HAProxy

Load balancers are essential to keeping services online. Especially services that have high levels of demand. In this lab, you will configure HAProxy to serve as a load balancer in front of two simple web sites.

ToDo

Using your vCenter environment, you'll create a web cluster with a load balancer.

Web Servers

- Create two new Windows Server 2019 VMs (from your template if you have them)
  - Name them Web01 and Web02
  - Assign IPs 10.1.1.21 and 10.1.1.22
  - Join them to Active Directory
  - Install IIS on each
- Create a Linux machine to install haProxy
  - The latest Ubuntu Server works great
  - You can download your Linux ISO from anywhere, but http://repo.ialab.dsu.edu
  - Assign an IP address of 10.1.1.20
  - Install haProxy on your server
- Configuration
  - Replace the default webpage in IIS with basic text indicating which server is which (I used the text "welcome to web01" and "welcome to web02")
  - Configure haProxy for round robin load balancing of each web server
  - Ensure you can access your web servers by visiting the load balancer's IP
  - Reconfigure your firewall to forward port 80 from your WAN interface to the IP address of your load balancer

Submissions

- **Submit two (or one, in a single window) screenshots showing that each web server is up and running its unique page (ex: browsing to http://web01.domain.lan and http://web02.domain.lan)**
- **Submit a two screenshots showing that you are able to access your web servers by visiting your public IP address. Refresh or use a different browser until you're able to show both pages.**
- **Submit a single screenshot of your haproxy config**
- **Submit a single screenshot showing that your firewall is configured to forward http traffic to your load balancer**