**VSwitches**

**Description**

By the end of this project you should:

- Plug in one more network interfaces to your switch (for each ESXi instance).
- Configure a new vSwitch on ONE of your ESXi instances. Assign the new adapter to the vSwitch (this will be done on the ESXi web interface, not vcsa)
  - Create a port group for vlan 321
  - Assign a vm to this vlan
  - Create a port group for vlan 666
  - Assign a vm to this vlan (ubuntu)
  - Assign a vm to this vlan (windows)

For vlan 321, you can use your same IP space with the exception of the third octet. The third octet for 321 should be 195. So, if my IP allocation was 144.38.194.0-19 on the original equipment sheet. I could use the IPs 195.0-19 for vlan 321.

For the machine in vlan 666, this only supports ipv6 traffic. You should configure your vm with an ip address like so:

In `/etc/network/interfaces` (if using a ubuntu machine):

```plaintext
auto ens192
defaulthosts ens192 inet6 static
    netmask 64
    gateway 2001:1948:e10:000::1
dns-nameservers 2001:4860:4860::8888 2001:4860:4860::8844
```

Mine was `ens192` above. It should be the same as whatever your current interface is for ipv4. For your address, the last numbers in mine are 0001. You should change your last numbers to be a number in your assigned range. (i.e. If I was assigned the range 20-39 in our original addressing allotment, I would change the above 0001 to maybe 0021. All the other numbers should remain the same. Bring up the interface, make sure it works by using a ping test like `ping6 2001:4860:4860::8844`. FYI, the nameservers above are googles ipv6 nameservers.

For windows ipv6, you should be able to figure it out ;-) 

**To Pass off**

Prove that you have done it. We will pass this off in class.