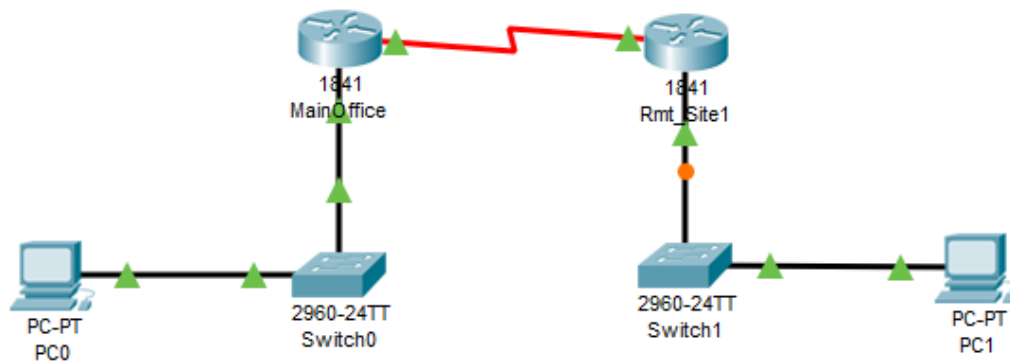


Basic Router Configuration Using CLI



Objective

- Use the CLI to perform basic router configurations.
- Verify configurations and connectivity.

Background / Preparation

A small company has expanded its office into another building. You must configure the routers so that traffic can transverse between the two networks.

Step 1: Configure device hostnames

a.Set the hostname on the **MainOffice** router.

- 1.Select the **MainOffice** router.
- 2.From the **CLI**, enter the following commands:

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname MainOffice
MainOffice(config)# Use the key sequence cntl + z here
%SYS-5-CONFIG_I: Configured from console by console
MainOffice#copy running-config startup-config
```

b.Set the hostname on the **Rmt_Site1** router.

- 1.Select the **Rmt_Site1** router.

2. From the **CLI**, enter the following commands:

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Rmt_Site1
Rmt_Site1(config)# Use the key sequence cntl + z here
%SYS-5-CONFIG_I: Configured from console by console
Rmt_Site1#copy running-config startup-config
```

Step 2: Configure router interfaces

a. Configure the Serial interface on the **MainOffice** router.

1. Select the **MainOffice** router.
2. From the **CLI**, enter the following commands:

```
MainOffice#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
MainOffice(config)#interface serial0/1/0
MainOffice(config-if)#ip address 192.168.1.1 255.255.255.252
MainOffice(config-if)#clock rate 64000
MainOffice(config-if)#no shutdown
MainOffice(config-if)#exit
```

b. Configure the FastEthernet interface on the **MainOffice** router.

1. From the **CLI**, enter the following commands:

```
MainOffice(config)#interface fastethernet0/0
MainOffice(config-if)#ip address 192.168.2.1 255.255.255.0
MainOffice(config-if)#no shutdown
MainOffice(config-if)# Use the key sequence cntl + z here
%SYS-5-CONFIG_I: Configured from console by console
MainOffice#copy running-config startup-config
```

c. Configure the Serial interface on the **Rmt_Site1** router.

1. Select the **Rmt_Site1** router.
2. From the **CLI**, enter the following commands:

```
Rmt_Site1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Rmt_Site1(config)#interface serial0/1/0
Rmt_Site1(config-if)#ip address 192.168.1.2 255.255.255.252
Rmt_Site1(config-if)#no shutdown
Rmt_Site1(config-if)#exit
```

d. Configure the FastEthernet interface on the **Rmt_Site1** router.

1. From the **CLI**, enter the following commands:

```
Rmt_Site1(config)#interface fastethernet0/0
Rmt_Site1(config-if)#ip address 192.168.3.1 255.255.255.0
Rmt_Site1(config-if)#no shutdown
Rmt_Site1(config-if)# Use the key sequence cntl + z here
%SYS-5-CONFIG_I: Configured from console by console
Rmt_Site1#copy running-config startup-config
```

Step 3: Configure the RIP routing protocol

- a. Configure RIP version 2 on the **MainOffice** router.

1. Select the **MainOffice** router.
2. From the **CLI**, enter the following commands:

```
MainOffice#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
MainOffice(config)#router rip
MainOffice(config-router)#version 2
MainOffice(config-router)#network 192.168.1.0
MainOffice(config-router)#network 192.168.2.0
MainOffice(config-router)# Use the key sequence cntl + z here
%SYS-5-CONFIG_I: Configured from console by console
MainOffice#copy running-config startup-config
```

- b. Configure RIP version 2 on the **Rmt_Site1** router.

1. Select the **Rmt_Site1** router.
2. From the **CLI**, enter the following commands:

```
Rmt_Site1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Rmt_Site1(config)#router rip
Rmt_Site1(config-router)#version 2
Rmt_Site1(config-router)#network 192.168.1.0
Rmt_Site1(config-router)#network 192.168.3.0
Rmt_Site1(config-router)# Use the key sequence cntl + z here
%SYS-5-CONFIG_I: Configured from console by console
Rmt_Site1#copy running-config startup-config.
```

Step 4: Configure enable, console and vty passwords

- a. Select the **MainOffice** router.

1. Enter into global configuration.
2. Set the enable secret, line console, and telnet passwords from the **CLI** using the following commands:

```

MainOffice#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
MainOffice(config)#enable secret cisco123
MainOffice(config)#line console 0
MainOffice(config-line)#password class
MainOffice(config-line)#login
MainOffice(config-line)#exit
MainOffice(config)#line vty 0 4
MainOffice(config-line)#password class
MainOffice(config-line)#login
MainOffice(config-line)# Use the key sequence cntl + z here
%SYS-5-CONFIG_I: Configured from console by console
MainOffice#copy running-config startup-config

```

b. Select the **Rmt_Site1** router.

1. Enter into global configuration.
2. Set the enable secret, line console, and telnet passwords from the **CLI** using the following commands:

```

Rmt_Site1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Rmt_Site1(config)#enable secret cisco123
Rmt_Site1(config)#line console 0
Rmt_Site1(config-line)#password class
Rmt_Site1(config-line)#login
Rmt_Site1(config-line)#exit
Rmt_Site1(config)#line vty 0 4
Rmt_Site1(config-line)#password class
Rmt_Site1(config-line)#login
Rmt_Site1(config-line)# Use the key sequence cntl + z here
%SYS-5-CONFIG_I: Configured from console by console
Rmt_Site1#copy running-config startup-config

```