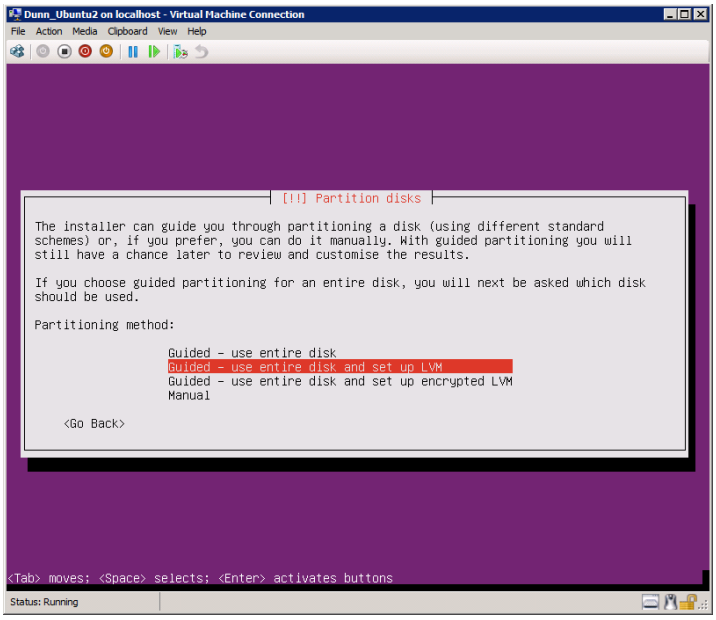




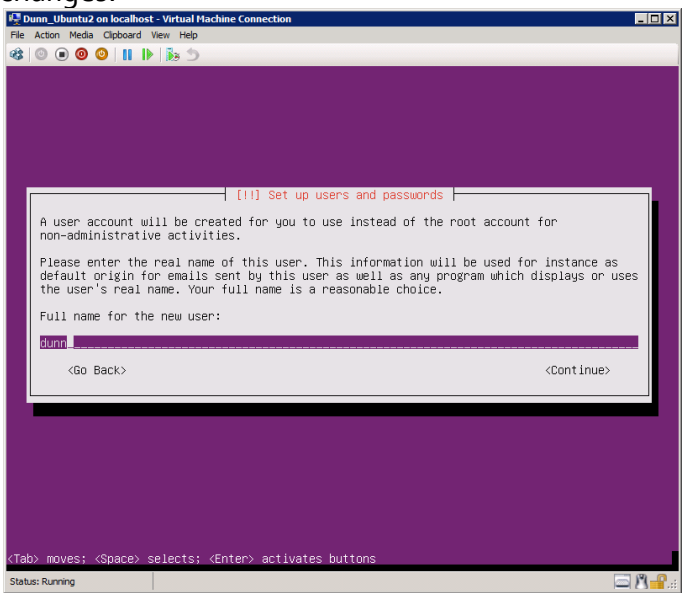


Hostname: xxUbuntu (replace xx with your student number)
Installation proceeds - setting up the clock, set the time zone to Pacific

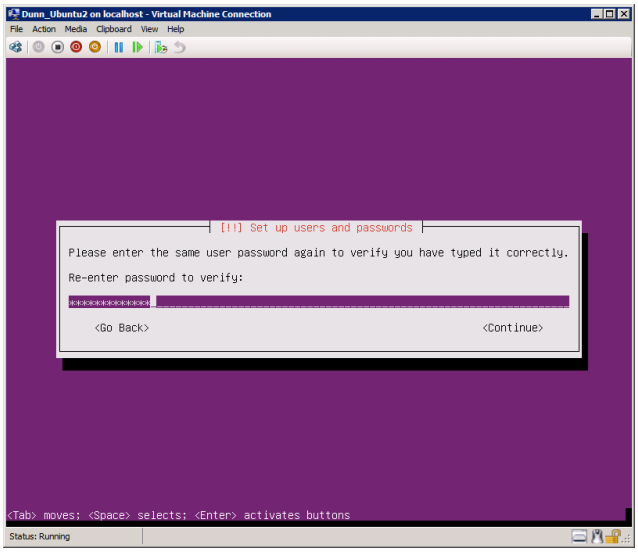
Partition Method: Guided - the disks using the entire disk and set up LVM



Select the available disk. Choose YES to write changes to the disk. Use the entire disk. Yes again to write changes.



Choose the name for new user - use your full name

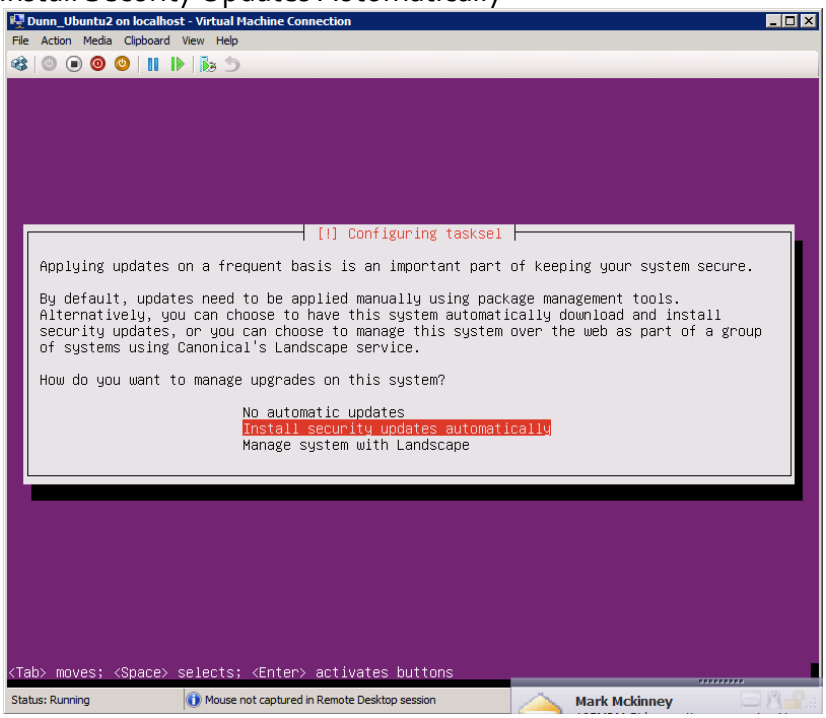


Choose the username for new user - your mySVC username.
Use your original mySVC password

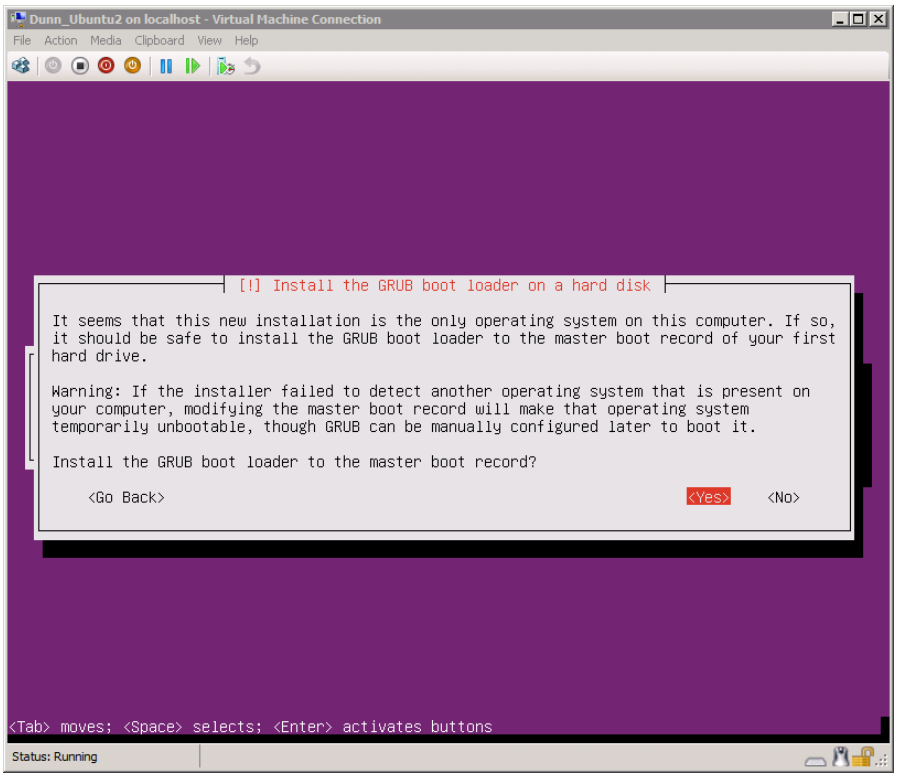
Encrypt your home directory? Choose NO

HTTP Proxy Information -leave blank. Choose Continue

Install Security Updates Automatically

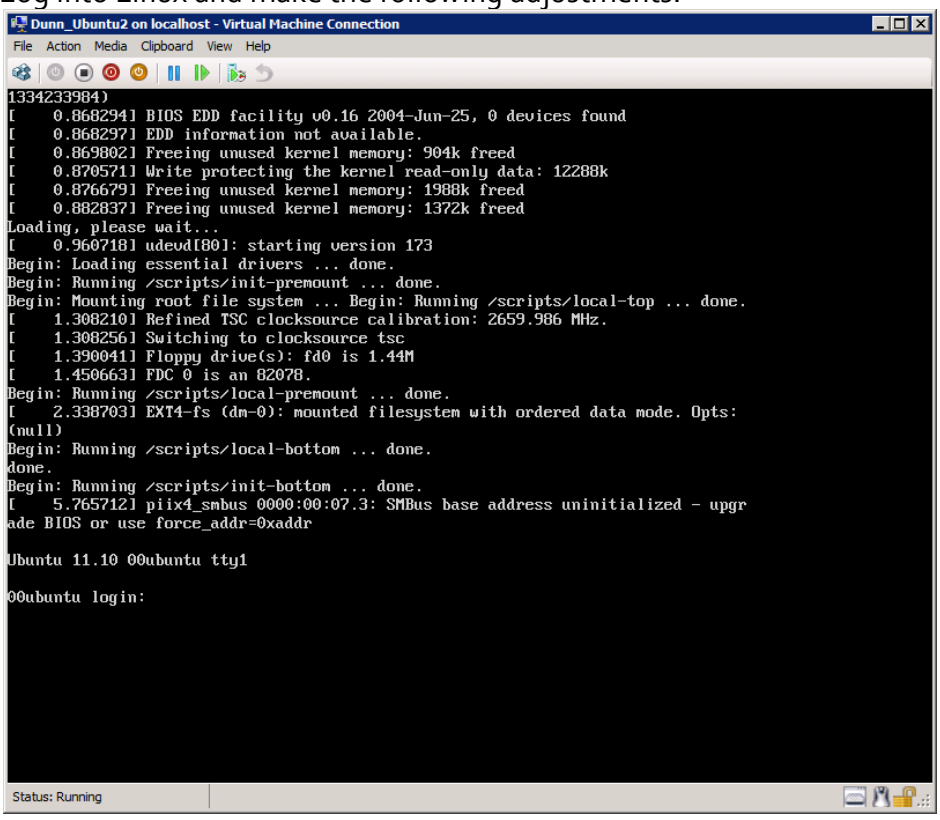


Software Selection: Choose DNS Server, OpenSSH server, Samba File Server, Ubuntu desktop. Choose Continue
Install the GRUB boot loader



Allow the system to reboot.

Log into Linux and make the following adjustments:



Create the root user: at the terminal prompt, type

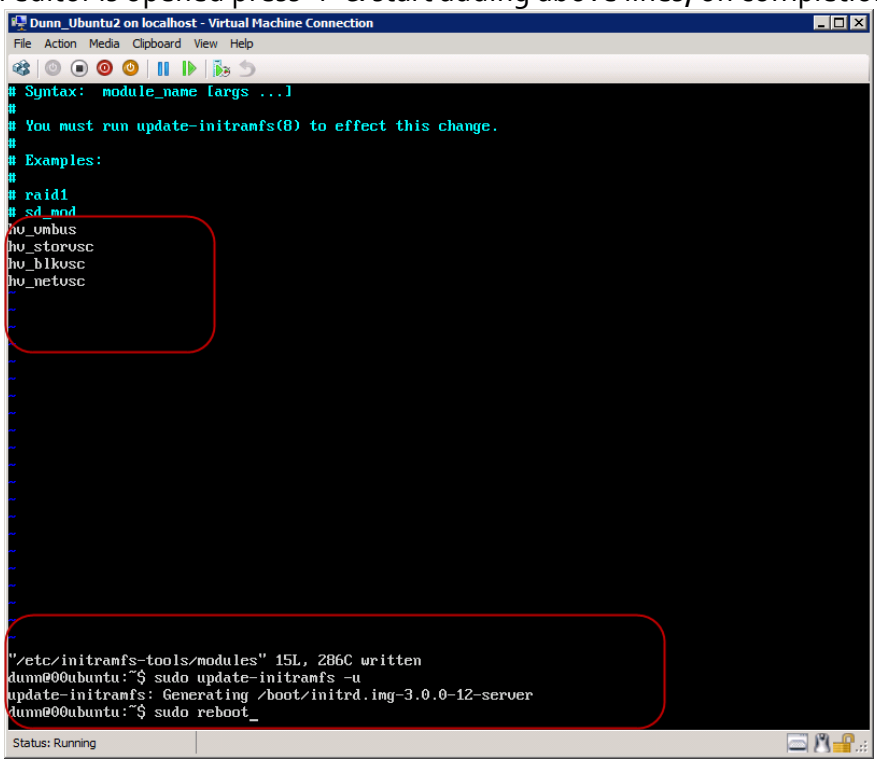
sudo passwd root

When prompted, enter your password, and then enter the password **cisIstheBest!** twice to assign the password to the root user.

Help Ubuntu find a network card:

sudo vi /etc/initramfs-tools/modules
add below lines to the end of the file
hv_vmbus
hv_storvsc
hv_blkvsc
hv_netvsc

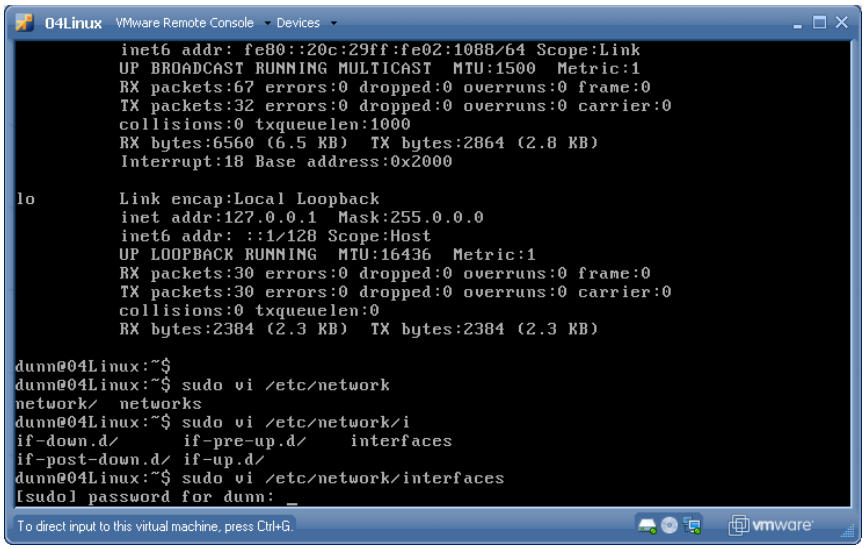
(once vi editor is opened press "i" & start adding above lines, on completion press "Esc" & type ":wq")



Set the IP numbers to static. At the command prompt, type

sudo vi /etc/network/interfaces

Enter the your password account as directed on the screen



Once you have made these changes you will need to run
sudo update-initramfs –u
sudo reboot

Using vi, open the file /etc/network/interfaces with root privileges. Make any changes necessary in the eth0 section. Replace xx with the assigned IP number. Note: in the line eth0, the 0 is a zero.

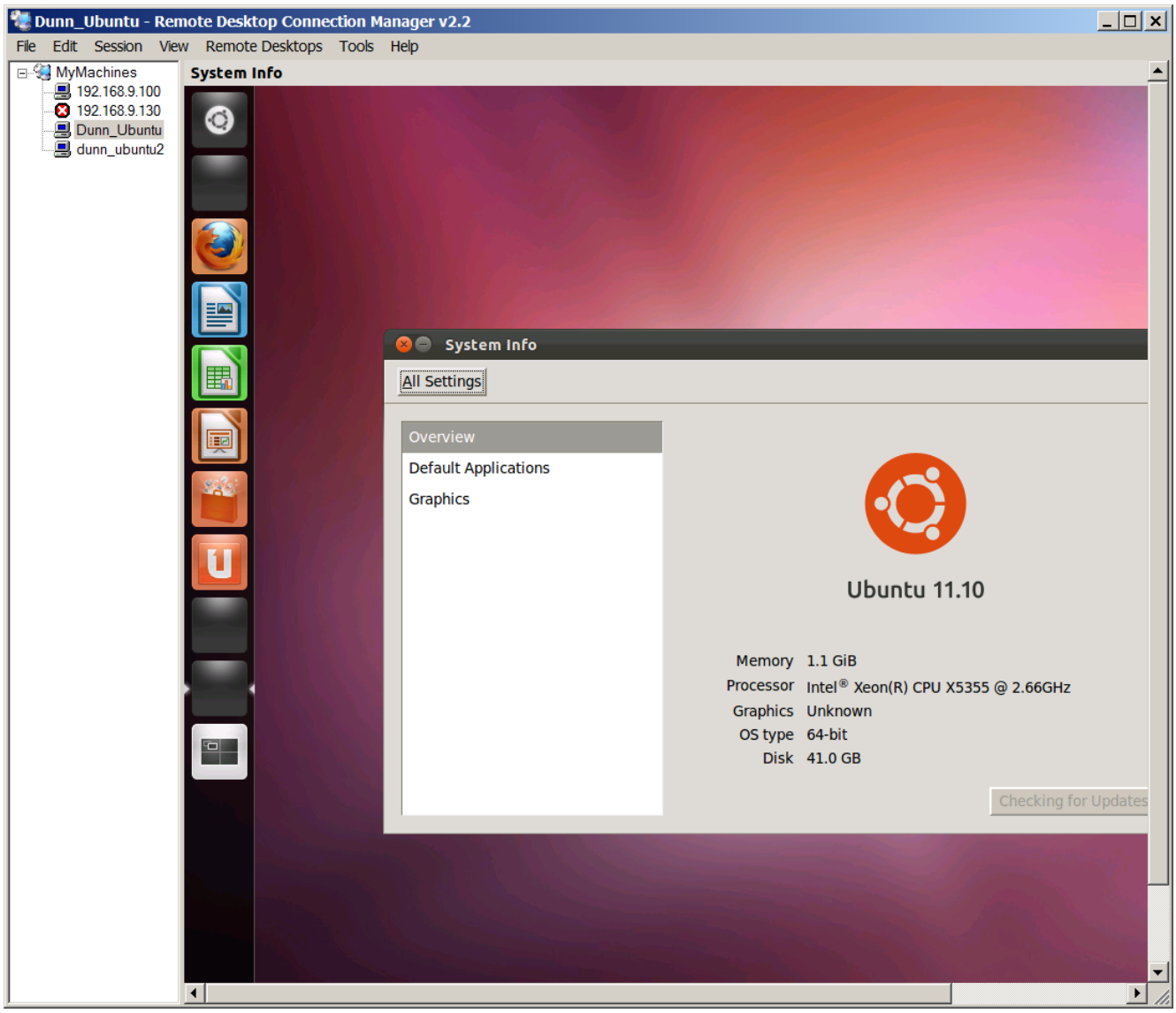
```
auto eth0
iface eth0 inet static
    address 192.168.9.xxx
    netmask 255.255.255.0
    network 192.168.9.0
    gateway 192.168.9.1
    # dns-* options are implemented by the resolvconf package, if installed
    nameserver 192.168.9.100
    search cis.local
```

ESC :wq to write and quit the VI editor.

restart the networking to use your new configurations:
sudo /etc/init.d/networking restart
Verify your connective
ping 192.168.9.1
Make sure you get a reply
ping www.google.com
Make sure you get the ip address of Google (you will not receive a reply)
Get and install the updates
sudo apt-get update
sudo apt-get upgrade
Get the remote desktop service
sudo apt-get install xrdp
Install the desktop
sudo apt-get install ubuntu-desktop
reboot
sudo reboot

If you are receiving errors, check your interfaces file again, verify the pings. One misplaced letter, or as I did, add a capital A in auto and nothing will work.

Initial setup is complete. The problem with Ubuntu and Hyper-V is that the mouse drivers will not install properly. The workaround is to use remote desktop to connect. You installed xrdp, which will run a Windows Remote Desktop session. At the Windows Machine, open the Remote Desktop Connection Manager. Add a server with the IP number of the Ubuntu machine. Then the real magic happens!


Dunn_Ubuntu - Remote Desktop Connection Manager v2.2
File Edit Session View Remote Desktops Tools Help
MyMachines
192.168.9.100
192.168.9.130
Dunn_Ubuntu
dunn_ubuntu2
System Info
System Info
All Settings
Overview
Default Applications
Graphics
Ubuntu 11.10
Memory 1.1 GiB
Processor Intel® Xeon(R) CPU X5355 @ 2.66GHz
Graphics Unknown
OS type 64-bit
Disk 41.0 GB
Checking for Updates