Cisco CCNA (200-301)

Configuring Secured Remote Access

Learning Objective: Configure a Cisco device for secured remote access.

Description: Accessing router and switches remotely require configuration. You will learn how to configure secured remote access to Cisco devices using SSH.

Q: What do you mean by Remote Access?

Q: When you say Secured Remote Access, is there another way to do remote access that is not secured?

- Yes, telnet

Q: Can you show us how to configure a Cisco router for secured remote access?

- Configure NYEDGE1 hostname and domain-name

```
NYEDGE1#configure terminal
NYEDGE1(config)#hostname NYEDGE1
NYEDGE1(config)#ip domain-name itpro.tv
```

- Configure NYEDGE1 with username/password and enable password

```
NYEDGE1(config)#username lauren privilege-level 15 secret cisco123
NYEDGE1(config)#enable secret cisco123 [may not be needed]
```

- Generate an RSA crypto key with 1024 bit encryption

```
NYEDGE1(config)#crypto key generate rsa
```

- Configure to use SSHv2

```
NYEDGE1(config)#ip ssh version 2
```

- Configure the vty lines for remote access

```
line vty 0 4
login local
transport input ssh
```

- Configure ACL to limit access to local subnet only

```
NYEDGE1(config)#access-list 1 192.168.16.0 0.0.0.255
NYEDGE1(config)#access-class 1
```

Endnotes, External and Etc.

- 4.8 Configure network devices for remote access using SSH