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Lab0 Writeup

1. LAN Cabling:
 - a. PC To Router: Cross Connect
 - b. PC To PC: Cross Connect
 - c. Router To Router: Cross Connect
 - d. Router To Switch: Cross Over
 - e. Switch To Switch: Cross Connect
 - f. Hub To Switch: Cross Over
 - g. PC To Hub: Cross Over
 - h. PC To Switch: Cross Over
2. Done.
3. To get from User-EXEC-mode to Privileged-EXEC-mode use the 'enable' command and to get back use 'disable'. To get from Privileged-EXEC-mode to config mode use 'config terminal' or 'conf t' for short and to get back use 'exit / ctrl + z'
4. 'Enable Password' to set a password for privileged access and enable secret to also set password for privileged access. Enable secret takes precedence over enable password.

```
Router>enable
Password:
Router#
```

5.
 - a. Setup loopback(commserver):
 - i. Interface loopback 0
 - ii. Ip address 172.21.0.1 255.255.255.0
 - iii. Ip host R1 line(2033) 172.21.0.1
 - iv. Line 33 40
 - v. Transport input all

```
COM5 - PuTTY
% Unrecognized command
Router(config-if)#hostname commserver
commserver(config)#ip host ?
WORD Name of host
view Specify view
vrf Specify VRF

commserver(config)#ip host ?
WORD Name of host
view Specify view
vrf Specify VRF

commserver(config)#ip host R1 ?
<0-65535> Default telnet port number
A.B.C.D Host IP address
additional Append addresses
mx Configure a MX record
ns Configure an NS record
srv Configure a SRV record

commserver(config)#ip host R1 2033 ?
A.B.C.D Host IP address
additional Append addresses
mx Configure a MX record
ns Configure an NS record
srv Configure a SRV record

commserver(config)#ip host R1 2033 172.21.2.1 ?
A.B.C.D Host IP address
<cr>

commserver(config)#ip host R1 2033 172.21.2.1
commserver(config)#line ?
<0-70> First Line number
aux Auxiliary line
console Primary terminal line
tty Terminal controller
vty Virtual terminal
x/y Slot/Port for Modems

commserver(config)#line 33 40
commserver(config-line)#
```

- b. Router config (commserver):
 - i. Ip host R1 line(2033) 172.21.0.1
- c. Switch config (commserver):
 - i. Ip host S1 172.21.1.1 255.255.255.0
- d. Telnet:
 - i. Line vty 0 4
 - ii. Password LAB
 - iii. Login
 - iv. Transport input telnet
 - v. exit
- e. SSH:
 - i. Line vty 0 4
 - ii. Login local
 - iii. Transport input ssh telnet
 - iv. Username jose password LAB
 - v. Ip domain name lab
 - vi. Crypto key generate rsa
- 6. Went through the packets sent on WireShark with the protocol TELNET and was able to see the password that was sent! It was really cool.
- 7. Done.
- 8.
 - a. Setup (Commserver):
 - i. Line vty 0 4
 - ii. Password LAB

11. When the 'no ip proxy-arp' command is enabled then the ARP request to a computer in another subnet will get dropped and not forwarded by the router.
12. Just know how to copy and backup IOS
 - a. Show IOS: show flash
 - b. Copy IOS: copy flash
13. Enable password can be recovered, but the enable secret is encrypted so it can't be recovered.
15. Done.

Very Useful Commands:

Enable password --- Sets up a password

sh ip interface brief --- Show Port Status

Sh sessions ---- shows sessions, then you can just type the number to reconnect to that session

Ctrl + shift + 6 +x --- Close connection

conf t --- Enter configure mode

hostname commserver – turns the hostname to router

interface loopback 0 --- Create interface

ip address 172.21.1.1 255.255.255.0 – sets ip address

ip host R1 2033 172.21.1.1 --- Sets ip host

line 33 40 --- Sets lines

transport input all

clear line: clear line 33

ctrl + shift + 6 + 6 – kill a process