CLI Instructions

Guide to a Headless Linux Install

Create a new VM Machine (Look at the instructions for the GUI if you forgot how)

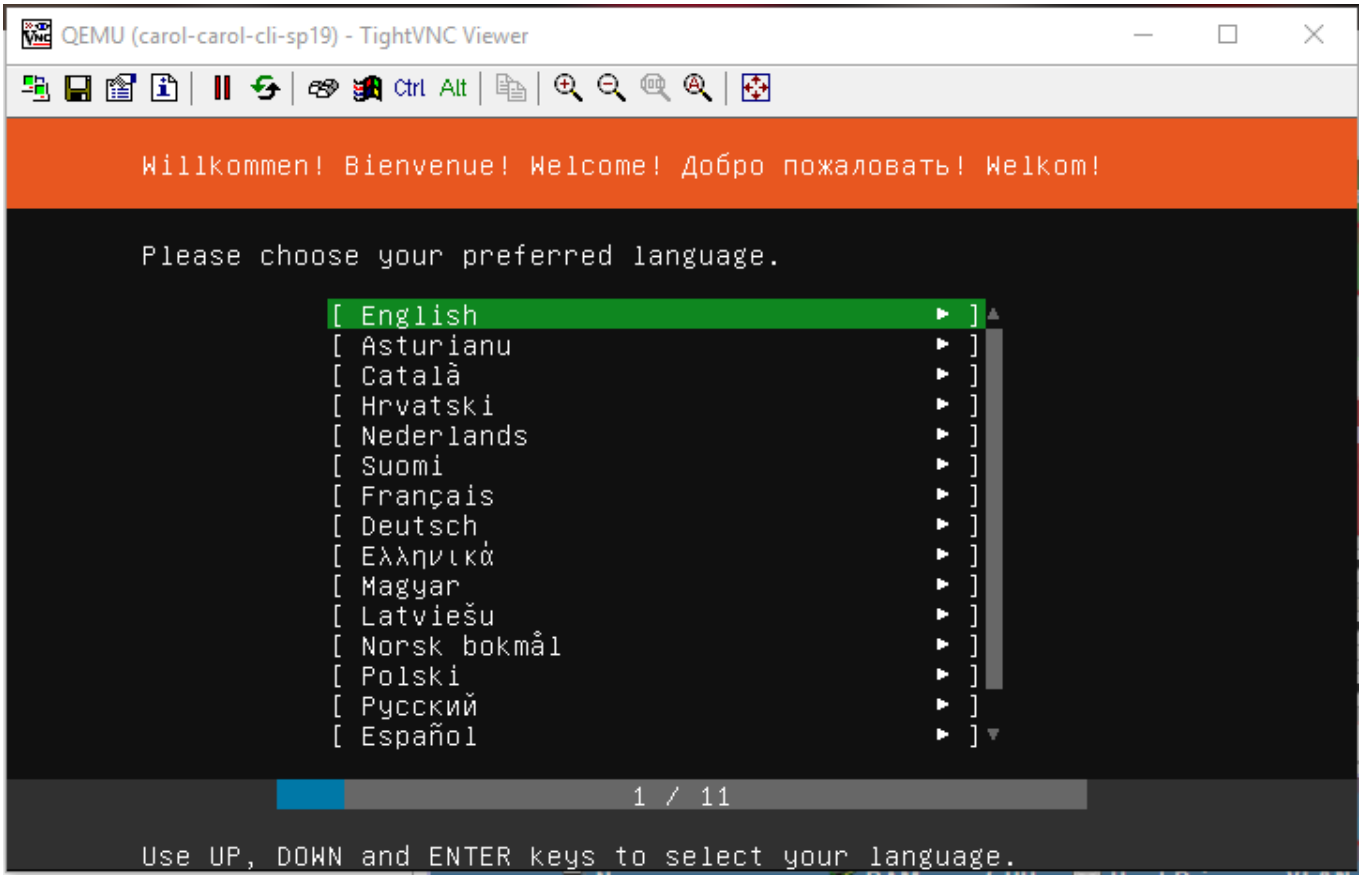
- Name: yourname-CLI
- RAM: 2048
- CPU: 2
- HD: 16G
- VLAN: assigned to you

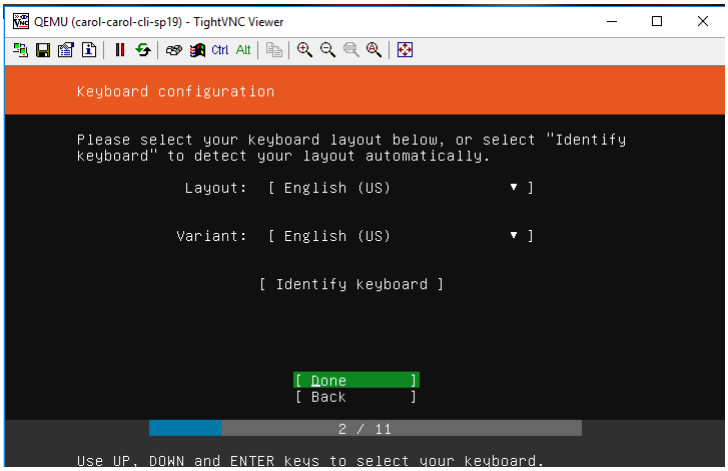
Booting your machine

- Boot: D Drive
- Image: jamming_server

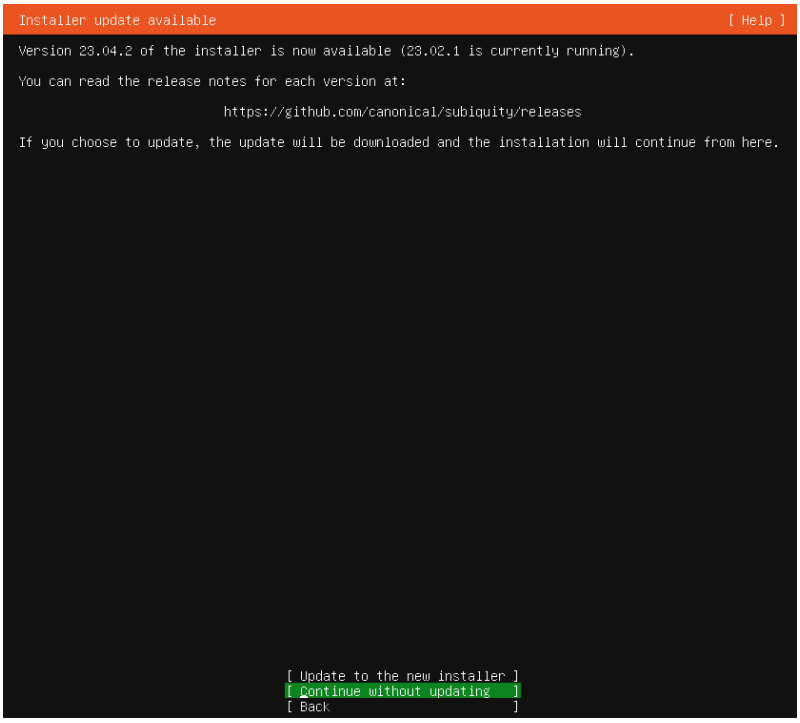
Note the VNC:Port of your new machine and have your VM Worksheet with the IP nums available.

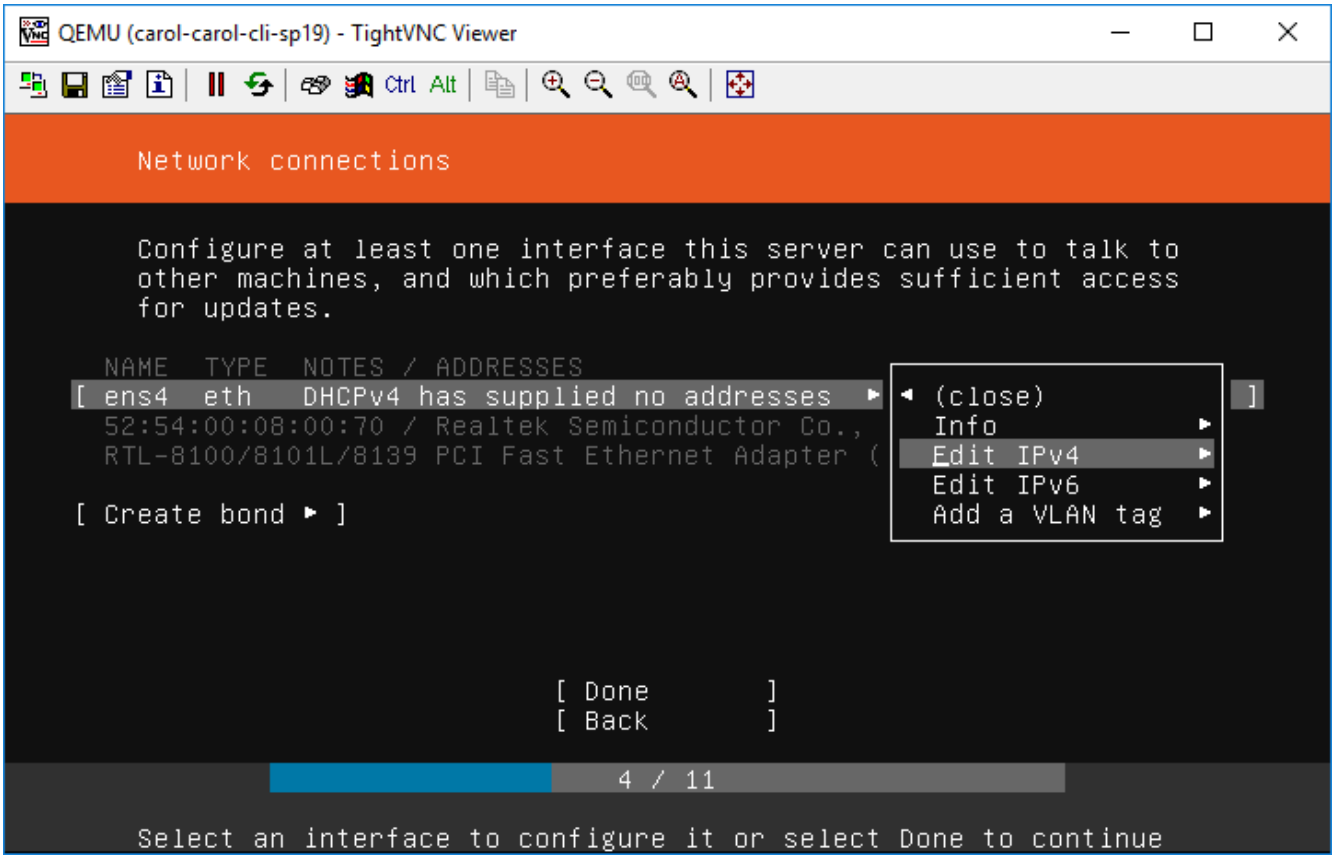
Remember that this is keyboard based – your mouse will not work.
Use tab and/or arrow keys to navigate and ENTER to select.



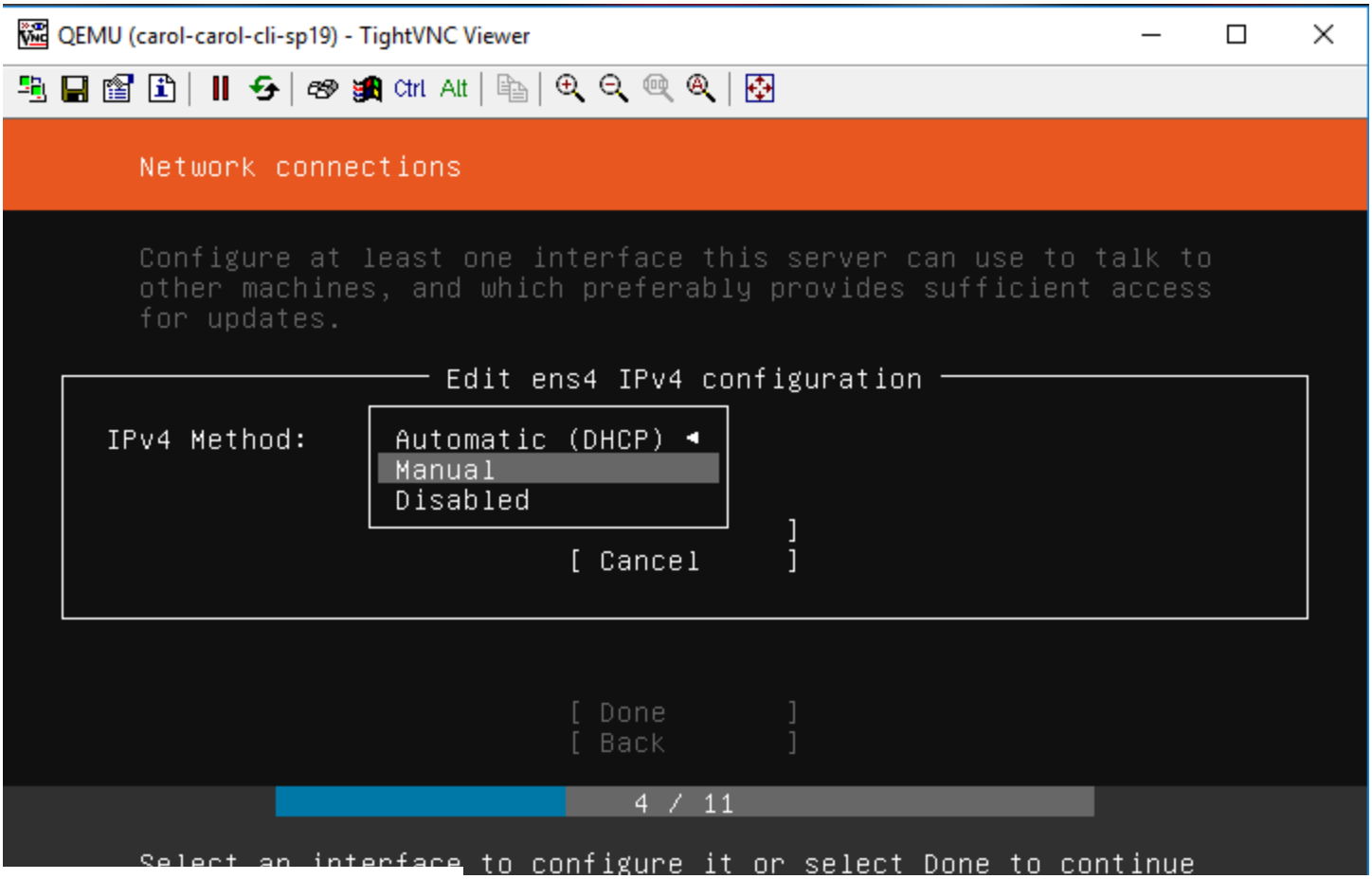


If you are asked to use an updated installer, choose **Continue without Updating**





VERY IMPORTANT – Do not automatically choose Done. You must arrow up and choose ens4 and then press enter to get the little box that allows you to choose 'Edit IPv4'. If you missed this note, you can use "Back" to get back to screen 4.



IP's:
144.38.218.8 – 144.38.218.15
VLAN:
3066
Gateway: (Starting IP + 1)
144.38.218.9

Subnet: (256 – 8 (IP's) = 248)
255.255.255.248
Broadcast: (Last IP in range)
144.38.218.15

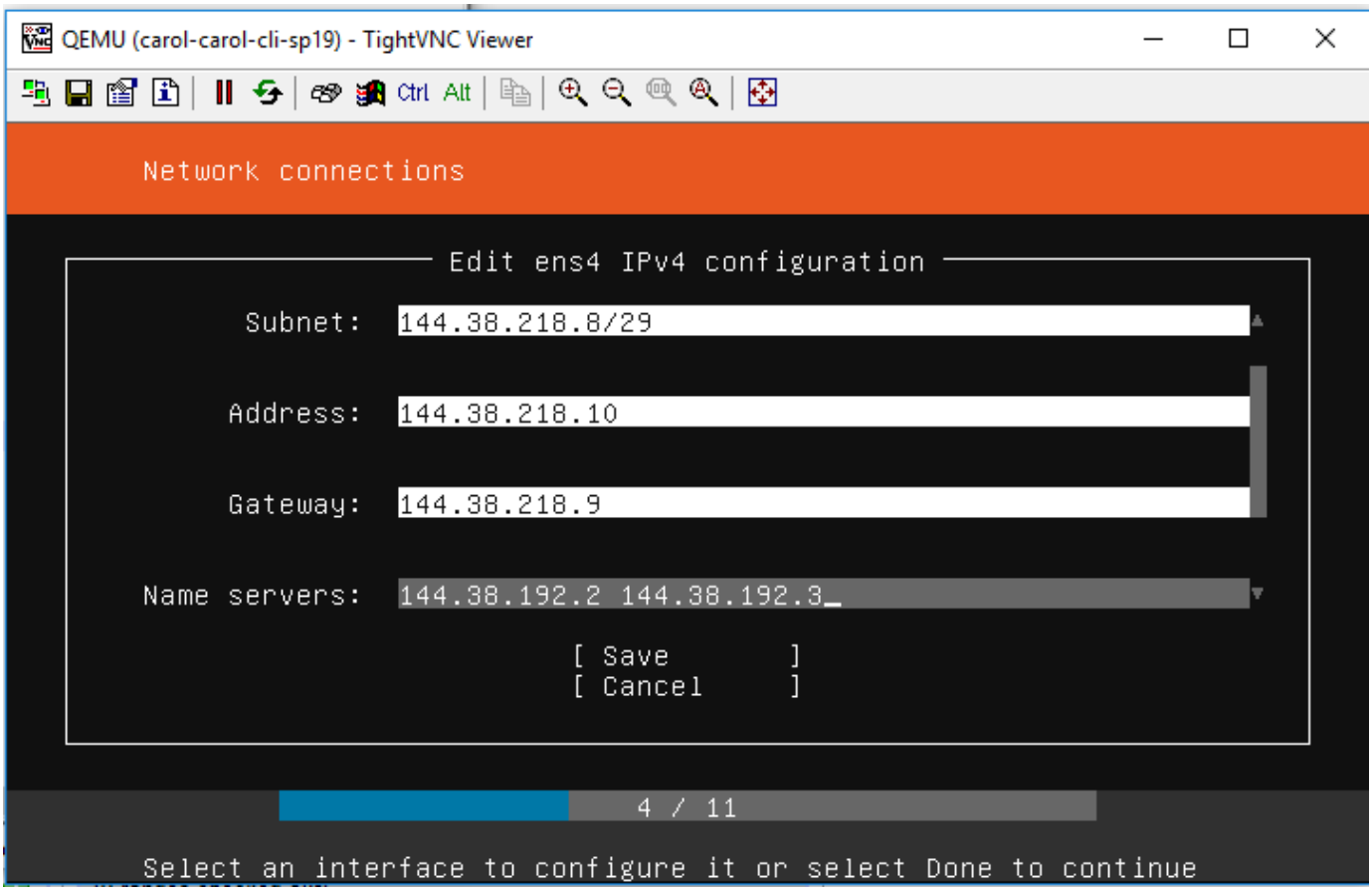
Usable IP's: (First = Starting IP + 2)
1. 144.38.218.10
2. 144.38.218.11 (bionic desktop)
3. 144.38.218.12
4. 144.38.218.13
5. 144.38.218.14

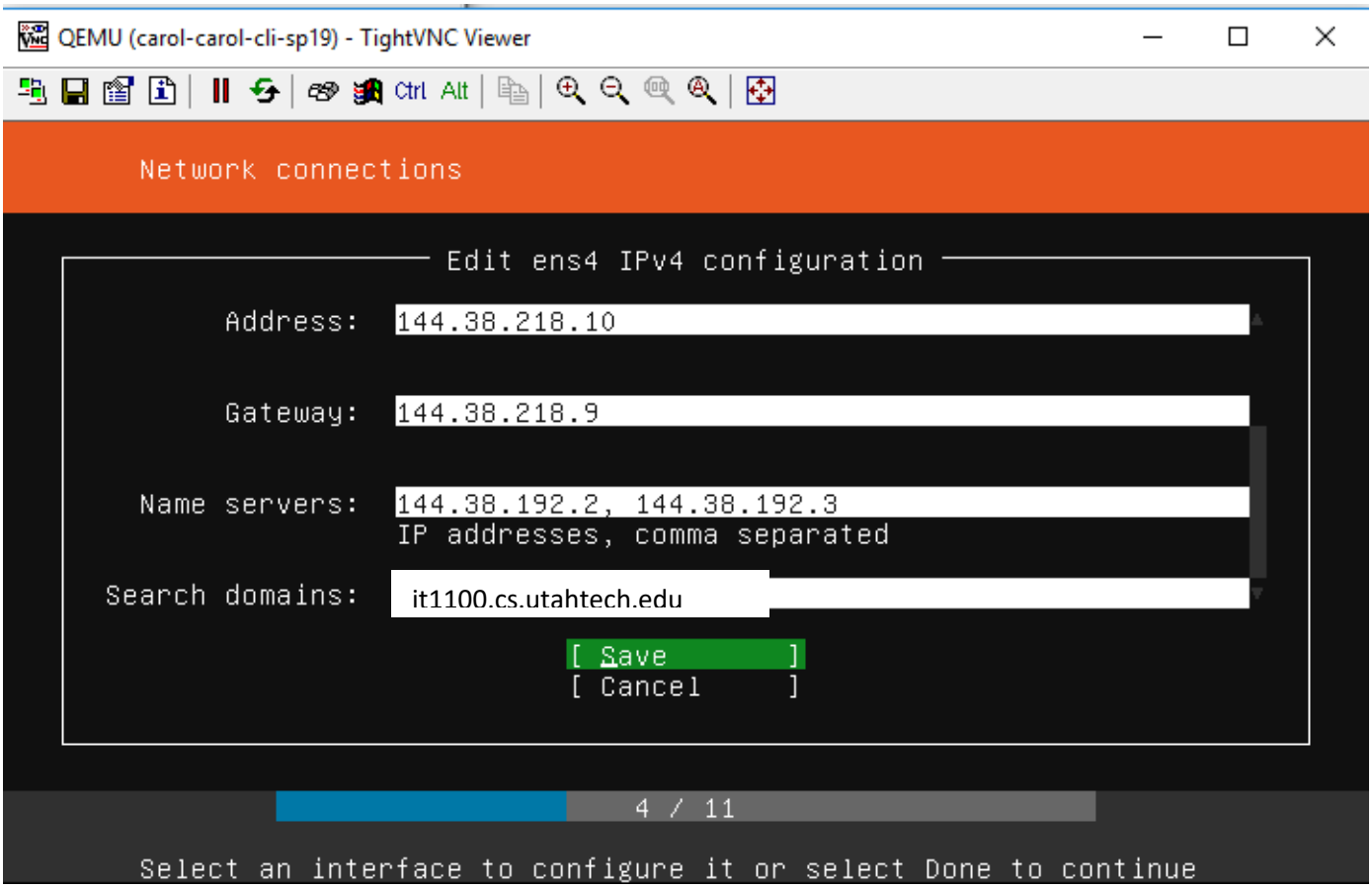
DNS Servers
144.38.192.2, 144.38.192.3

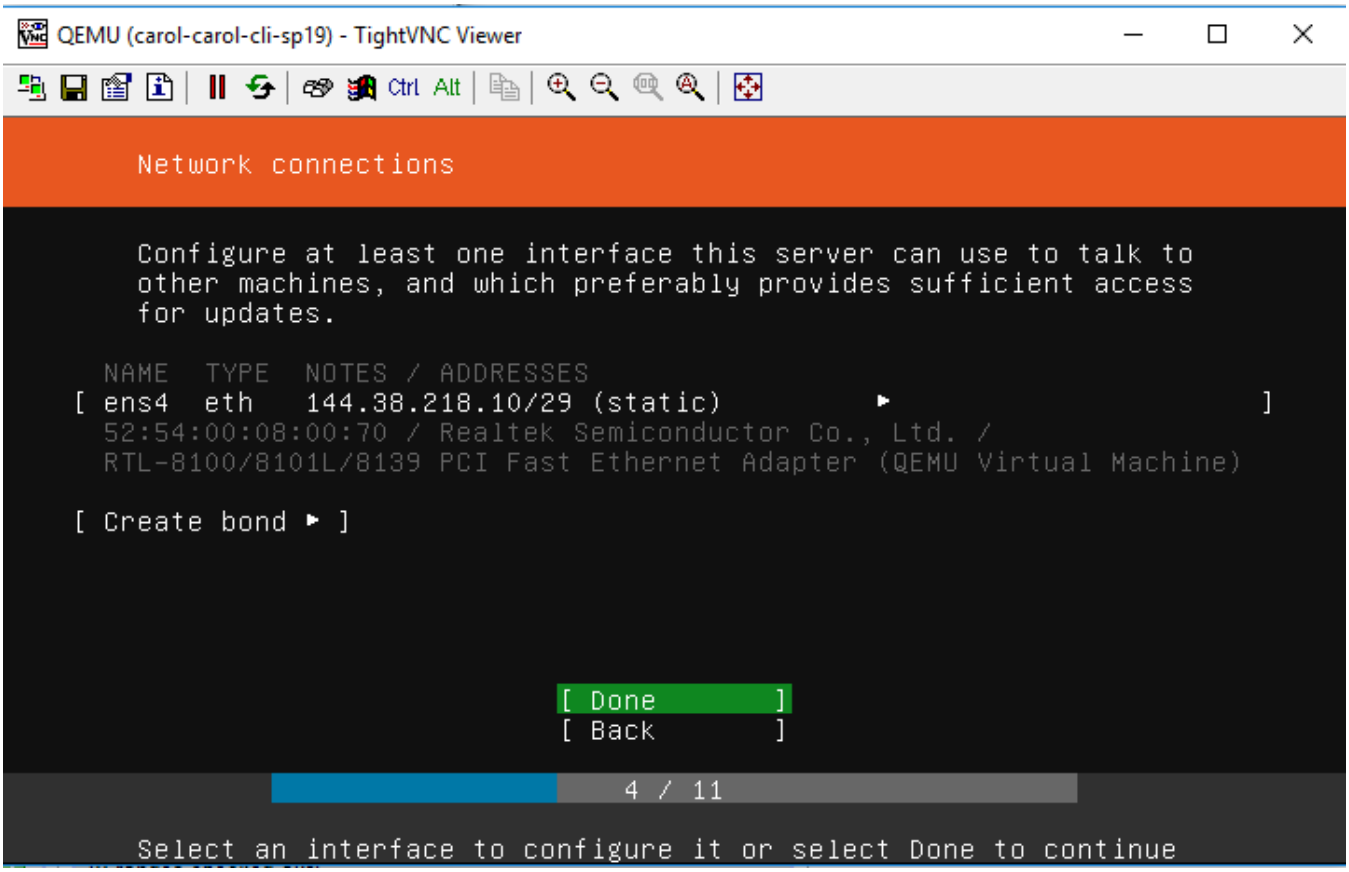
Search domains:
it1100.cs.dixie.edu

You must enter the information manually. The subnet is different than on the GUI install. It is in CIDR notation. That means that it will take your first IP address and then add /29 to the end.

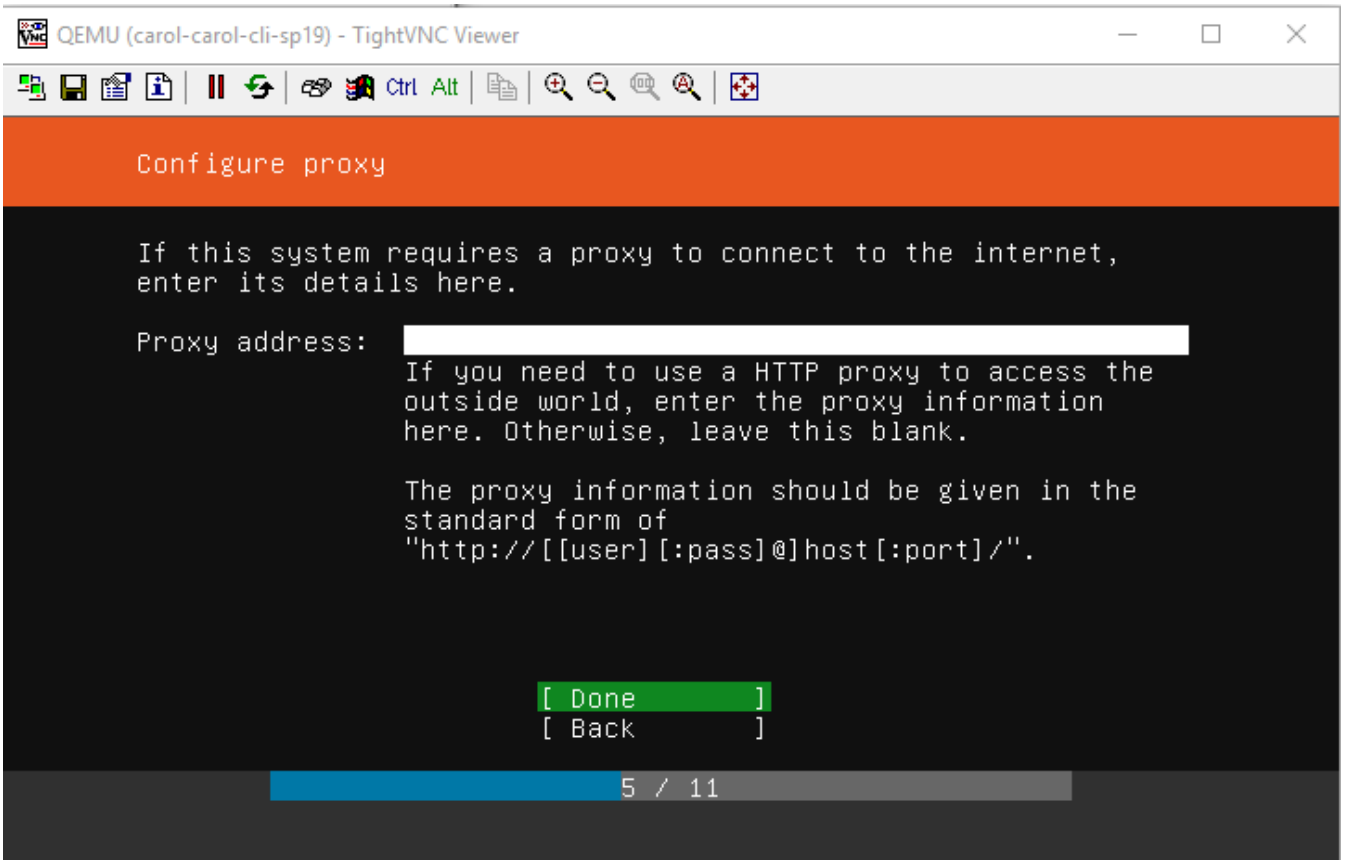
Subnet: 144.38.218.8/29
Address: 144.38.218.10
(One of your 5 usable addresses)
Name servers: 144.38.192.2, 144.38.192.3
Search domains: it1100.cs.utahtech.edu

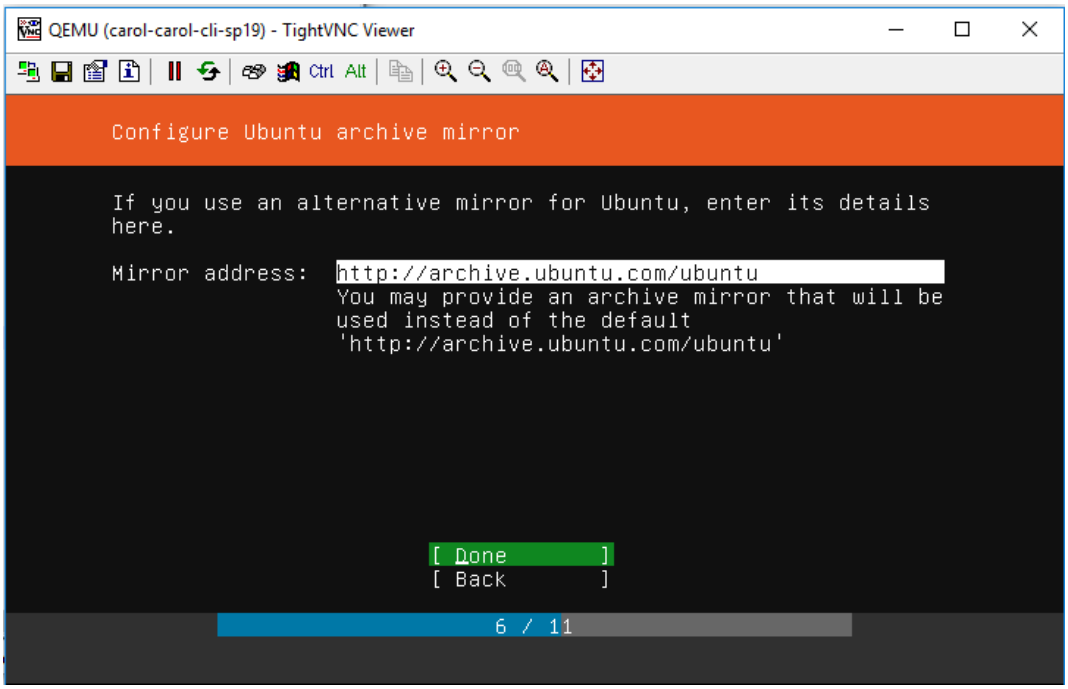

QEMU (carol-carol-cli-sp19) - TightVNC Viewer
Ctrl Alt
Network connections
Edit ens4 IPv4 configuration
Subnet: 144.38.218.8/29
Address: 144.38.218.10
Gateway: 144.38.218.9
Name servers: 144.38.192.2 144.38.192.3
[Save]
[Cancel]
4 / 11
Select an interface to configure it or select Done to continue


QEMU (carol-carol-cli-sp19) - TightVNC Viewer
Ctrl Alt
Network connections
Edit ens4 IPv4 configuration
Address: 144.38.218.10
Gateway: 144.38.218.9
Name servers: 144.38.192.2, 144.38.192.3
IP addresses, comma separated
Search domains: it1100.cs.utahtech.edu
[Save]
[Cancel]
4 / 11
Select an interface to configure it or select Done to continue

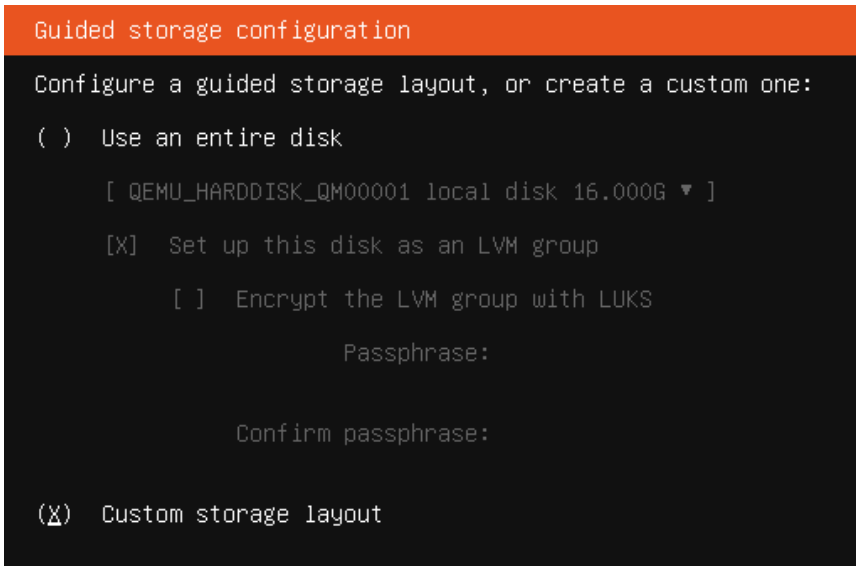


Don’t need to enter a Proxy address





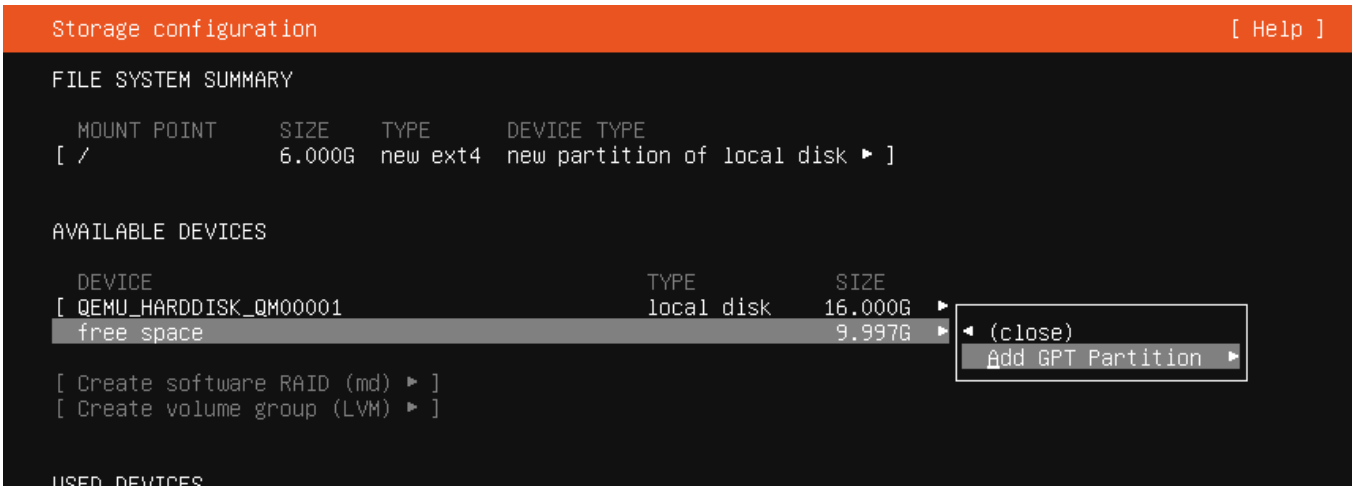
Custom Storage Layout:



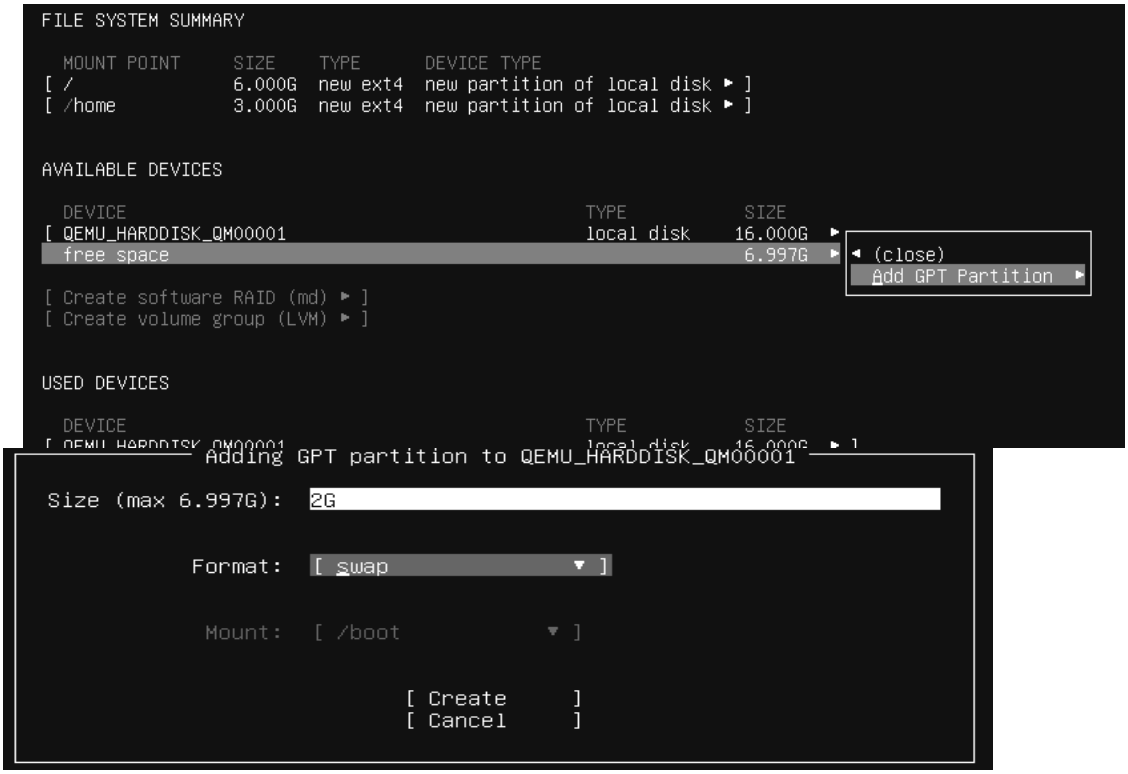
Add GPT Partition:

For the root, make it 6G, then Create :

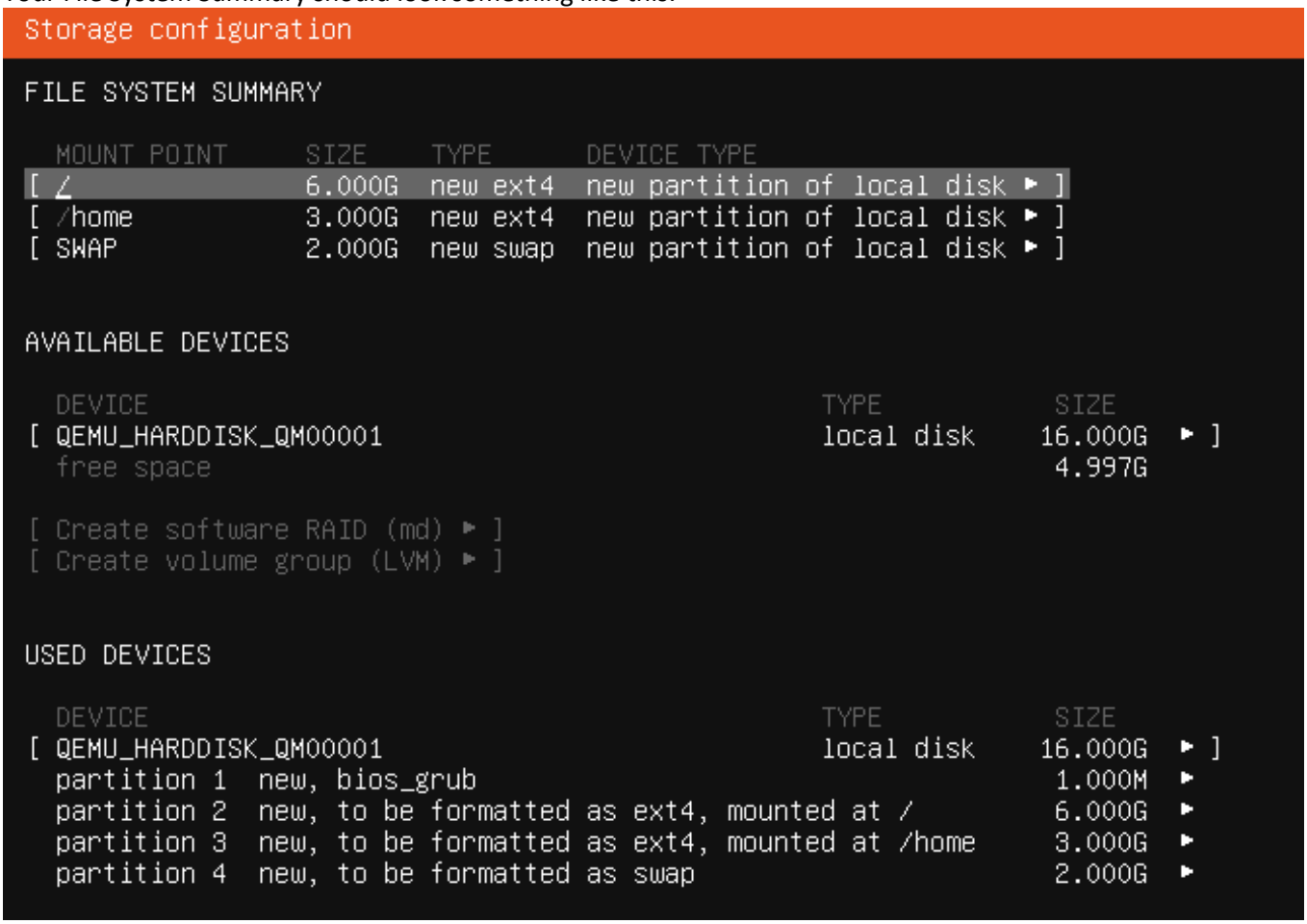
Add another GPT partition, this time 3G with /home for the mount point:



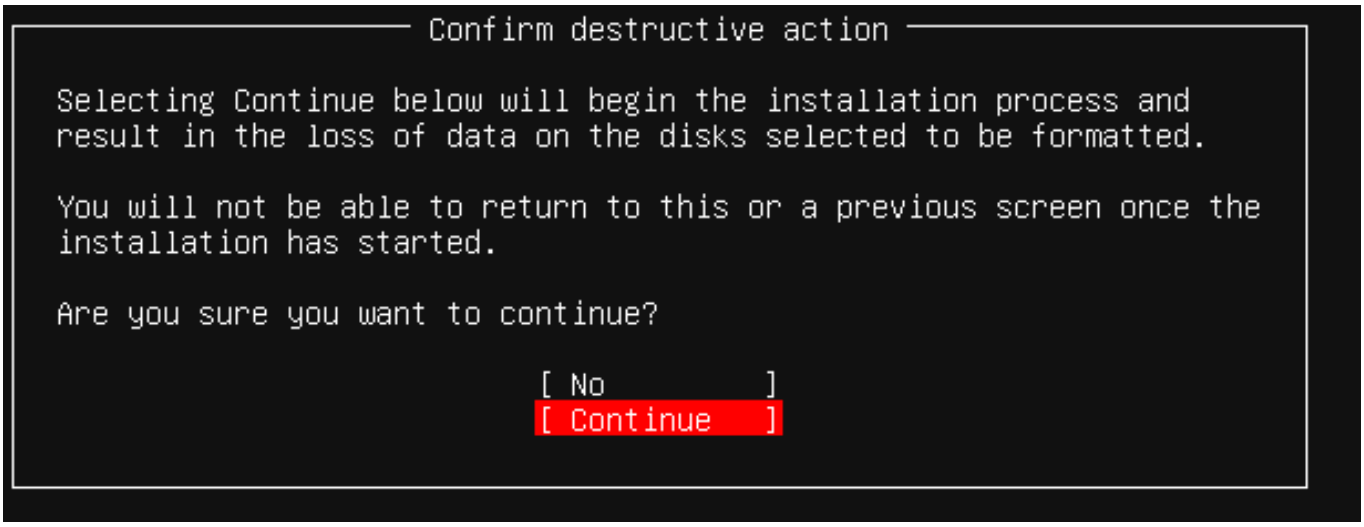
Add another GPT partition. This time a swap, 2G:

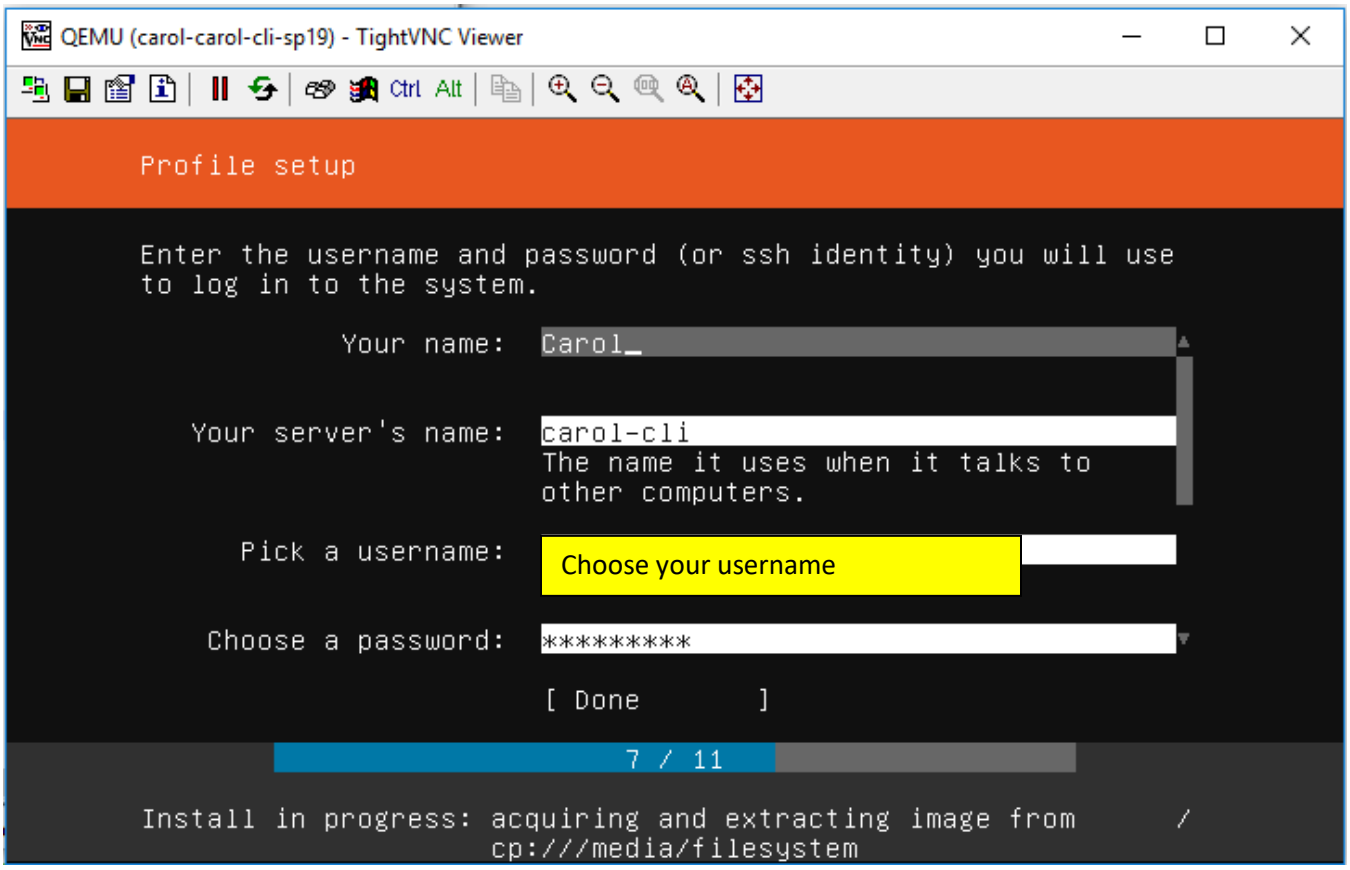


Your File System Summary should look something like this:

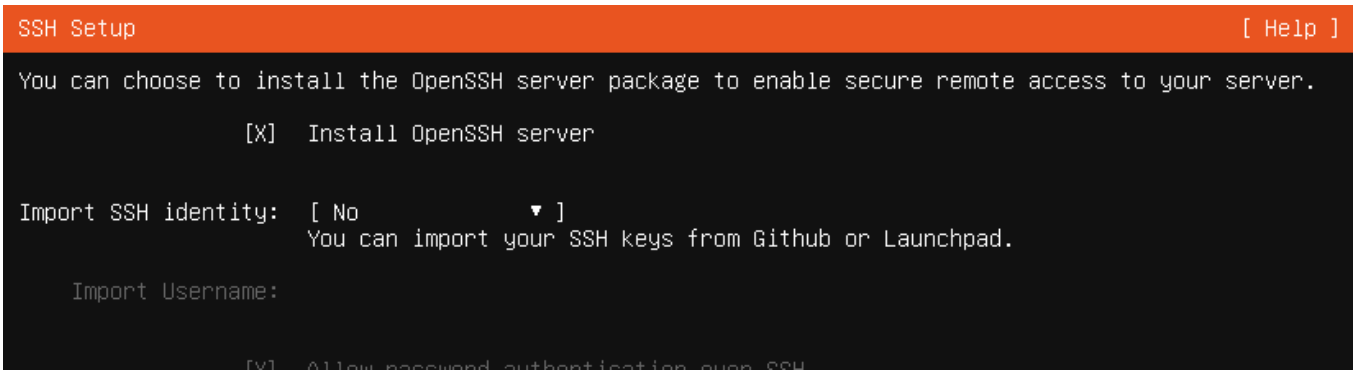


Select Done. Confirm destructive action.

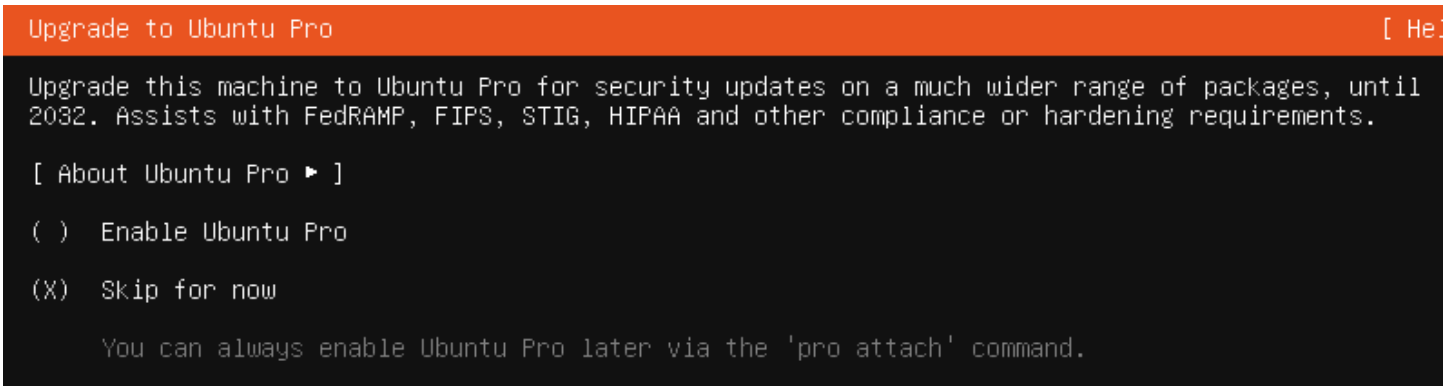




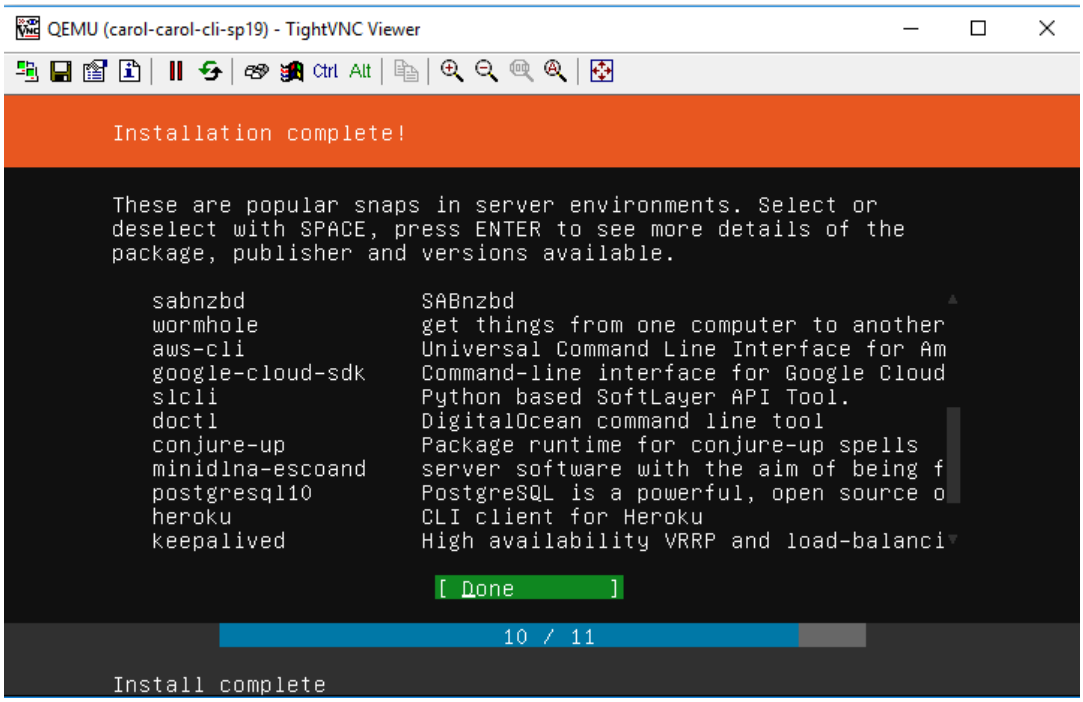
Install OpenSSH server:

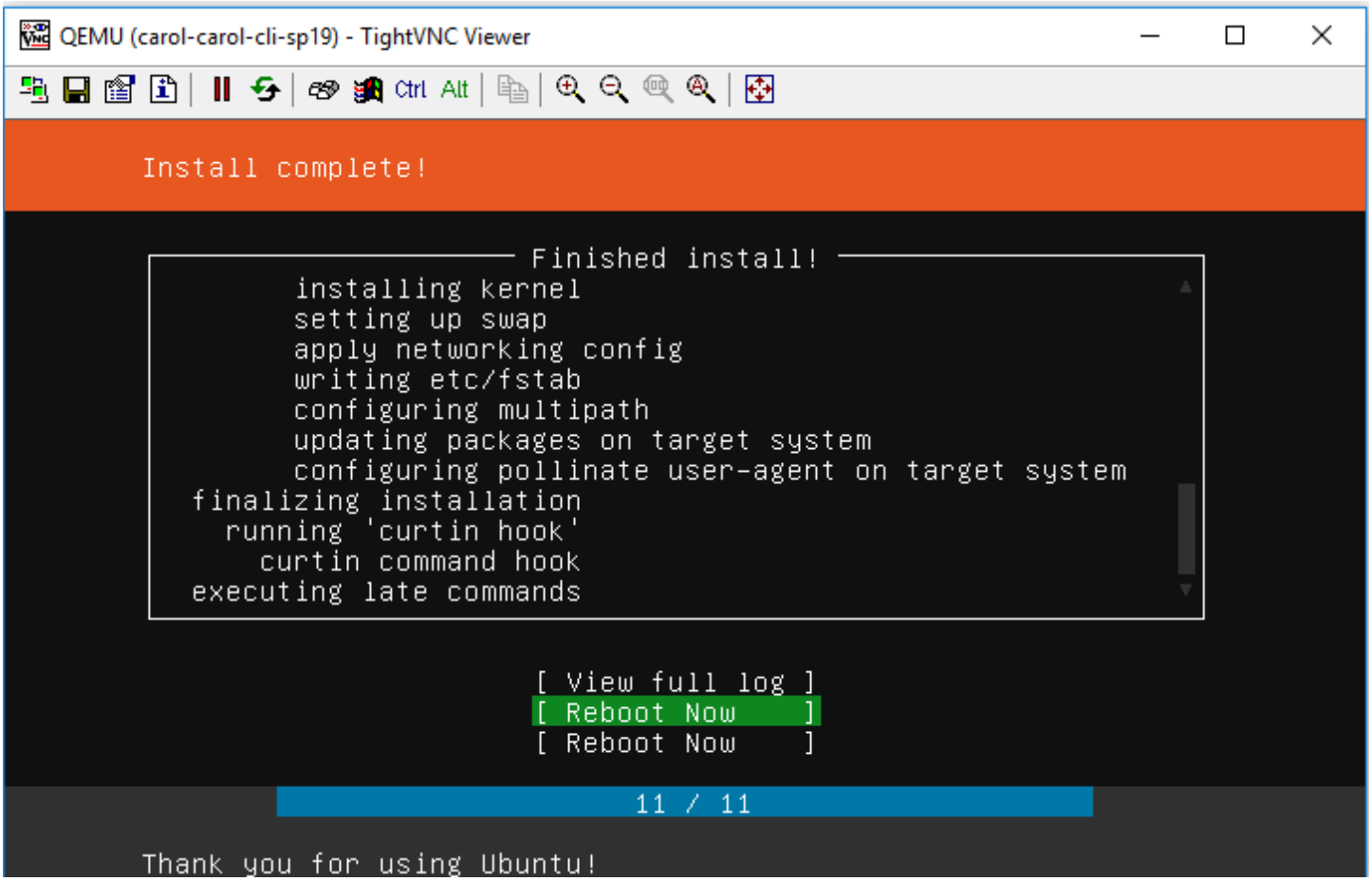


If you are asked to Upgrade to Ubuntu Pro, choose **Skip for Now**



Don’t choose any of the snaps.





You must turn your machine off manually and then turn it back on booting off the c drive.
Check your machine:port so that you can get back in.

This completes part I of assignment 7. There is much more you need to do. Please refer to the instructions for assignment 7 here: http://computing.utahtech.edu/it/1100/projects.examples/lab7.php