## 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 322
  - 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 second octet for 321 should be 160. So, if my IP allocation was 10.150.5.0-255 on the original equipment sheet. I could use the IPs 10.160.5.0-255 for vlan 321.

For the machine in vlan 322, it supports ipv6 traffic. You should configure your vm with an ip address like so:

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

```bash
auto ens192
iface ens192 inet6 static
  netmask 64
  gateway 2001:1948:e10:2272::1
  dns-nameservers 2001:4860:4860::8888 2001:4860:4860::8844
```

Mine was `ens192` above. You can figure out yours in linux by doing `dmesg | grep eth0` and should be able to see what it was renamed. It should be the same as whatever your current interface is for ipv4. For your address, the last numbers in mine are 0001. You want to choose some other random number (that hopefully no-one is using). 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 google's 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.