Step 1: Download Debian [here](here)

Step 2: Download VirtualBox [here](here)

Step 3: Setup VirtualBox
- Install downloaded VirtualBox
- Create a new virtual machine
- Name = Debian, Type = Linux, Version = Debian (64-bit)
- Select 2gb of ram
- Create a virtual hard disk
- Select VDI (VirtualBox Disk Image)
- Select Fixed Size
- Set limit to 32gb

Step 4: Setup Debian
- Global tools (dropdown - Host Network Manager)
- Click 'Create' if list is empty
- Go back to Machine Tools and select Settings then Network
- Attached to = Bridge Adaptor (Adapter 1)
- Attached to = Host Only Adapter (Adapter 2)
- Click ok and then start the VM
- Select image = Debian image you downloaded
- Normal install (default settings)
- Make sure to add a Root password, username and user password when prompted
- Use default settings

Step 5: Additional Setup
- Turn off Desktop Environment & Printing
- Turn on SSH Server & Web Server
- Select the dev/sda option for the Boot Loader

Step 6: Configure SSH
- https://askubuntu.com/questions/353911/hitting-arrow-keys-adds-characters-in-vi-editor
- *ip a (to get name of interface, probably enp0s8)*
- *vi /etc/network/interfaces (configure host-only connection on vm)*
- *Copy settings for enp0s3, replace enp0s3 in the copy with enp0s8*
- *Restart VM*
- *ssh-keygen on host (laptop) if not setup*
- *ssh in as chas@192.168.56.whatever it decided to assign (check ip a again on vm)*
- *In vm as chas: mkdir ~/.ssh*
- On host: scp ~/.ssh/id_rsa.pub chas@seeabove:.ssh/authorized_keys
- If you have an ssh key from earlier, move it (id_rsa and id_rsa.pub) into same .ssh folder on vm
- Else, ssh-keygen on vm OR copy the host keys (id_rsa and id_rsa.pub) to vm

- Configure SSH (wiki)
  - vi /etc/ssh/sshd_config
  - Port 222
  - PermitRootLogin prohibit-password (use without-password on older systems)
  - PubkeyAuthentication yes
  - PasswordAuthentication no
  - service ssh restart
- You can now ssh in via ssh -p 222 user@ip
- If you don't want to do that, you can also add an entry to .ssh/config on the host machine

*Host debian*
 *HostName 192.168.56.3*
 *Port 222*
 *User chas*
- Configure ACL as Root (Wiki)