Syntax Checker - Configure Basic Router Settings

In this Syntax Activity, you will configure basic settings for R2.

Enter global configuration mode and name the router **R2**.

Router#configure terminal

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

Router(config)#hostname R2

Configure **class** as the secret password.

R1(config)#enable secret class

Configure **cisco** as the console line password and require users to login. Then exit line configuration mode.

R1(config)#line console 0

R1(config-line)#password cisco

R1(config-line)#login

R1(config-line)#exit

Configure **cisco** as the vty password for lines 0 through 4 and require users to login.

R1(config)#line vty 0 4

R1(config-line)#password cisco

R1(config-line)#login

Exit line configuration mode and encrypt all plaintext passwords.

R1(config-line)#exit

R1(config)#service password-encryption

Enter the banner **Authorized Access Only!** and use **#** as the delimiting character.

R1(config)#banner motd #Authorized Access Only!#

Exit global configuration mode and save the configuration.

R1(config)#exit

R1#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

You successfully configured R2 with initial settings.

## Syntax Checker - Configure Router Interfaces

In this Syntax Checker activity, you will configure R2 with its IPv4 and IPv6 interfaces.

Configure GigabitEthernet 0/0/0.

* Use **g0/0/0** to enter interface configuration mode.
* Configure the IPv4 address **10.1.1.1** and subnet mask **255.255.255.0**.
* Configure the IPv6 address **2001:db8:acad:4::1/64**.
* Describe the link as **Link to LAN 3**.
* Activate the interface.

Router(config)#interface g0/0/0

Router(config-if)#ip address 10.1.1.1 255.255.255.0

Router(config-if)#ipv6 address 2001:db8:acad:4::1/64

Router(config-if)#description Link to LAN 3

Router(config-if)#no shutdown

%LINK-3-UPDOWN: Interface GigabitEthernet0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up

Configure GigabitEthernet 0/0/1.

* Use **g0/0/1** to enter interface configuration mode.
* Configure the IPv4 address **10.1.2.1** and subnet mask **255.255.255.0**.
* Configure the IPv6 address **2001:db8:acad:5::1/64**.
* Describe the link as **Link to LAN 4**.
* Activate the interface.

Router(config-if)#interface g0/0/1

Router(config-if)#ip address 10.1.2.1 255.255.255.0

Router(config-if)#ipv6 address 2001:db8:acad:5::1/64

Router(config-if)#description Link to LAN 4

Router(config-if)#no shutdown

%LINK-3-UPDOWN: Interface GigabitEthernet0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up

Configure Serial 0/0/0.

* Use **s0/0/0** to enter interface configuration mode.
* Configure the IPv4 address **209.165.200.226** and subnet mask **255.255.255.252**.
* Configure the IPv6 address **2001:db8:acad:3::226/64**.
* Describe the link as **Link to R1**.
* Activate the interface.

Router(config-if)#interface s0/0/0

Router(config-if)#ip address 209.165.200.226 255.255.255.252

Router(config-if)#ipv6 address 2001:db8:acad:3::226/64

Router(config-if)#description Link to R1

Router(config-if)#no shutdown

%LINK-3-UPDOWN: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

You successfully configured the R2 router interfaces.

Reset