Laboratory # 4
Domain Name System (DNS) Configuration

I.   Objectives

1) Understand what is a domain name, TLD and DNS zone
2) Understand the DNS tree structure and the resource records
3) Understand how a DNS works.
4) Installing and configuring a DNS.

I.   Material Required

One CentOS Linux VM.

II.   Activity

1) Go through the DNS material posted on Canvas.
2) The CentOS VM needs to have two network interfaces, one connected to NAT and the other connected to VMnet2 or 'Private to my Mac' (for MacOS users).
3) Have your CentOS server0 configured as a DNS server. Use the 3rd subnet of 192.168.100.0/27, assign the IP 192.168.100.65 and Mask 255.255.255.224 to your network adapter connected to the vSwitch VMnet2 or 'Private to my Mac' (for MacOS users).

III.   Review Questions

Take screenshots of the below commands execution, the output should be similar to the example on INFOTC3850_SP_2019_09_DNS_Configuration_part04 video on Canvas.

```
$ nslookup server0.infotc3850.com

$ nslookup 192.168.100.65

$ dig

$ ping server0.infotc3850.com

$ ping infotc3850.com
```

Note. You do not need to have any previous configuration in this system, so if you want to have a fresh CentOS installation, otherwise, you can follow the steps on Canvas to disable the DHCP server.