

INFOTC 3850: Computer System Administration
Spring 2019
Laboratory # 5
Web Server

I. Objectives

- 1) Understand how to enable a '*virtual host*' to host web sites.
- 2) Understand how to enable authentication for accessing to a web site.
- 3) Understand how to open DNS and HTTP ports in the CentOS firewall.
- 4) Understand how to add CNAME registers to the DNS configuration.
- 5) Install and configuring a Web Server with Virtual Host.

I. Material Required

One CentOS Linux VM and Microsoft Windows 10 VM.

II. Activity

- 1) Go through the Web Server Module available on Canvas.
- 2) Configure your server0 network by using the 3rd subnet of 192.168.100.0/27, assign the IP 192.168.100.65 and Mask 255.255.255.224 to your NIC connected to the vSwitch VMnet2 or 'Private to my Mac' (for MacOS users).
- 3) Configure your server0 as a Web server using *virtual host* with a static web site, enable password authentication (a user name and a password should be required to display the web site) and modify the 'forward.zone' file to allow DNS requests that includes www in the domain name. In other words, the website should be also displayed by typing by using the www i.e. www.infotc3850.com

III. Review Questions

1. Explain the steps you need to execute to open ports in the CentOS firewall.
2. Take a screenshot of the content of the configuration file created to enable the Virtual Host (we used the `/etc/httpd/sites-available/infotc3850.com.conf` file in our example)
3. In your server0 open a Web browser and input the `infotc3850.com` domain name to display the user authentication pop-up message. Take a screenshot of the web browser.
4. In your Windows Virtual Machine open a Web browser and input the **www.infotc3850.com** domain name to display the user authentication pop-up message, take a screenshot of the web browser. Then enter the correct credentials to display the web site and take a second screenshot.