Configure and secure passwords and ssh:
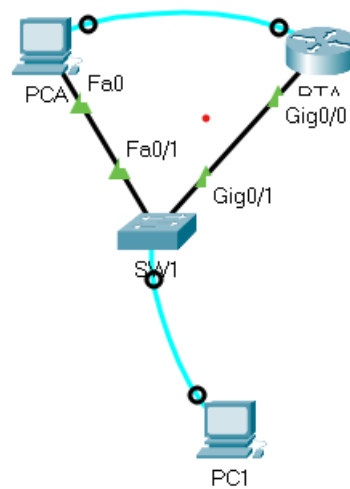

For Router:

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname RTA

RTA(config)#service password-encryption
RTA(config)#security password min-length 10
RTA(config)#no ip domain-lookup
RTA(config)#ip domain-name CCNA.com

RTA(config)#username Diwakar secret 12345
% Password too short - must be at least 10 characters. Password not configured.

RTA(config)#username Diwakar secret 1234567890
RTA(config)#crypto key generate rsa
The name for the keys will be: RTA.CCNA.com
Choose the size of the key modulus in the range of 360 to 2048 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.

How many bits in the modulus [512]: 1024
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]

RTA(config)#login block-for 180 attempts 4 within 120

*Mar 1 10:38:41.387: %SSH-5-ENABLED: SSH 1.99 has been enabled

RTA(config)#line vty 0 4

RTA(config-line)#transport input ssh

RTA(config-line)#login local

RTA(config-line)#exec-timeout 6

RTA(config-line)#exit

RTA(config)#int g0/0

RTA(config-if)#ip address 172.16.1.1 255.255.255.0

RTA(config-if)#no sh

RTA(config-if)#exit

RTA(config)#do wr m

For Switch:

same as router

To set default gateway address:

SW1(config)#ip default-gateway 172.16.1.1

Packet file : 16.4.6 configure and secure passwords and ssh in module 1 chapter 16