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#### SEC 7.1 latro to SVIs

L2 suitches don't perform routing, but still need an IP address for remote connections. That IP address will be configured on the switches remote management interface, which does not physically exist.

To enable this interface, configure vlan 1:

# conf t

(config)# int vlan 1

(config-if)# ip address 10.1.1.2 253.255.255.0

(config-if)# no shut

# exit

(config)# ip default-gateway 10.1.1.1

## SEC 7.2 Creating a non-default SVI

To create an SV( in a different VLAN, there must be a port on that switch with that VLAN which is up and enabled!

### SEC 7.3 Telnet Lab Begins

To telnet to your switch, make sure the sul is configured, and configure a password for vty lines.

[ Sw1 (config) # line uty of sw1 (config-if) # password aiso

Telnet will enter user Exec mode. To enter enable mode, an enable secret/password is required. You will not be able to enter priviledyed exec without a password.

To use a uservame/password db:

((onfig)# line uty 6 4 (config-line)# no password cisco (config-line)# login local

To set a default privilege level:

[ (config - line) # privilege level 15

Telnet sends both data and passwords in clear text.

It is not recommended to use telnet across a WAN.

## SEC 7.5 Auto negotiation

By default Cisco switch ports are set to auto negotiate port speed and duplex with the connected partner.

The highest speed supported by both is used, and full duplex is preferred.

Autonegotiation works so well now it is used by default, but a long time ago it worked very poorly and was not recommended.

Do Not mix auto pregotiation with manually configured devices.

- leads to duplex mismatch very poor connection hard to spot

# SEC 7.6 Slashes, Console Parts, and Descriptions

2545 console port connectors need a rollover cable. Most laptops don't have a DB-9 port so some type of USB adaptor will be needed.

#### (SECT.T) Description (And Interface Range)

If parts are performing aspecific task, or lead to a particularly sensitive host, its a good idea to note that on the part configuith a description.

Interface Runge - change settings on multiple interfaces

Example: Set a range of Ports administratively down and set a Description.

(config) # int range fust 0/12-24 (config-if-range) # description RESERVED - SEE CHRIS
BEFORE OPENING THIS PORT (config-if-range)# short