**Internetworking Lab 4**

* Surprisingly I managed to configure the topology with minor errors.
* All devices seem to be pingable
* Setting up the IP Addresses and the IP routes wasn’t problematic
* Eigrp routing worked and feel like I completely grasped an understanding of the routing scheme
* All of the LAN’s are successfully up
* All of the WAN’s are successfully up
* Did show run and applied commands to the terminals and switches with that method.
* VTP worked but not sure I fully understand how it works
* On the right half of the topology I treated the layer 3 switch as if it were the router for the 2 layer 2 switches below it.
* Pretty easy lab overallS

**Terms**

Ping (Privileged Mode) Sends an echo request to another device (Router & PC)

TraceRoute (Privileged Mode) records the routers that it goes through to get to it’s destination (Router & PC)

Login (Config-line) sets the router so that a password is needed to access the router (Router)

Enable password cisco (Config) enables the use of a password (Router)

Password cisco (Config-line) sets the password for config mode to cisco (Router)

Ip route (Config-if) sets the static route based on the information given (Router)

Router Rip (Config-if) Sets up dynamic routes by giving it the networks that your connected to (Router)

Int f0/0 (Config) allow you to configure the f0/0 port (Router)

Int s0/0/0 (Config) allow you to configure the s0/0/0 port (Router)

Int s0/0/1 (Config) allow you to configure the s0/0/1 port (Router)

Show int (Privileged Mode) Gives a summary of all of the ports on the router (Router)

Show ip int brief (Privileged Mode) gives a brief summary of all of the ports (Router)

Network (Config-router) Sets up dynamic routing (Router)

Conf t (Privileged Mode) get you into config mode (Router)

Lone con 0 (Config) gets you into line config mode (Router)

Enable (Base) gets you into privileged mode (Router)

IP Address (Config-if) sets the Ip address (Router)

No Shutdown (Config-if) boots up the device (Router)

Clock rate (Config-if) sets the clock rate (Router)

Logging synchronous (Config-line) Keep the logs synchronized (Router)

No ip domain lookup (Config) doesn’t search for mistyped addresses or commands (Router)

Host name (Config) sets the host name for the router (Router)

version 2 (Config-Router)

router ospf 4 (Config)

show ip ospf neighbor (Config-Router)

show ip ospf database (Config-Router)

router eigrp 560 (Config)

no auto-summary (Config-Router)

show ip protocol (Privliged Mode)

show ip route (Privliged Mode)

show ip eigrp neighbor (Privliged Mode)

show ip eigrp int (Privliged Mode)