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**Title: Setup Static IP addresses**

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**OS: CentOS 7**

**Setup:**

To start you will need to machines that are connected to one another either through a switch or on the same network. Now this can be applied to as many machines as you want but we will just focus on two for now. My first machine will be called Clone1 and the second will be Clone2 and they both will be virtual machines on VirtualBox. If you don’t know how to setup a virtual machine then look for my document on how to setup a virtual machine for your specific needs.

**Part 1:**

Make sure that when you are in that all your networks are on and running and that you have an Internet connection.

* Type: sudo yum install NetworkManager-tui
* Type: nmcli d
  + If all your network devices are on then they will be labled in red, else they will be labled in green.
  + If they are not all on and you want them to stay on then do the following.
  + Type: nmtui
    - Hit enter for edit a connection.
    - Select a network device, and then move over to edit using the arrow keys.
    - At the bottom, move over to “Automatically Connect”, and hit the space button. An x should show up in the brackets.
    - Exit.
* Type: sudo service network restart
  + You should have all the devices on now, and they should stay on with reboots.

**Part 2:**

I will give clone1 192.168.20.201, and give clone2 192.168.20.202. Don’t make the last number bigger than 299, or you will get errors trying to restart the device.

* Type: hostnamectl set-hostname “username”
* Type: sudo nano /etc/sysconfig/network-scripts
  + Put the following into the file.
    - TYPE=Ethernet
    - BOOTPROTO=static
    - DEFROUTE=yes
    - IPV4\_FAILURE\_FATAL=no
    - IPV6INIT=yes
    - IPV6\_AUTOCONF=yes
    - IPV6\_DEFROUTE=yes
    - IPV6\_FAILURE\_FATAL=no
    - IPV6\_ADDR\_GEN\_MODE=stable-privacy
    - NAME=enp0s8
    - UUID=f328ad46-ecf6-438e-9409-ca6bd45945fe
    - DEVICE=enp0s8
    - ONBOOT=yes
    - IPADDR=192.168.20.201
    - NETMASK=255.255.255.0
* Type: sudo service network restart

**Other:**

You should now be able to ping either machine. If not, then use Google. I will have another document that will go over other related networking topics.