**ITP 325 - Homework 02a**

**Question:**

1. What command would I use to test if Kali has access to the Internet? Write out the command that you would type into the terminal.
   1. Ping 8.8.8.8
2. If trying to test the Internet connection failed, what are some things you will check to make sure they are configured correctly? Write out the command that you would type into the terminal.
   1. I would check if the IP address, DHCP, Ethernet settings, and the like. Ifconfig eth0 should tell me a decent amount
3. If you’re using a virtual machine and without looking at the VM configuration, how can you tell what type of network setup you have for the Kali VM? Write out the command that you would type into the terminal, and explain how you would read it to figure the connection type.
   1. Ifconfig eth0 could tell me the IP address and how it is registered on my computer. If the IP address is on the same as the hosts, for example, it is bridged
4. If I wanted Kali Linux to use the OpenDNS servers, what are the different ways I can do this within Kali? Write out the command that you would type into the terminal.
   1. I could alter the file manually or directly by tampering with /etc/resolve.conf
   2. Manual tampering through vim: vim /etc/resolv.conf and inserting 208.67.222.222 (OpenDNS servers)
5. If I’m having problems with DHCP, what is a command that I can command can I use to get networking up in Kali? What is the drawback with your solution? Write out the command that you would type into the terminal.
   1. Auto eth0

Iface eth0 inet dhcp

Drawback is that one must manually enable and disable DHCP