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**Title: Setup Static IP addresses**

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**OS: Ubuntu 16.10**

**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:**

* Type: su
  + If you don’t have root privileges then this will not work, but if this is your machine then go ahead and do the following command.
  + Type: sudo passwd
  + You will have to enter the password for your user and then one for root.
* Type: ifconfig
  + Here you will see the network devices for your system. They will range from etho# to enp0s#, and beyond. I’m using a virtual machine so mine is enp0s8.
* Type: nano /etc/network/interfaces
  + You will see the auto lo device in the file, you will enter the following underneath the last line. Since I am using a virtual machine I will be using the enp0s8 network device. Do not try giving a 280 plus number, your network will crash and you will have to change the number again.
  + auto enp0s8
  + iface enp0s8 inet static
    - address 192.168.100.100 – (This is an example)
    - netmask 255.255.255.0 – (This is an example)
* Type: service networking restart

Clone1 will have the IP address of 192.168.100.100, and for Clone2 can have 192.168.100.101.

**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.