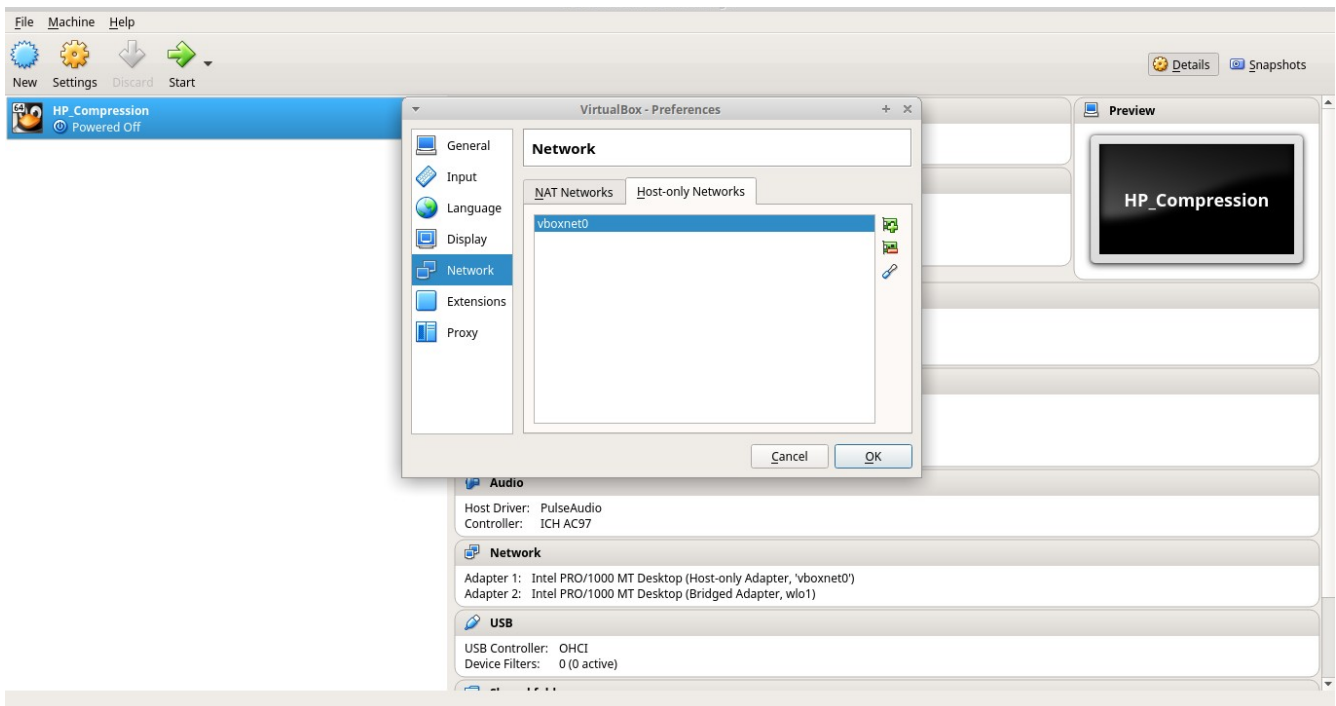


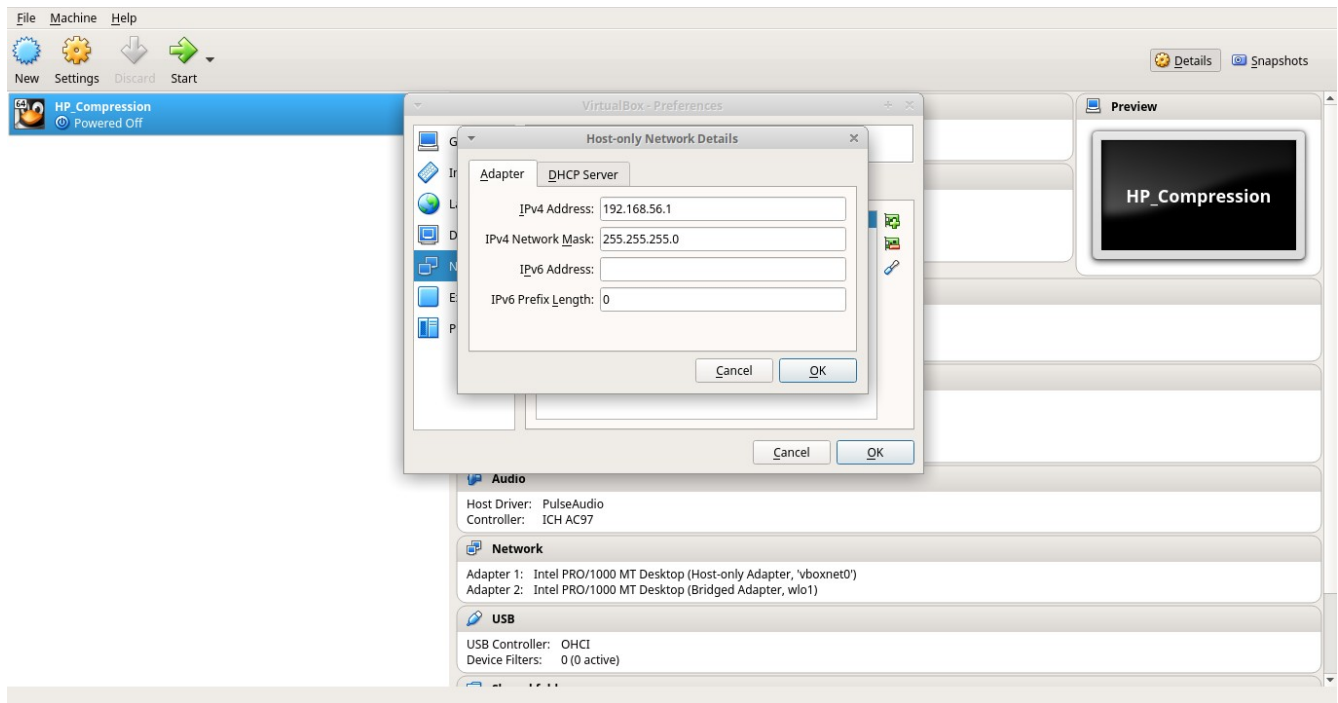
# Static IP address Guide

1. Inside of VirtualBox go to File → Preferences → Network → Host-Only Networks

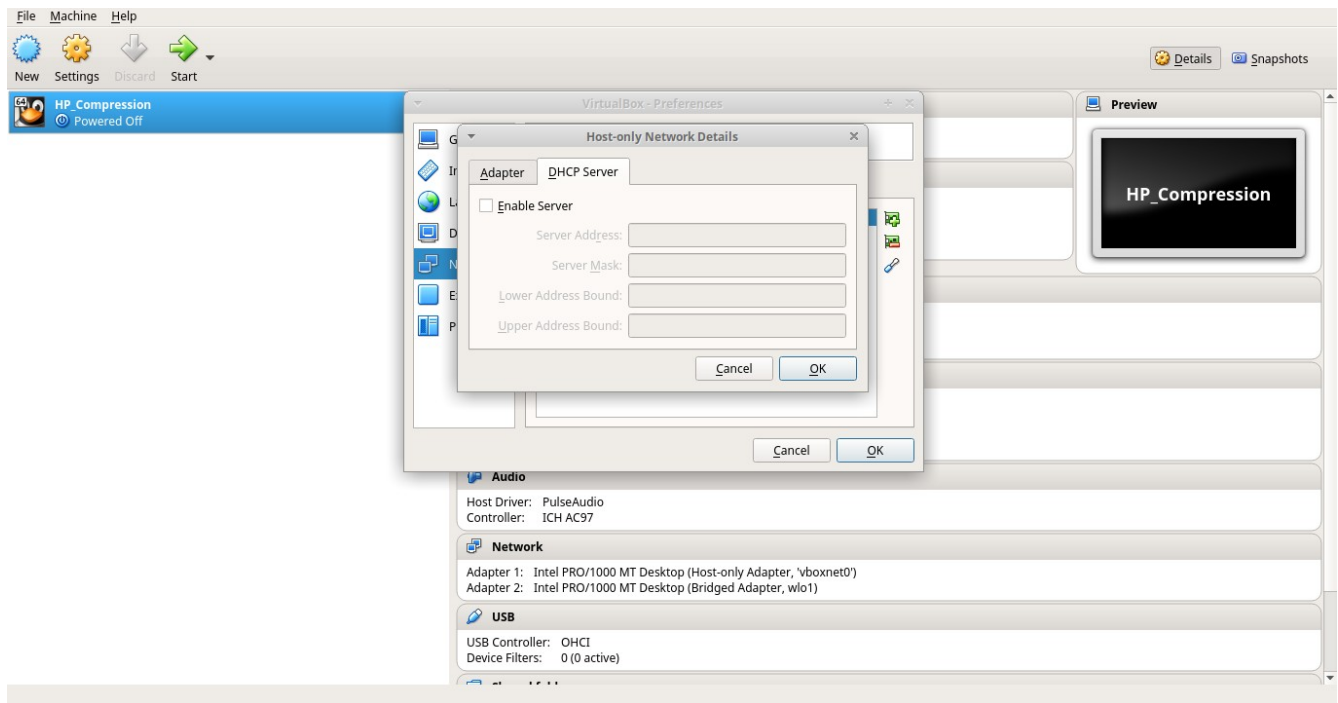


\*Normally there should be nothing listed inside of Host-Only Networks. vboxnet0 is a network adapter that was created later on in the guide

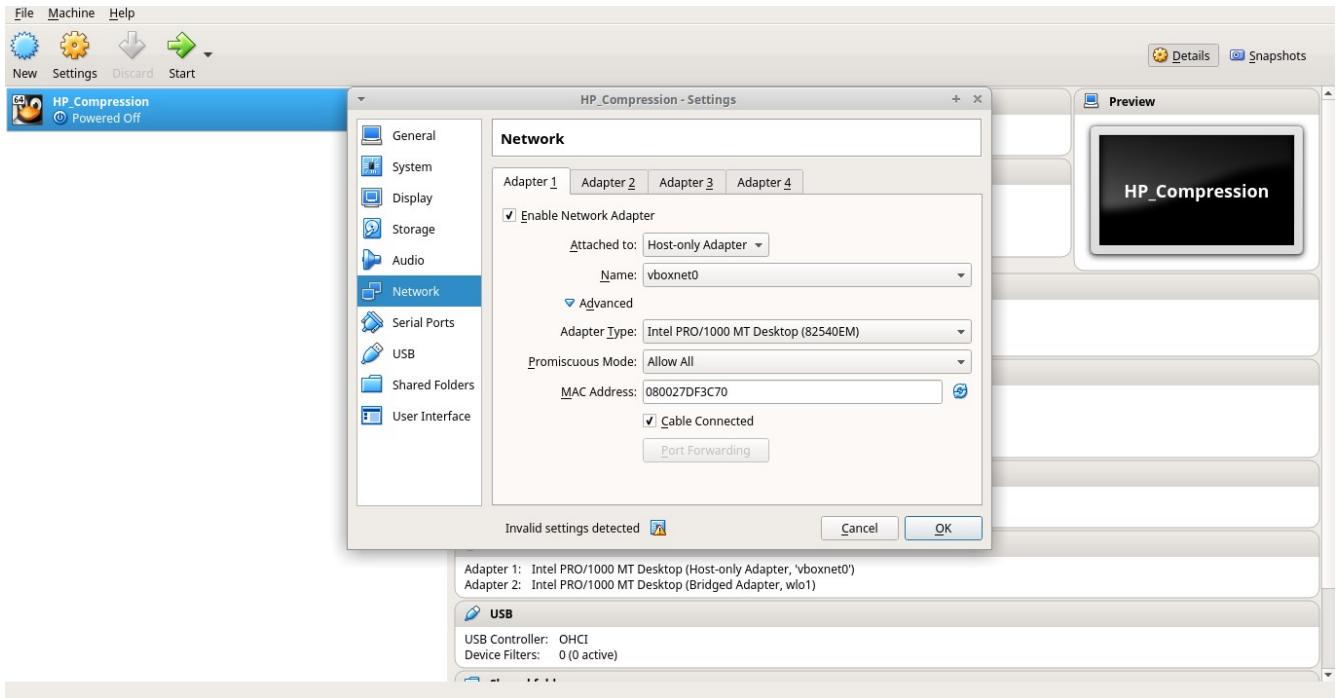
2. Now we want to create a new host-only network. If there is one already there then just move to the next step.
3. Take that network that you just created and edit it. You can use the values in picture below or use your own custom settings. Note, the IPv4 address generated by VirtualBox or used in this guide do matter. Typically you give it a unique IP address that will not interfere with your computer's network configuration. The 192.168.56 subnet is a good value that will most likely leave that alone.



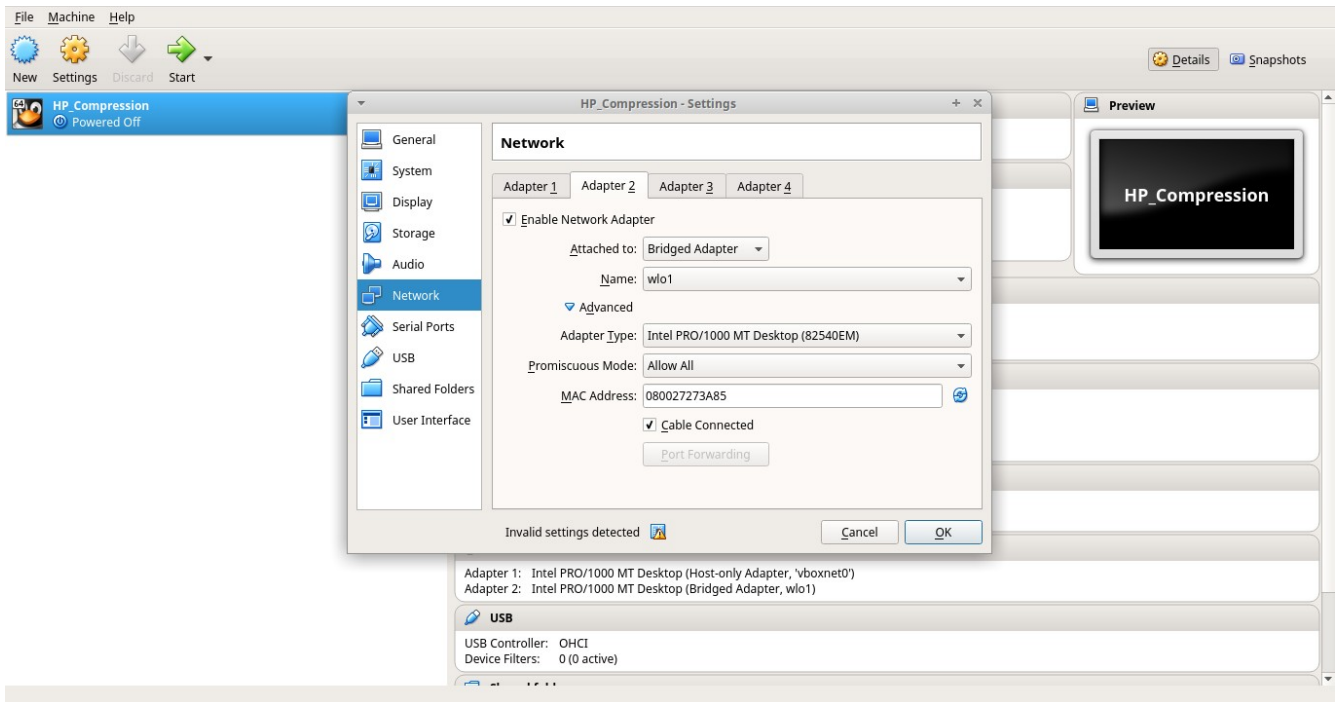
- Now go over to the DHCP Server settings and disable DHCP by clicking on the 'Enable Server' check-box. You generally give your servers static IP addresses so this guide will from here on out will assume it is disabled.



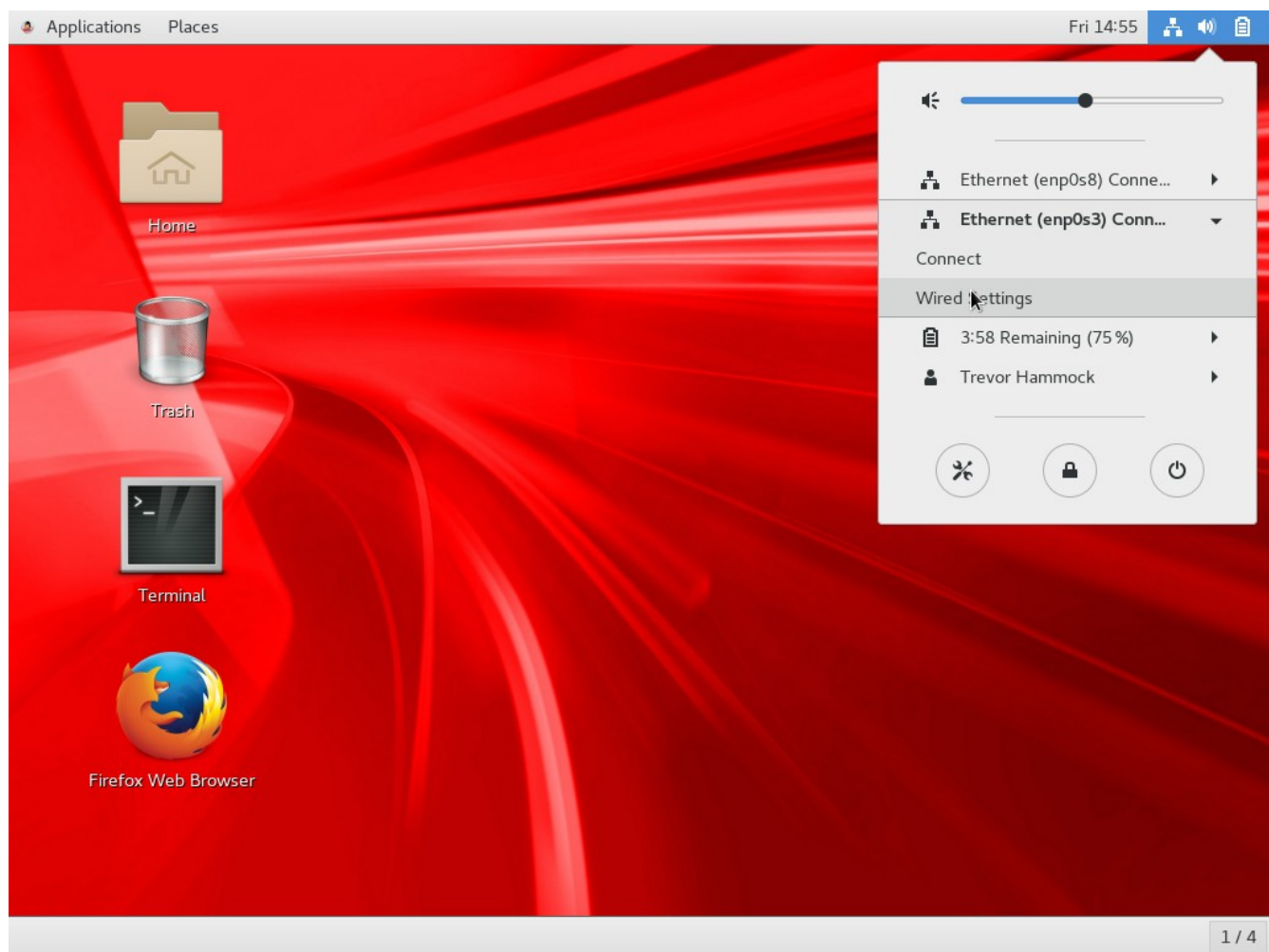
- Once that is done go to your virtual machines settings → Network → Adapter1. Make sure the adapter is enabled and change 'Attached to' to 'Host-only Adapter'. Next change name to the host-only network adapter that we created previously in the guide. Make sure 'Promiscuous Mode' is set to 'Allow All' if you want your host machine and your virtual machine to communicate with each other.



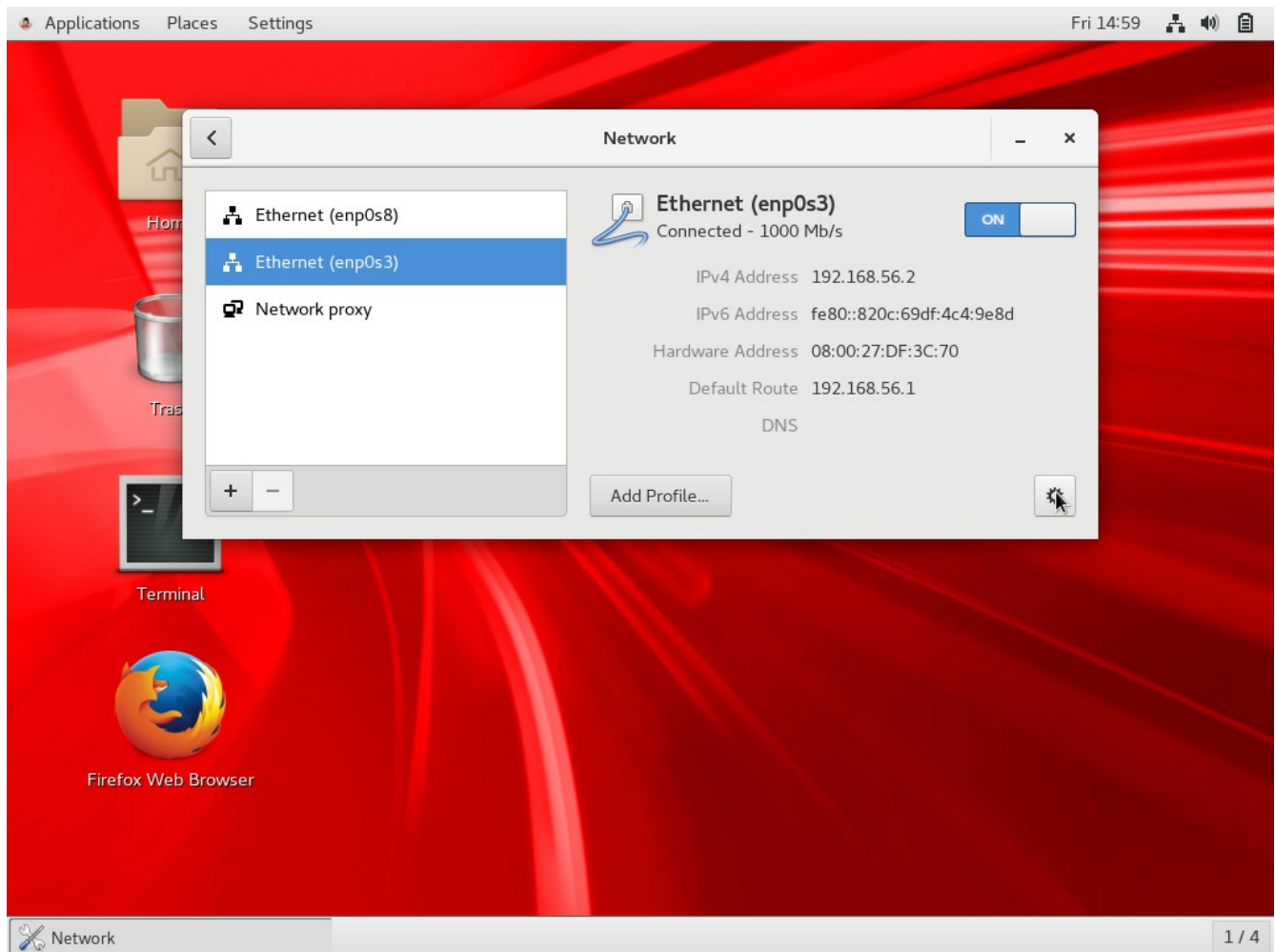
6. **\*\*Optional, is not required:** but the host-only network adapter you created makes a virtual network on your host machine. This helps assign permanent static IP addresses to your virtual machine on top of making it very easy for the two to communicate between each other. However the Internet connection on your host machine is not passed through the host-only adapter. To get Internet access to your virtual machine you will need to create a separate NAT or bridged adapter in the network settings to do this. In the virtual machine it will show up as another network adapter (probably Ethernet) that you can connect to so you can get Internet access on the virtual machine.



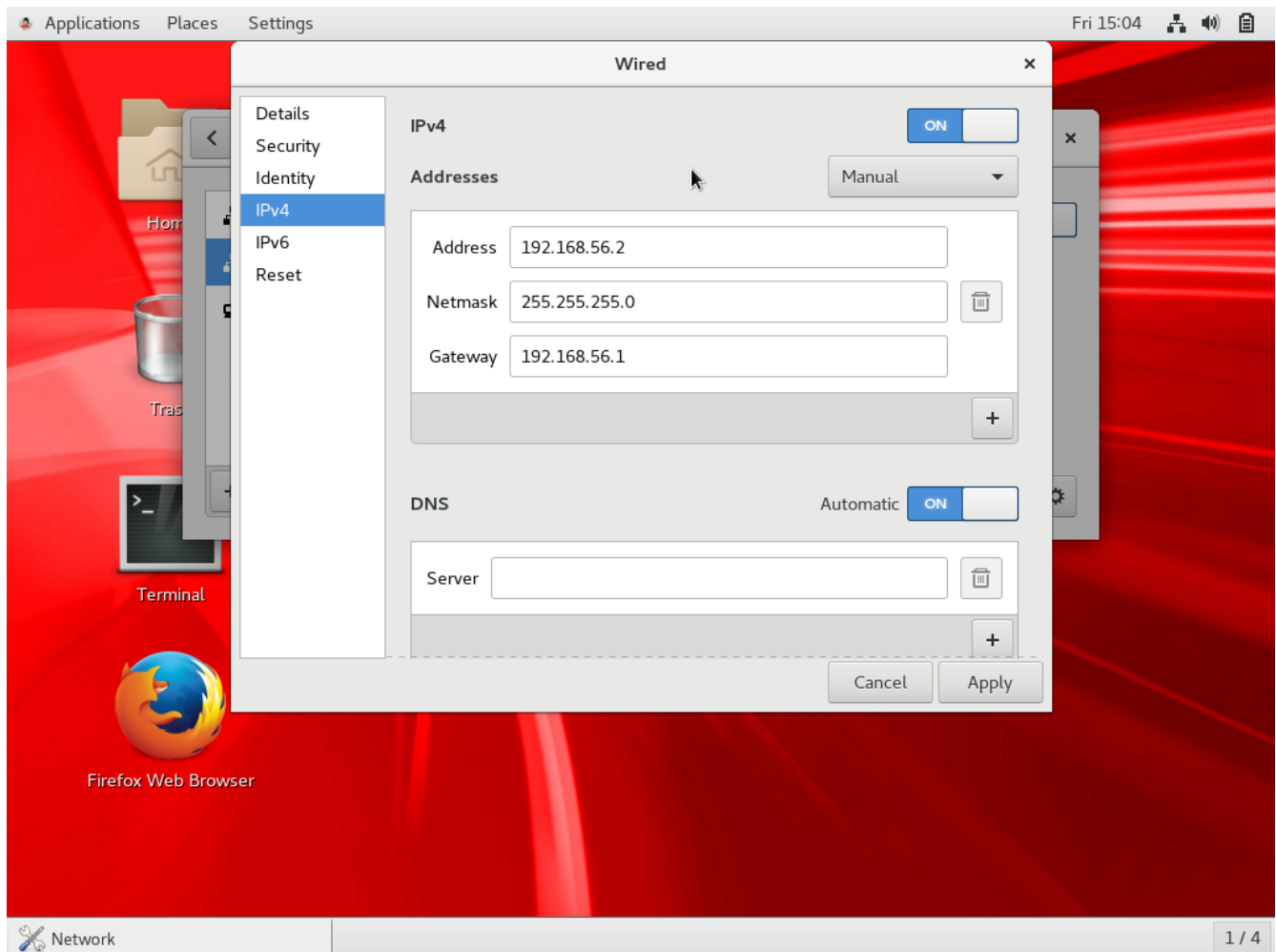
- Now start up your virtual machine and open up your network manager. The host-only adapter will show up as enp0s3.



8. Now click on wired settings click on the change settings button.

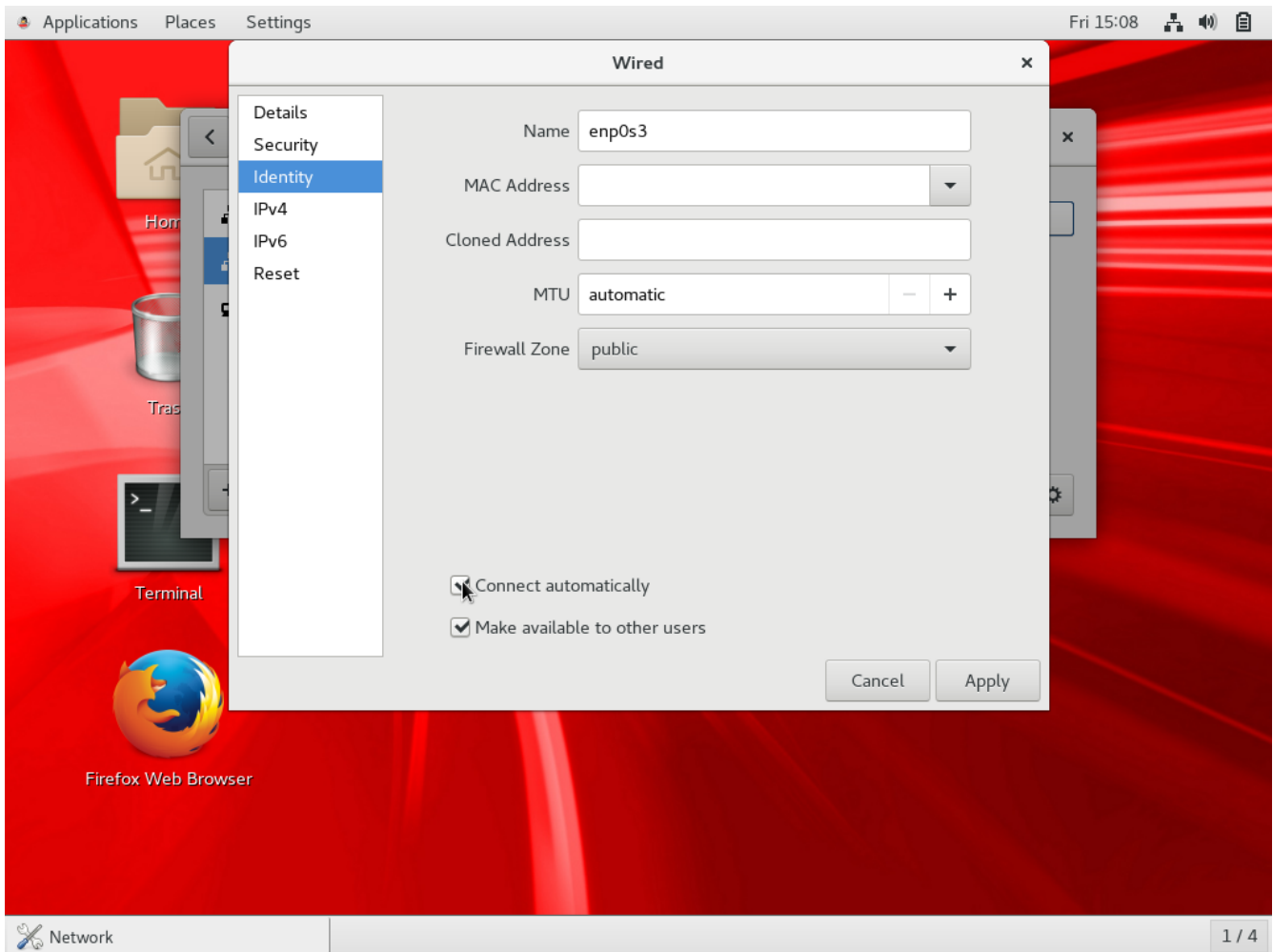


9. Go into the IPv4 settings and change 'Addresses' to 'Manual'. Here we will assign the virtual machine a static IP address. As long as it is on the same subnet as your host-adapter, the address does not matter. However you cannot use the IP address that you gave your host-adapter and you must use that host-adapter address as the gateway.





10. \*\*Optional, is not required: if you don't want to manually connect the connection every time you start the virtual machine, you can go to 'Identity' in the network manager. From there you can enable 'Connect automatically' so it automatically connects to this connection at startup.



11. **\*\*Warning:** if you setup a second adapter to connect to the Internet, if both the host-only adapter and the Internet granting adapter are connected at the same time you cannot access the Internet. This has to do with multiple gateway issues but your virtual machine cannot determine with connection goes to the Internet. You can access the Internet by disabling the host-adapter connection or you can bridge the two connections on your virtual machine. This guide will be updated later with instructions on how to bridge on the connections.