Proxmox HA

Goals

Demonstrate HA

High Availability

1. You should already have several templates from a previous assignment.
2. Enable HA on proxmox. Assign a pokemon clone to have HA.
3. Make sure that if a node in your cluster fails, that your vm will restart on another node (this takes around 3 minutes).

Different VLANs

Clone 3 virtual machines from your ubuntu template. You should have the following setup:

- (vm1) Create this vm in the vlan that is checked out to you on [vm.cs.utahtech.edu](http://vm.cs.utahtech.edu) webpage.
- (vm2) Do the same as the previous step but in vlan 321
- (vm3) Do the same as the previous step but in vlan 322

See below for ip allocation.

Your own ISO

You should have created an iso nfs share on Truenas that you connected to. Upload an ISO into the directory. Prove that an installer will start based on that ISO. (No need to finish the install)

Helps

- The nfs iso share is at [144.38.192.167:/vol/student_vm/qemu/iso](http://144.38.192.167:/vol/student_vm/qemu/iso)
- Here are the vlan numberings. You don’t have to do much with ipv6 as your nic should automatically get an ip address. I have listed the default ipv6 gateway that your machine will use.


What should I put for x and y? For x, use the number assigned to you in the ‘Number’ column back on the [equipment](http://equipment) page. For the y value, choose whatever number between 1-255 that you would like. You may notice that we are all sharing the same ip space (we are in the same vlan). You should be able to ping the 10.160/170.0.1 address when done. Remember that they are private addresses so traffic may not be able to go much further than that.

To Pass off

Prove that you have done everything. Demonstrate that each vm can ping the gateway. To ping the ipv6 gateway you do something like `ping6 2001:1948:E10:2270::1`.