Lab Report

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Your Performance

Your Score: 3 of 3 (100%)   Pass Status: Pass
Elapsed Time: 6 minutes 7 seconds   Required Score: 100%

Task Summary

Actions you were required to perform:
- ✔ Configure settings for enp2s0
- ✔ Configure settings for enp2s1
- ✔ Configure DNS

Explanation

In this lab, your task is to:

- Configure the IP version 4 TCP/IP settings for the network connections using the settings in the table below.
- Ping the gateway to confirm that the workstation is properly connected to the small network and the internet.

Adapter Name	IP Address	Subnet Mask	Broadcast	Default Gateway	DNS Server Addresses
enp2s0	192.168.0.254	255.255.255.0	192.168.0.255	192.168.0.5	163.128.78.93 163.128.80.93
enp2s1	10.0.255.254	255.255.0.0	10.0.255.255	0.0.0.0	

Complete this lab as follows:

1. At the prompt, type **ip addr show** (or **ifconfig**) and press **Enter** to view the current status of the network adapters.
2. Type **cd /etc/sysconfig/network-scripts/** and press **Enter**.
3. Type **ls** and press **Enter** to view the files in this folder. Take note of ifcfg-enp2s0 and ifcfg-enp2s1 which are the configuration files for the network adapters.
4. Configure the settings for enp2s0 as follows:
   a. Type **nano ifcfg-enp2s0** and press **Enter** to edit the first adapter.
   b. On the IPADDR line, type **192.168.0.254**.
   c. On the NETMASK line, type **255.255.255.0**.
   d. On the BROADCAST line, type **192.168.0.255**.
   e. On the GATEWAY line, type **192.168.0.5**.
   f. Type **Ctrl + O**.
   g. Press **Enter** to save the file.
   h. Type **Ctrl + X** to exit the editor.
   i. Type **ip link set enp2s0 down** (or **ifdown**) and press **Enter** to bring the interface down.
   j. Type **ip link set enp2s0 up** (or **ifup**) and press **Enter** to bring the interface back up with the new configuration.
5. Configure the settings for enp2s1 as follows:
   a. Type **nano ifcfg-enp2s1** and press **Enter** to edit the first adapter.
   b. On the IPADDR line, type **10.0.255.254**.
   c. On the NETMASK line, type **255.255.0.0**.
   d. On the BROADCAST line, type **10.0.255.255**.
   e. On the GATEWAY line, type **0.0.0.0**.
   f. Type **Ctrl + O**.
   g. Press **Enter** to save the file.
   h. Type **Ctrl + X** to exit the editor.
   i. Type **ip link set enp2s1 down** (or **ifdown**) and press **Enter** to bring the interface down.
   j. Type **ip link set enp2s1 up** (or **ifup**) and press **Enter** to bring the interface back up with the new configuration.

6. Configure DNS as follows:
   a. Type **nano /etc/resolv.conf** and press **Enter** to configure the DNS server addresses.
   b. Type **nameserver 163.128.78.93** and press **Enter** to start a new line.
   c. Type **nameserver 163.128.80.93**.
   d. Type **Ctrl** + **O**.
   e. Press **Enter** to save the file.
   f. Type **Ctrl** + **X** to exit the editor.

7. Type **ping -c 4 192.168.0.5** and press **Enter** to confirm the connection to the network.