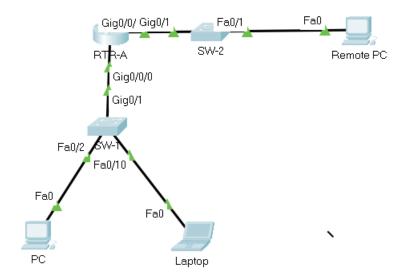
Secure Network Devices



For Router(RTR-A):

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#do sh ip int brief

Interface	IP-Ad	dress	OK? N	lethod Status	F	Protocol
GigabitEthernet	:0/0/0	192.16	8.1.1	YES manual	up	up
GigabitEthernet	:0/0/1	192.16	8.2.1	YES manual	up	up

Vlan1 unassigned YES unset administratively down down

Router(config)#hostname RTR-A

RTR-A(config)#service password-encryption

RTR-A(config)#security

RTR-A(config)#security passwords

RTR-A(config)#security passwords min-length

RTR-A(config)#security passwords min-length 10

RTR-A(config)#line console 0

RTR-A(config-line)#password @Cons1234!

RTR-A(config-line)#exec-timeout 7

RTR-A(config-line)#exit

RTR-A(config)#enable secret @Cons1234!

RTR-A(config)#banner motd \$Authorized Personnel Only!\$

RTR-A(config)#username NETadmin secret LogAdmin!9

RTR-A(config)#line vty 0 15

RTR-A(config-line)#exit

RTR-A(config)#service password-encryption

RTR-A(config)#login block-for 45 ?

attempts Set max number of fail attempts

RTR-A(config)#login block-for 45 attempts 3?

within Watch period for fail attempts

RTR-A(config)#login block-for 45 attempts 3 within 100

RTR-A(config)#no ip domain-lookup

RTR-A(config)#ip domain-name security.com

RTR-A(config)#crypto key generate rsa

How many bits in the modulus [512]: 1024

% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

RTR-A(config)#line vty 0 15

*Mar 1 10:47:16.350: %SSH-5-ENABLED: SSH 1.99 has been enabled

RTR-A(config-line)#transport input ssh

RTR-A(config)#line vty 0 15

RTR-A(config-line)#login local

RTR-A(config-line)#exec-timeout 7

RTR-A(config-line)#

For Switch(SW1):

SW-1(config-if)#sh

SW-1(config-if)#exit

Switch>en Switch#conf t Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname SW1 SW1(config)#ip default-gateway 192.168.1.1 SW1(config)#enable secret @Cons1234! SW1(config)#username NETadmin secret LogAdmin!9 SW1(config)#line vty 0 15 SW1(config-line)#transport input ssh SW1(config-line)#exec-timeout 7 SW1(config-line)#login local SW1(config-line)#exit SW-1(config)#int range f0/1 SW-1(config-if-range)#sh SW-1(config-if-range)#exit SW-1(config)#int range f0/3-9 SW-1(config-if-range)#sh SW-1(config-if-range)#exit SW-1(config)#int range f0/11-24 SW-1(config-if-range)#sh SW-1(config-if-range)#exit SW-1(config)#int g0/2

SW-1(config)#no ip domain-lookup

SW-1(config)#ip domain-name security.com

SW-1(config)#int vlan 1

SW-1(config-if)#ip address 192.168.1.254 255.255.255.0

SW-1(config-if)#no sh

SW-1(config-if)#exit

SW-1(config)#crypto key generate rsa

How many bits in the modulus [512]: 1024

% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

SW-1(config)#do wr m

Building configuration...

[OK]

Packet file: 16.5.1 Secure network devices