

CLI Instructions

Guide to a Headless Linux Install

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

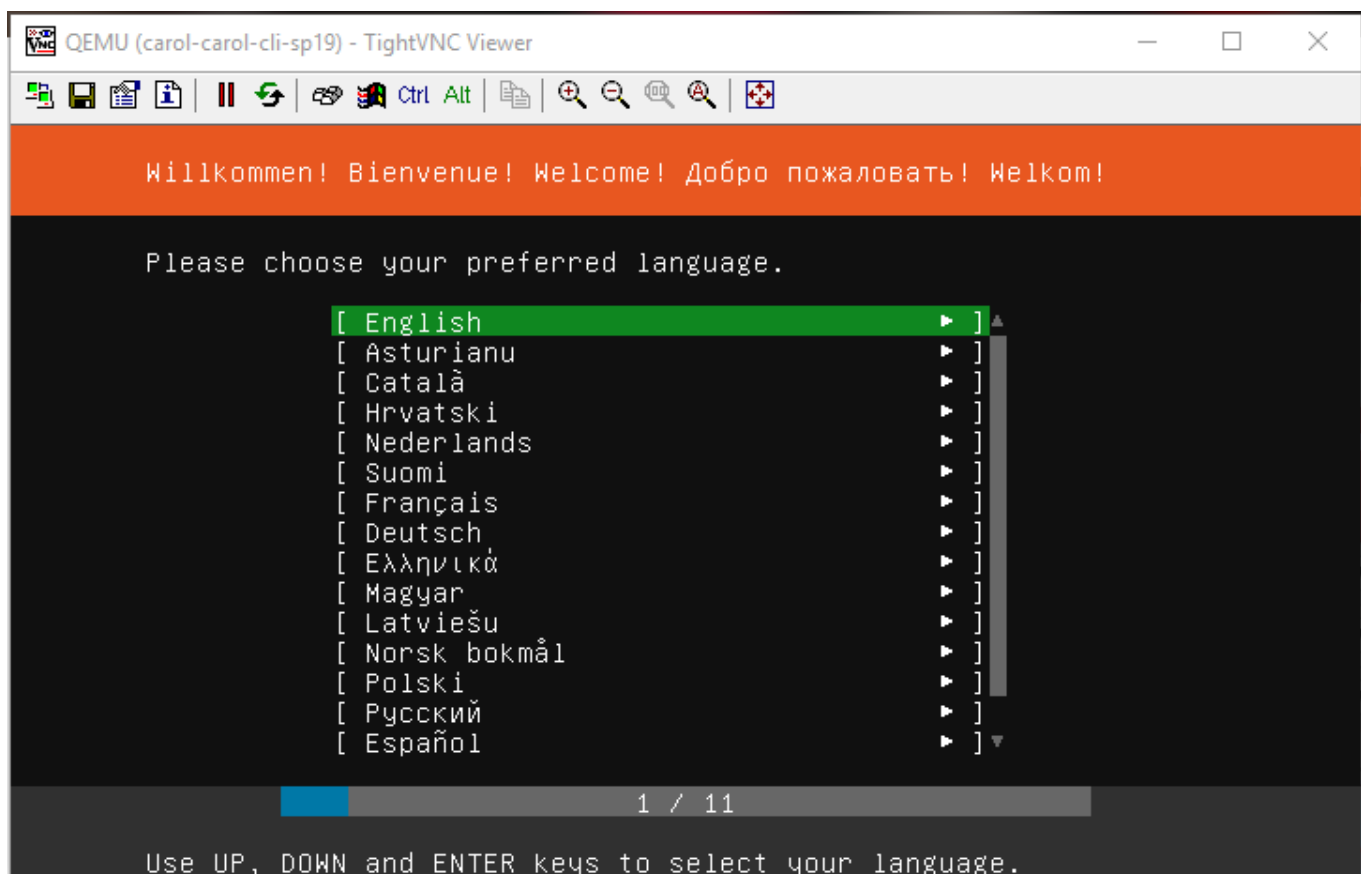
- Name: yourname-CLI
- RAM: 2048
- CPU: 2
- HD: 16G
- VLAN: assigned to you

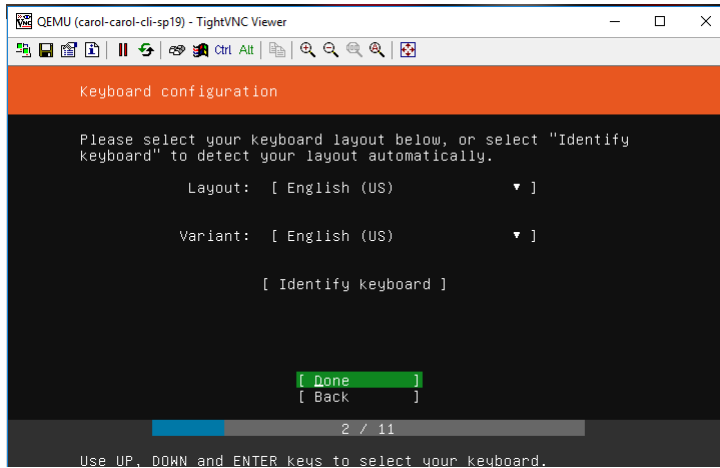
Booting your machine

- Boot: D Drive
- Image: jamming_server

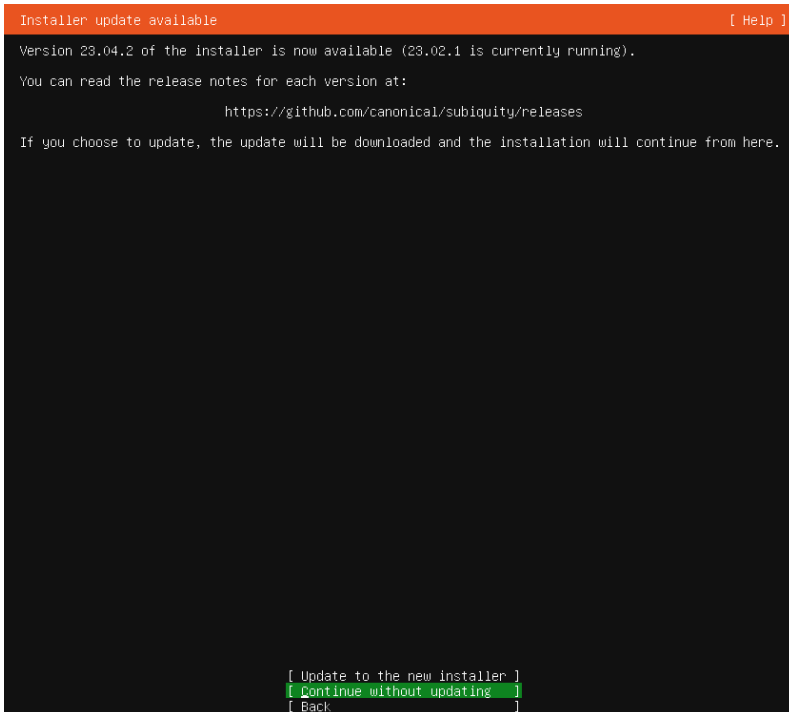
Note the VNC:Port of your new machine and have your VM Worksheet with the IP nums available.

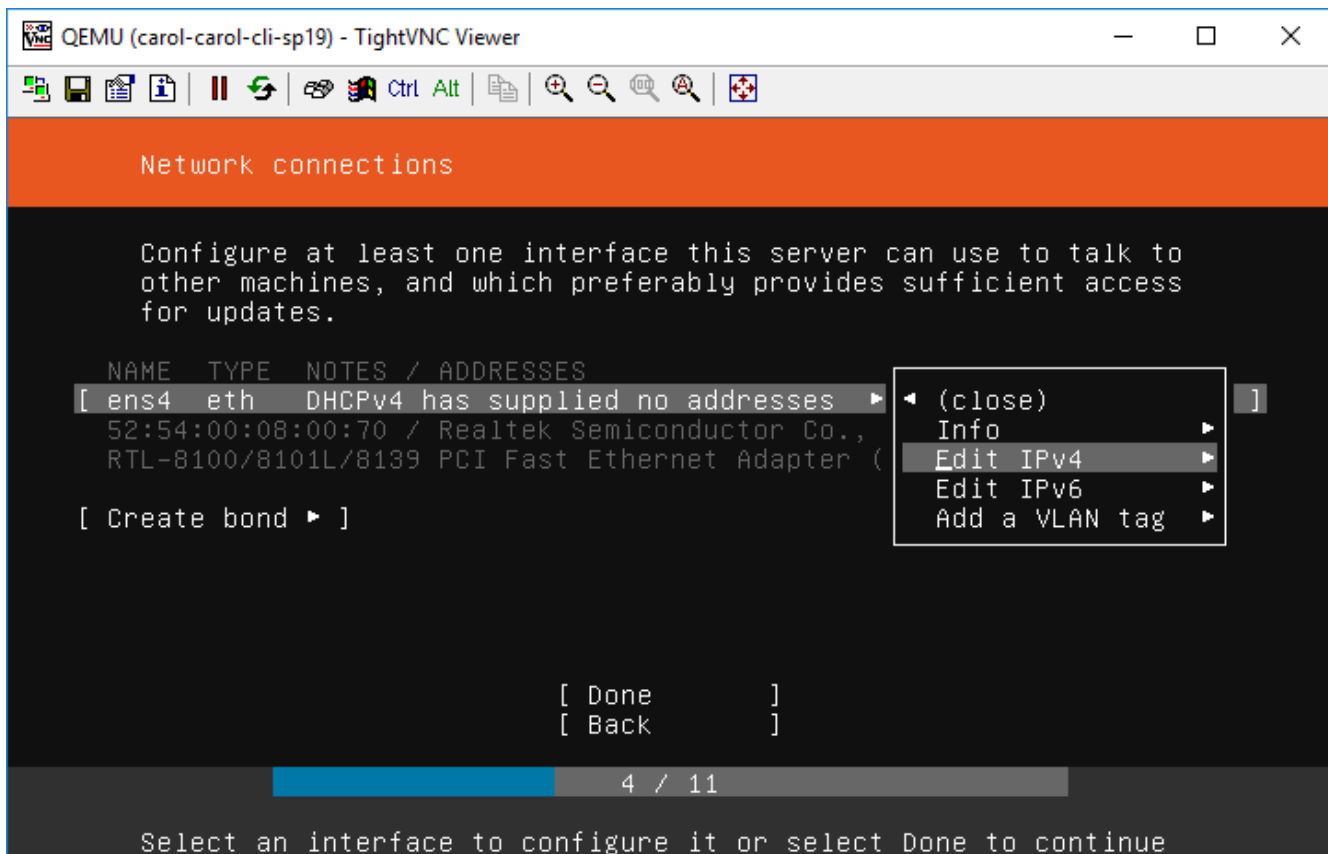
Remember that this is keyboard based – your mouse will not work.
Use tab and/or arrow keys to navigate and ENTER to select.





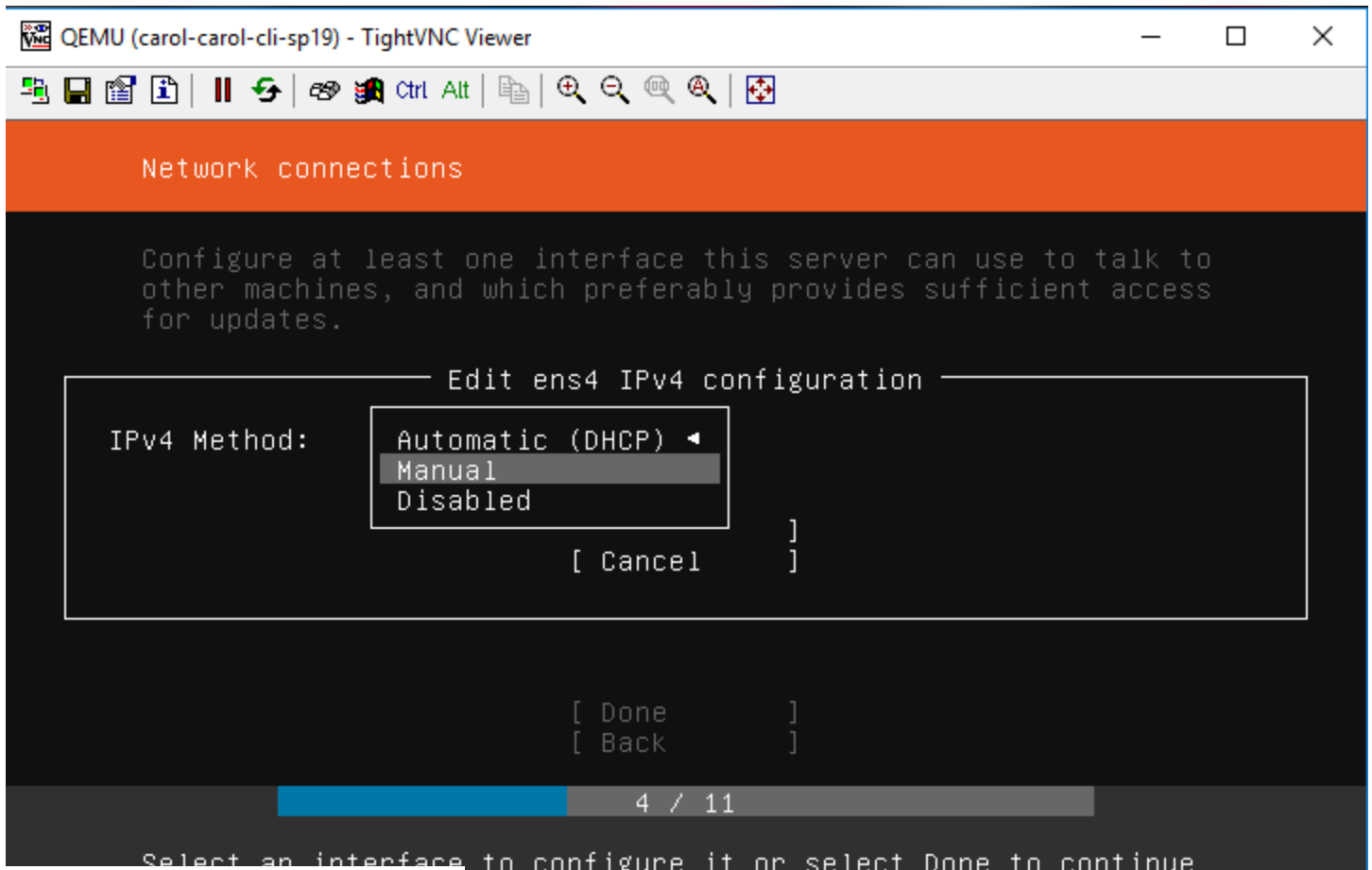
If you are asked to use an updated installer, choose **Continue without Updating**





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.

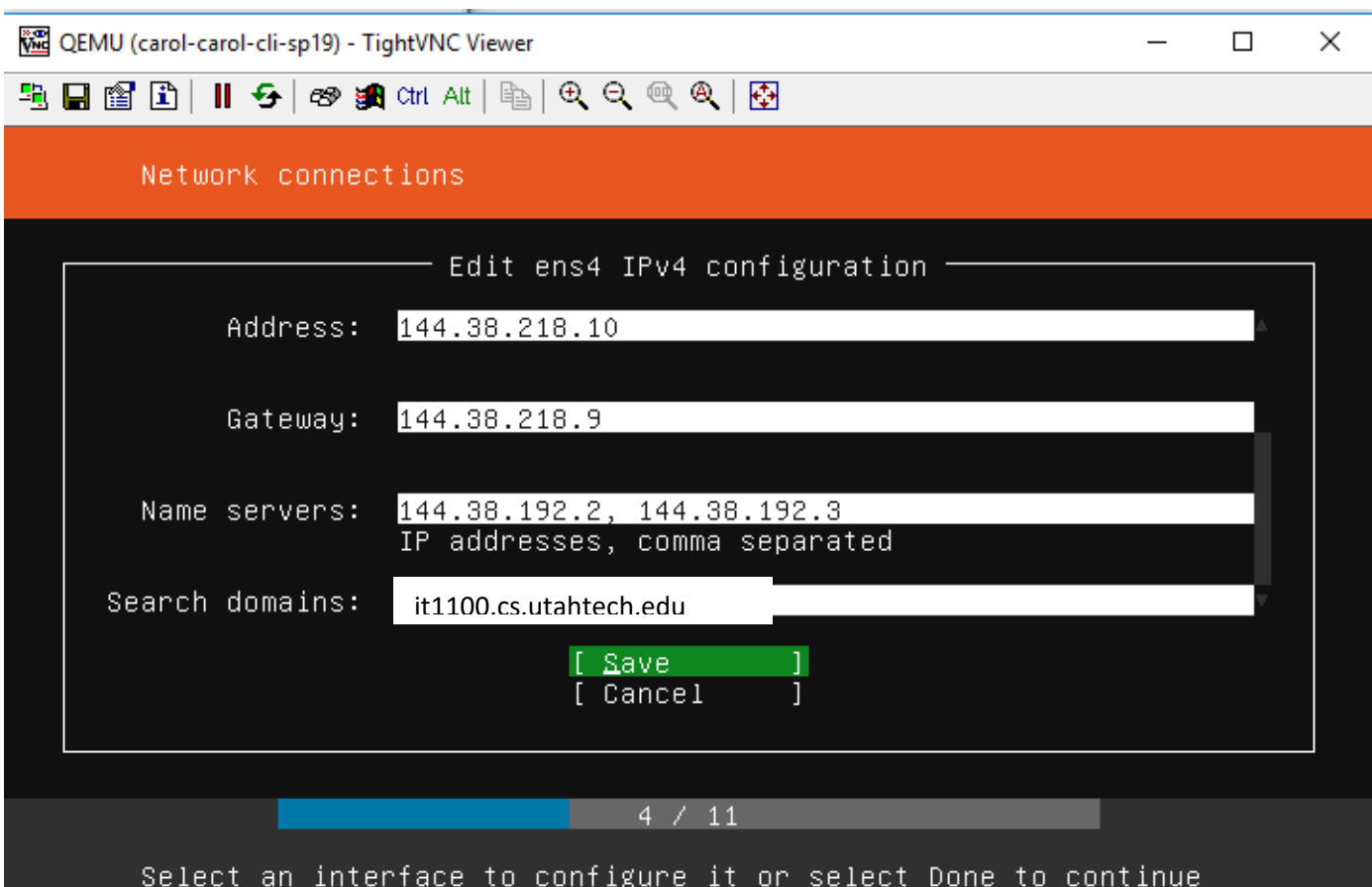
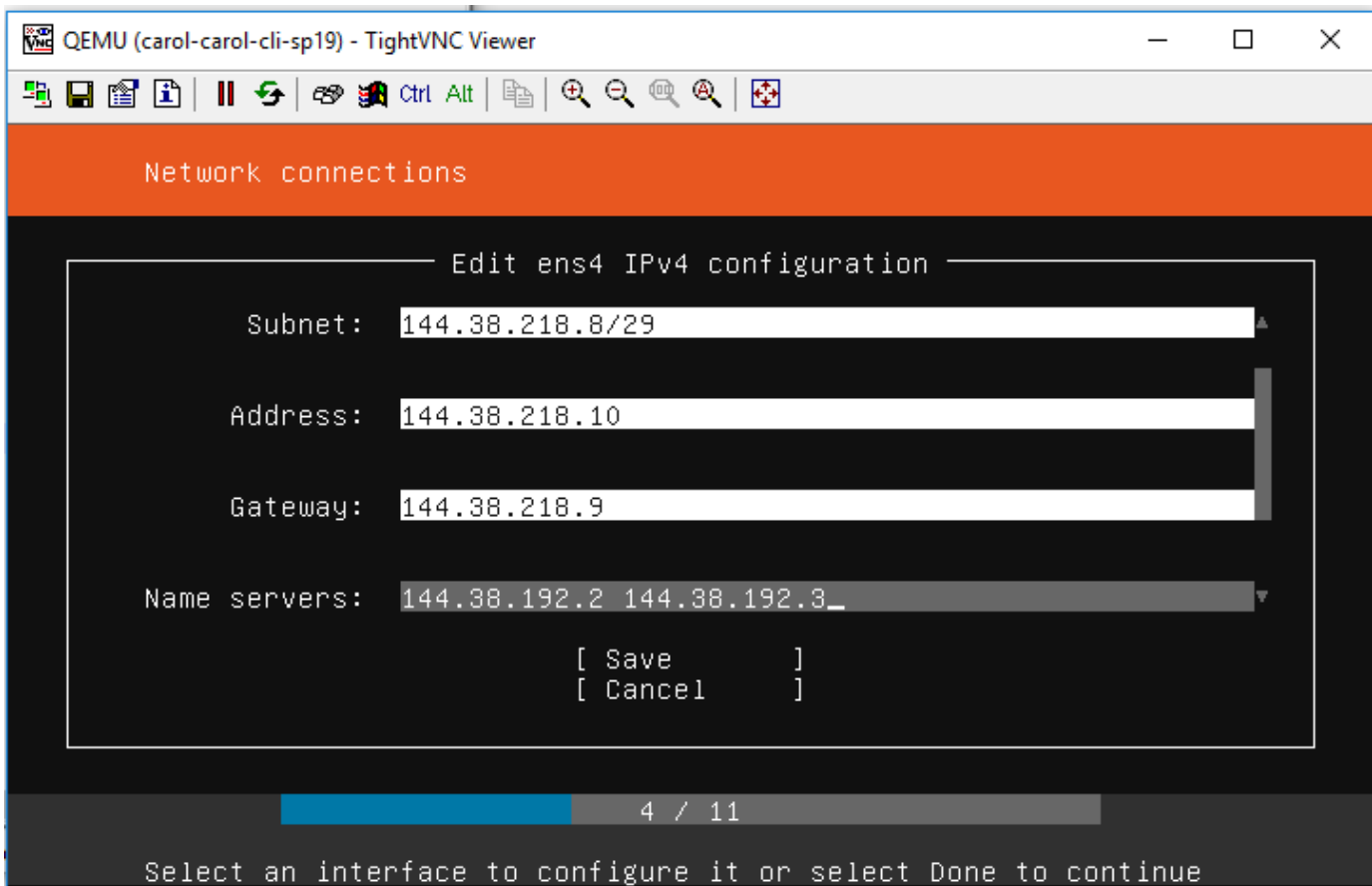
Subnet: 144.38.218.8/29

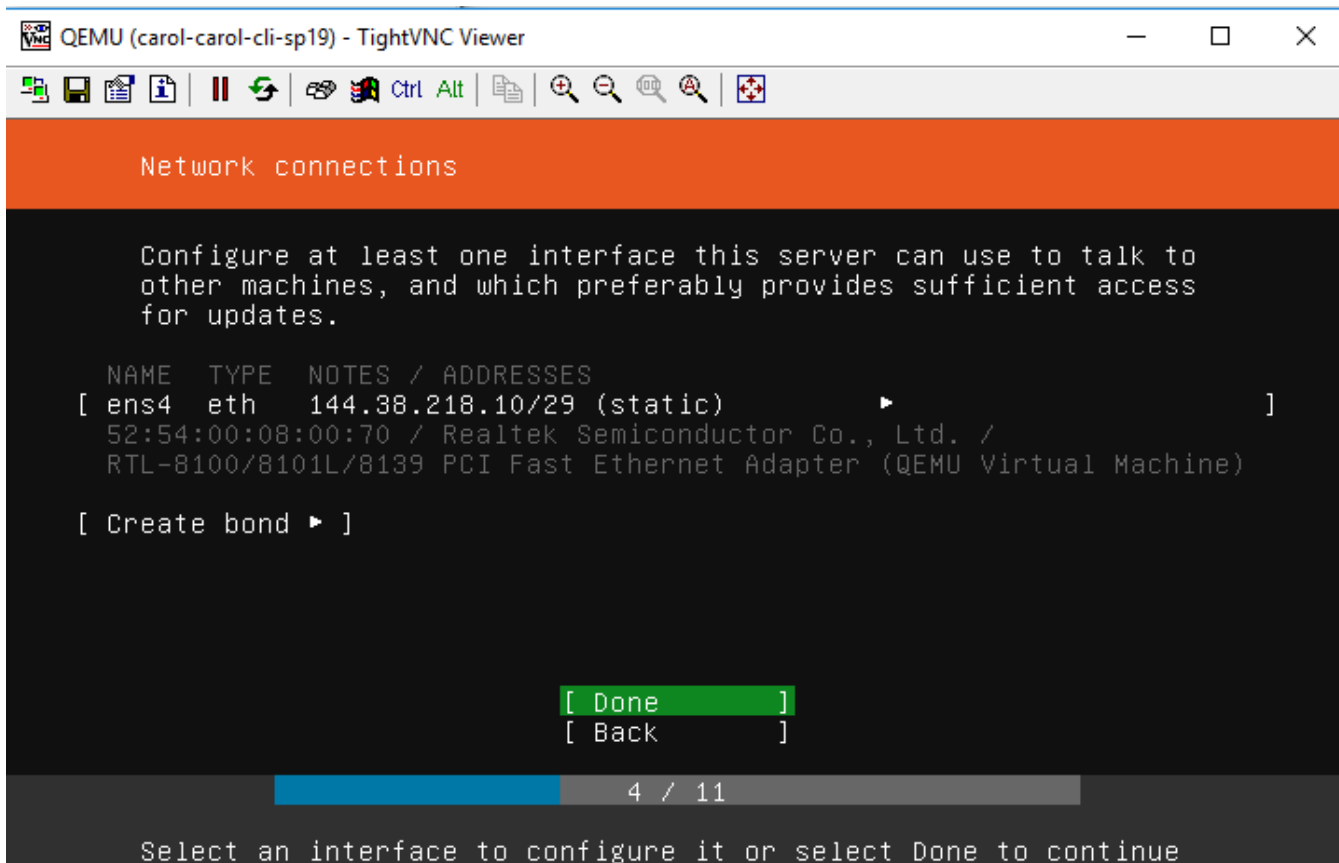
Address: 144.38.218.10

(One of your 5 usable addresses)

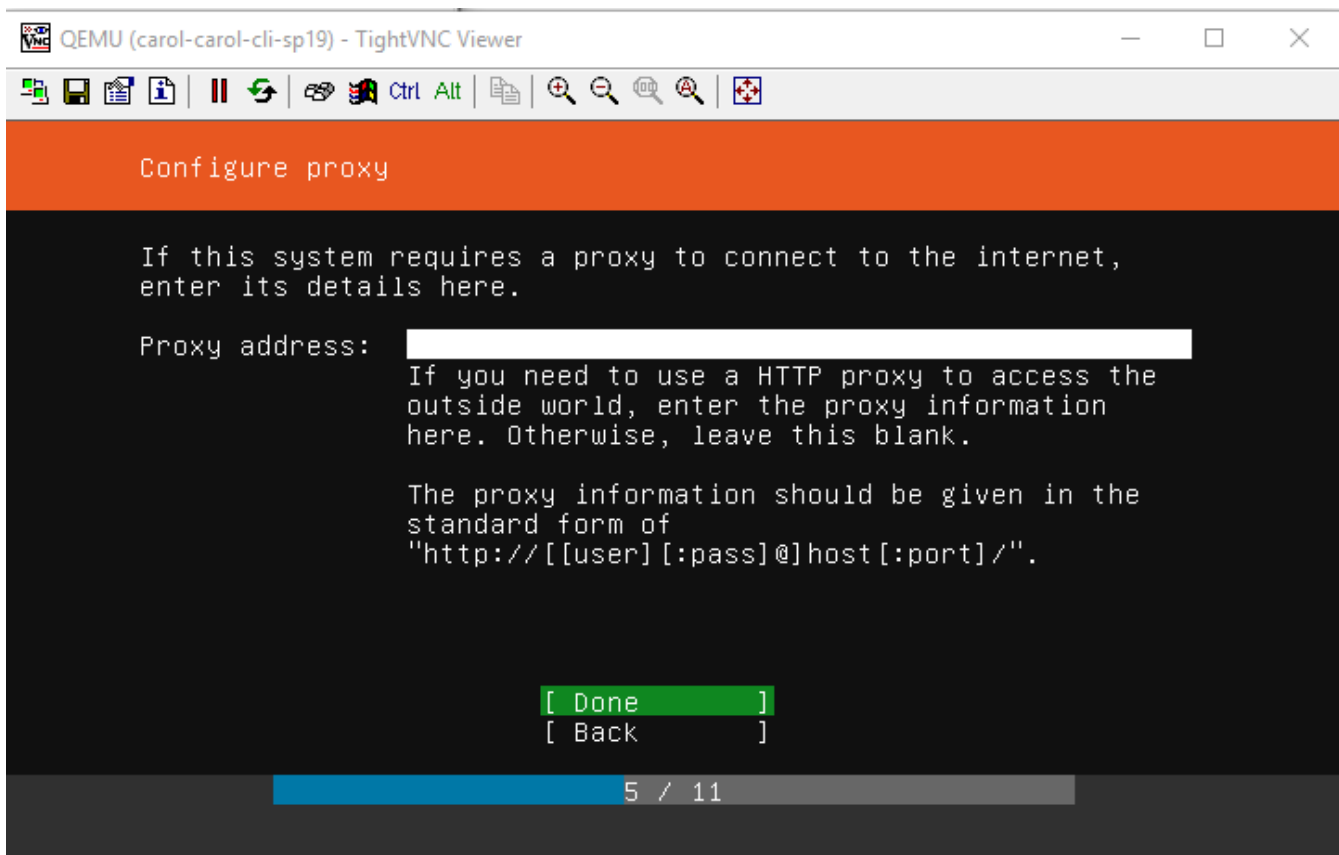
**Name servers: 144.38.192.2,
144.38.192.3**

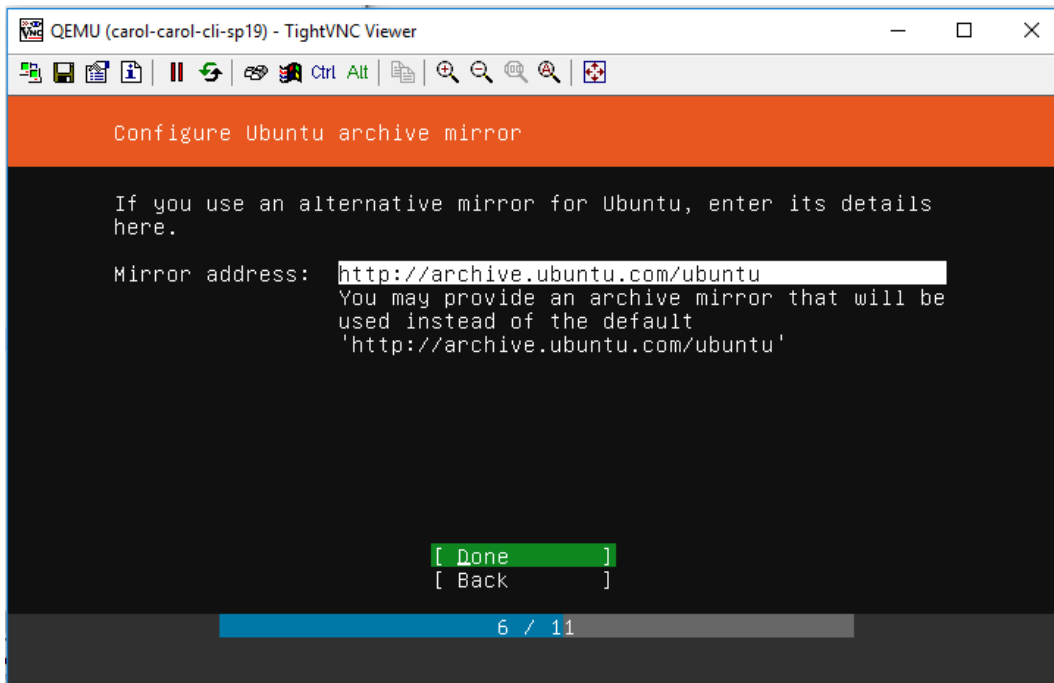
Search domains: it1100.cs.utahtech.edu



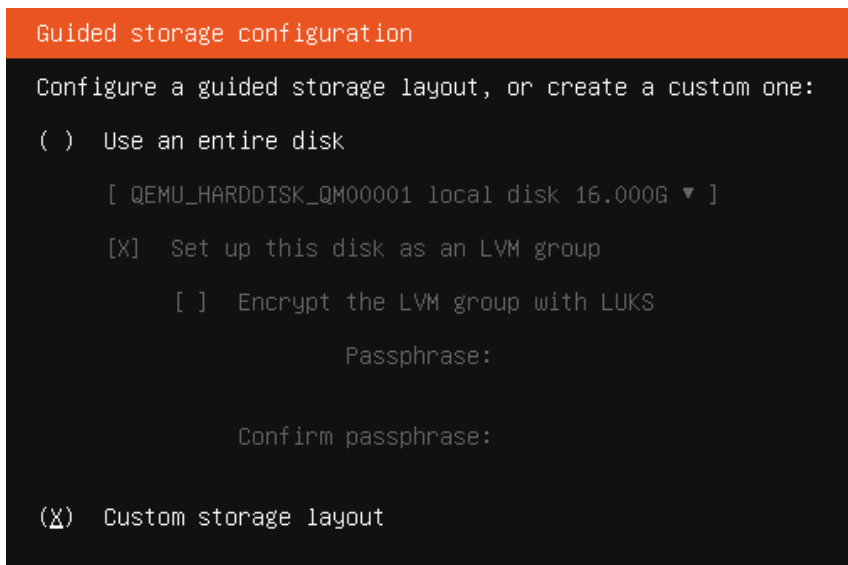


Don't need to enter a Proxy address

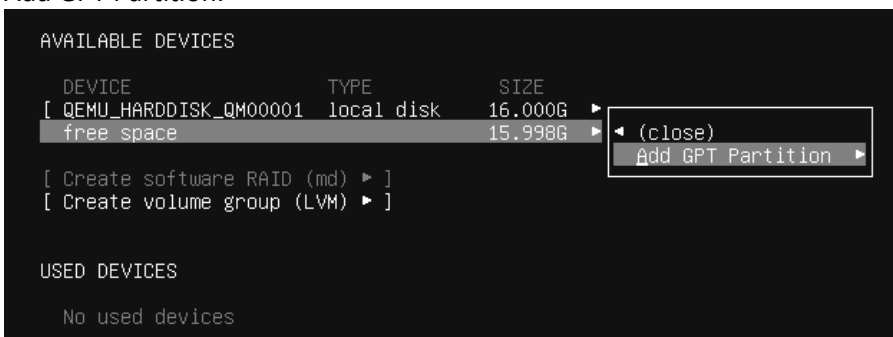




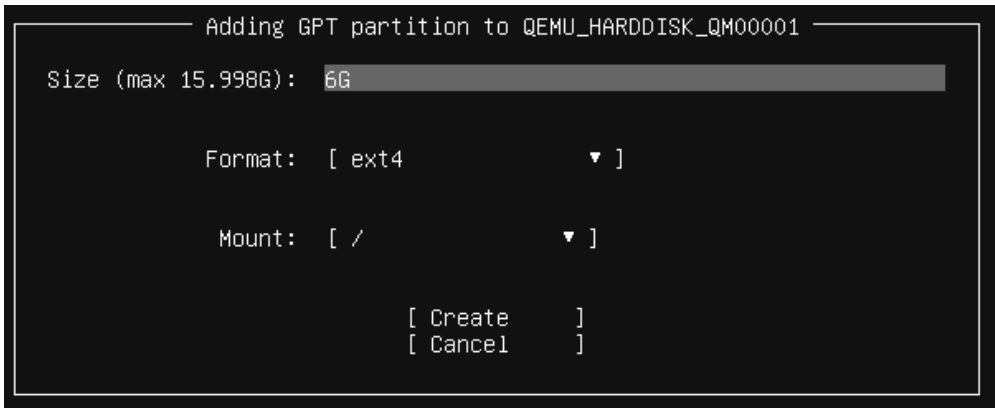
Custom Storage Layout:



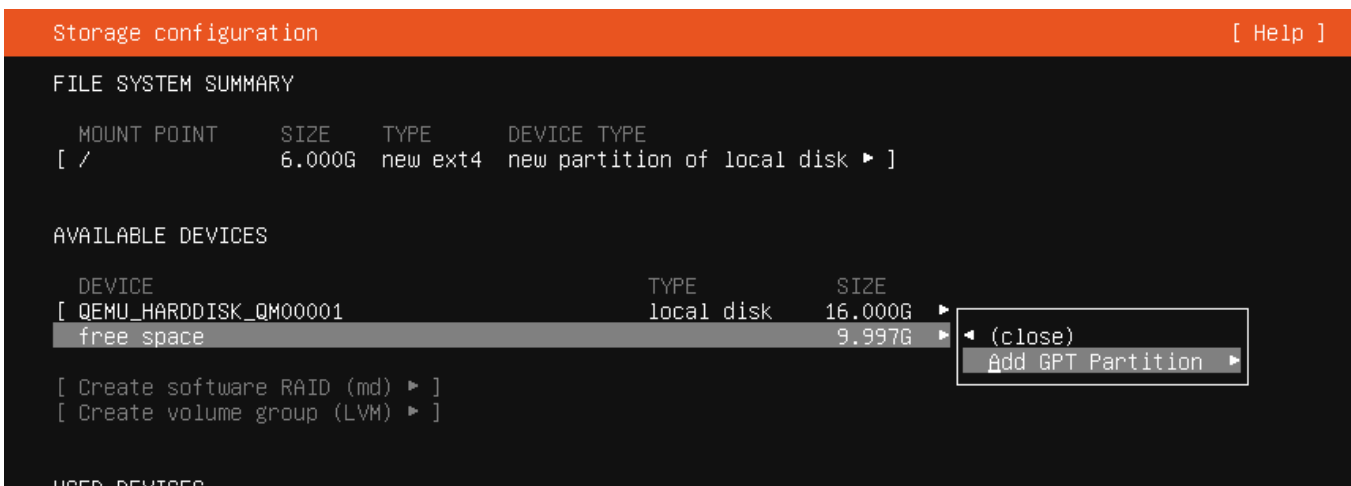
Add GPT Partition:



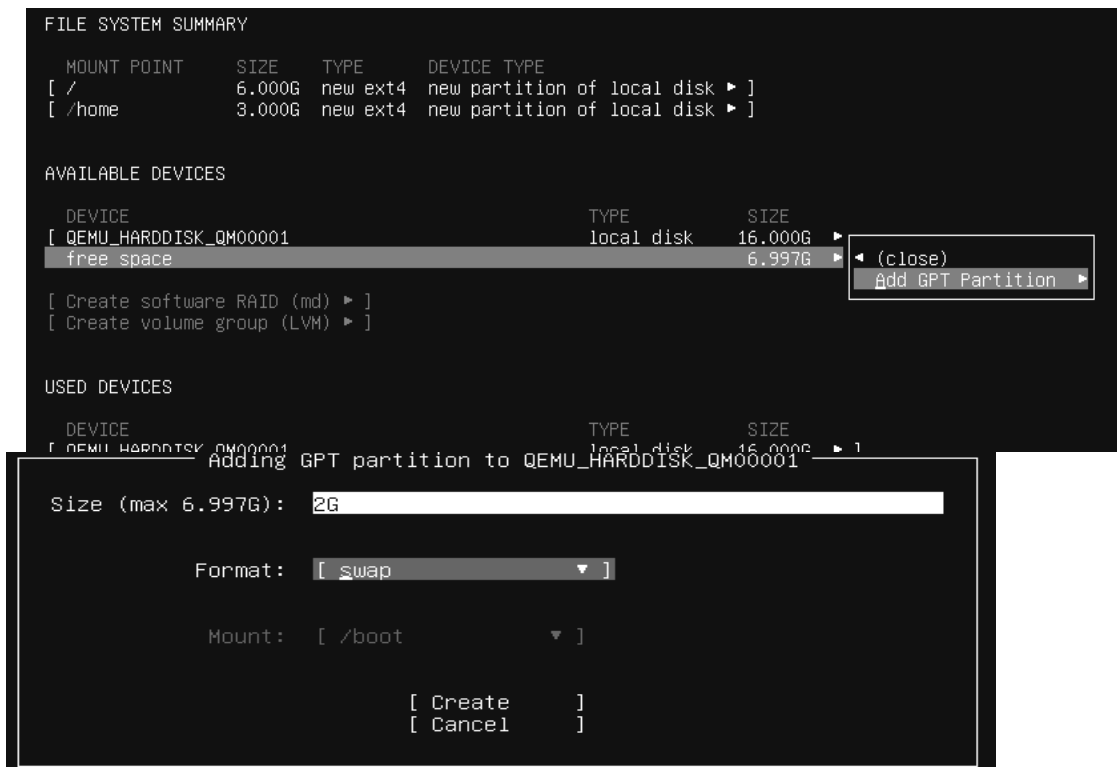
For the root, make it 6G, then Create :



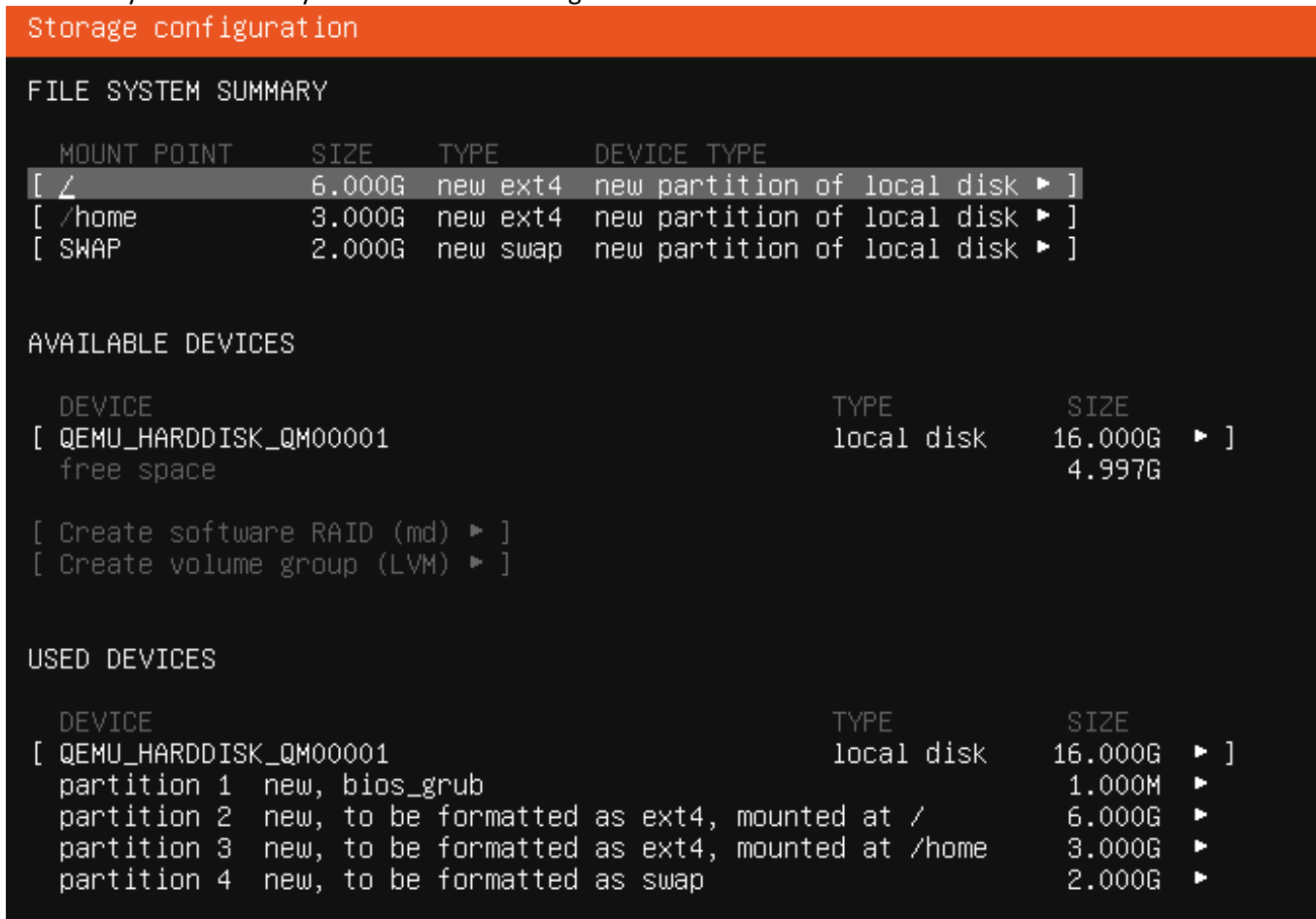
Add another GPT partition, this time 3G with /home for the mount point:



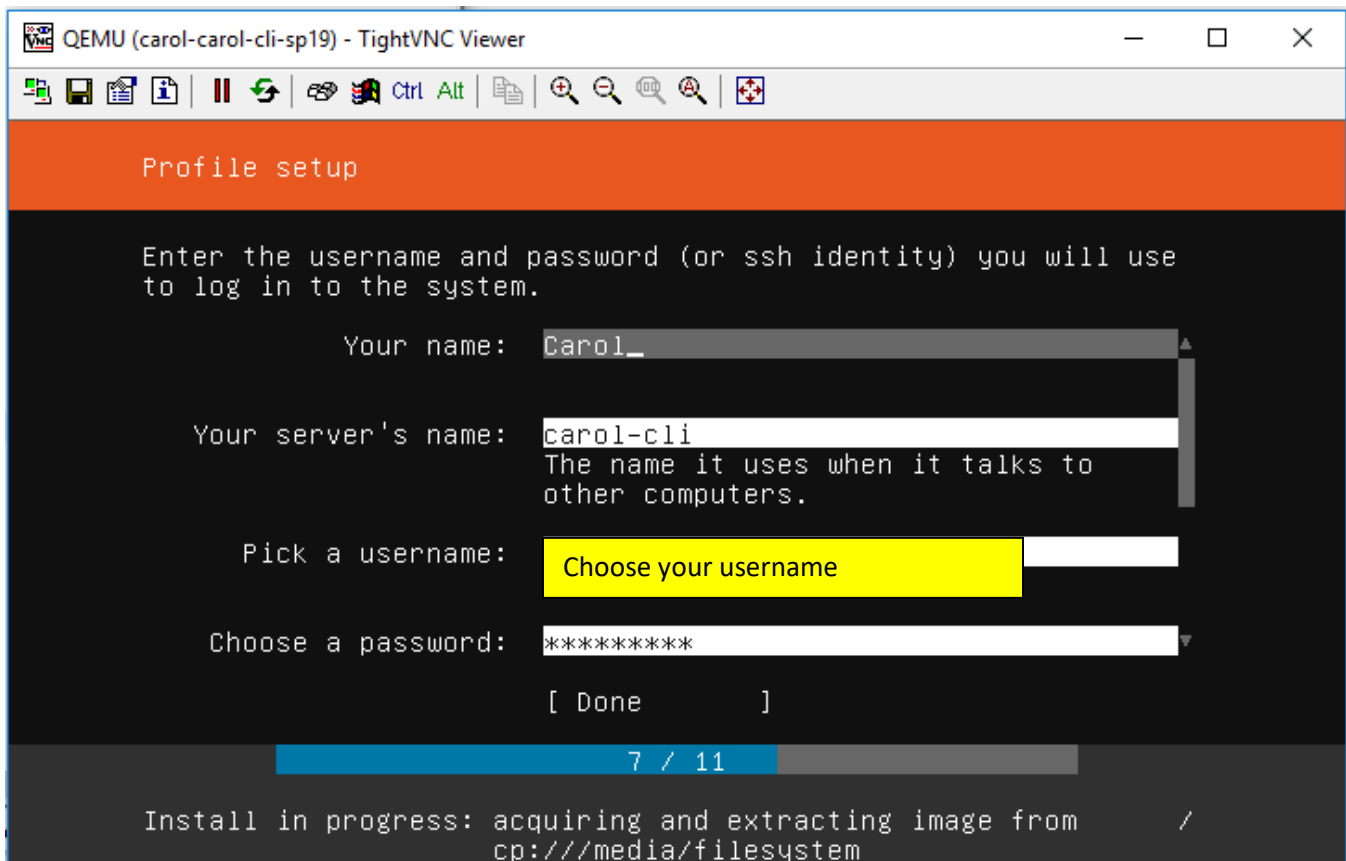
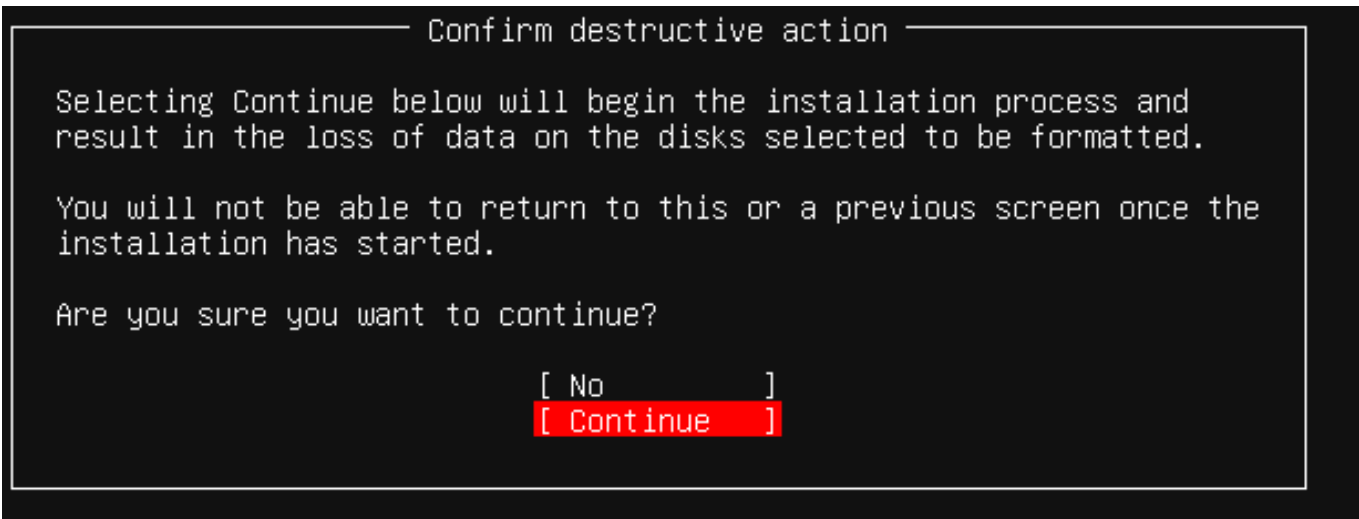
Add another GPT partition. This time a swap, 2G:



Your File System Summary should look something like this:



Select Done. Confirm destructive action.



Install OpenSSH server:

```
SSH Setup [ Help ]
You can choose to install the OpenSSH server package to enable secure remote access to your server.

[X] Install OpenSSH server

Import SSH identity: [ No ▼ ]
You can import your SSH keys from Github or Launchpad.

Import Username:

[ ] Allow password authentication over SSH
```

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

```
Upgrade to Ubuntu Pro [ Help ]
Upgrade this machine to Ubuntu Pro for security updates on a much wider range of packages, until 2032. Assists with FedRAMP, FIPS, STIG, HIPAA and other compliance or hardening requirements.

[ About Ubuntu Pro ► ]

( ) Enable Ubuntu Pro
(X) Skip for now

You can always enable Ubuntu Pro later via the 'pro attach' command.
```

Don't choose any of the snaps.

```
QEMU (carol-carol-cli-sp19) - TightVNC Viewer
Installation complete!

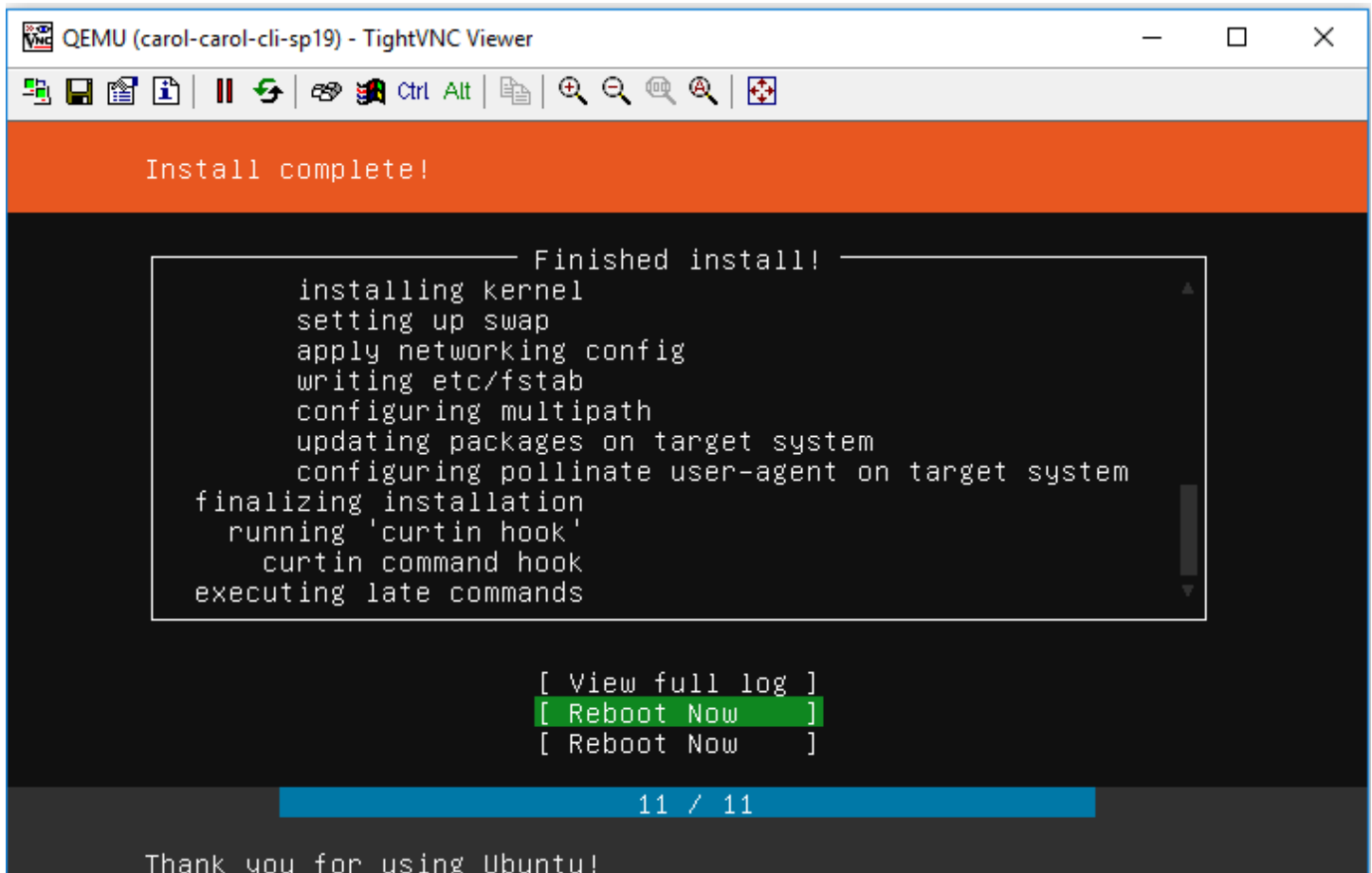
These are popular snaps in server environments. Select or
deselect with SPACE, press ENTER to see more details of the
package, publisher and versions available.

sabnzbd          SABnzbd
wormhole         get things from one computer to another
aws-cli         Universal Command Line Interface for Am
google-cloud-sdk Command-line interface for Google Cloud
slcli          Python based SoftLayer API Tool.
doctl         DigitalOcean command line tool
conjure-up    Package runtime for conjure-up spells
minidlna-escoand server software with the aim of being f
postgresql10  PostgreSQL is a powerful, open source o
heroku        CLI client for Heroku
keepalived    High availability VRRP and load-balanci

[ Done ]

10 / 11

Install complete
```



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>