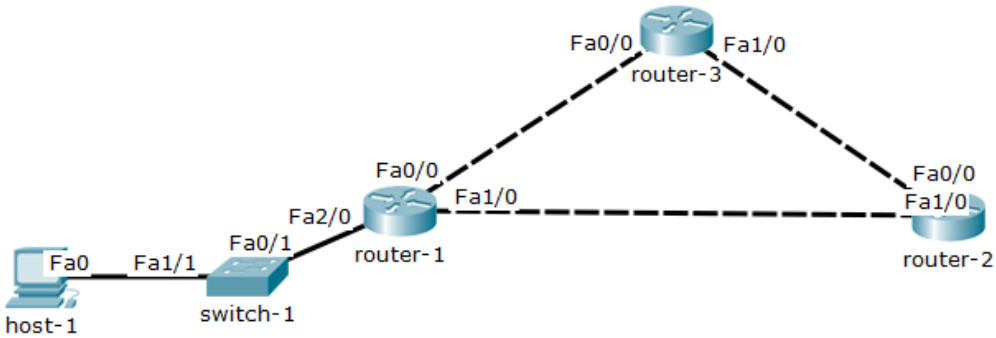
Loopback Interface

Lab Summary

Configure loopback interfaces on router-1, router-2 and router-3 for management purposes.

Figure 1 Lab Topology



Lab Configuration

Start Packet Tracer File: **Loopback Interface**

Router-1

Click on the *router-1* icon and select the *CLI* folder. Hit the <enter> key for user mode prompt (>).

Step 1: Enter global configuration mode.

router-1 > **enable**
router-1# **configure terminal**

Step 2: Configure enable password *cisconet.*

router-1(config)# **enable password cisconet**

Step 3: Configure a management loopback0 interface 192.168.255.1/32

router-1(config)# **interface Loopback 0**
router-1(config-if)# **description management interface**
router-1(config-if)# **ip address 192.168.255.1 255.255.255.255**
router-1(config-if)# **no shutdown**
router-1(config-if)# **exit**

Step 4: Configure VTY lines 0 4 for remote management with password ccnalabs and save the running configuration.

```
router-1(config)# line vty 0 4
router-1(config-line)# password ccnalabs
router-1(config-line)# login
router-1(config-line)# end
router-1# copy running-config startup-config
```

Router-2

Click on *router-3* icon and select the *CLI* folder. Hit <enter> key for user mode prompt (>).

Step 5: Enter global configuration mode

```
router-2 > enable
router-2# configure terminal
```

Step 6: Configure a management loopback0 interface 192.168.255.2/32

```
router-2(config)# interface Loopback 0
router-2(config-if)# description management interface
router-2(config-if)# ip address 192.168.255.2 255.255.255.255
router-2(config-if)# no shutdown
router-2(config-if)# exit
```

Step 7: Configure username cisco with privilege level 15 and password ccnalabs for remote authentication of Telnet session.

```
router-2(config)# username cisco privilege 15 password ccnalabs
```

Step 8: Configure VTY lines 0 4 for remote management with local authentication and save the running configuration.

```
router-2(config)# line vty 0 4
router-2(config-line)# login local
router-2(config-line)# end
router-2# copy running-config startup-config
```

Router-3

Click on *router-3* icon and select the *CLI* folder. Hit <enter> key for user mode prompt (>).

Step 9: Enter global configuration mode

```
router-3 > enable
router-3# configure terminal
```

Step 10: Configure enable password *cisconet*

router-3(config)# **enable password cisconet**

Step 11: Configure a management loopback0 interface 192.168.255.3/32

router-3(config)# **interface Loopback 0**
router-3(config-if)# **description management interface**
router-3(config-if)# **ip address 192.168.255.3 255.255.255.255**
router-3(config-if)# **no shutdown**
router-3(config-if)# **exit**

Step 12: Configure VTY lines 0 4 for remote management with password ccnalabs and save the running configuration.

router-3(config)# **line vty 0 4**
router-3(config-line)# **password ccnalabs**
router-3(config-line)# **login**
router-3(config-line)# **end**
router-3# **copy running-config startup-config**

Step 13: Verify Lab

Start a Telnet session from host-1 to each router loopback interface and verify remote management access.

Router-1

host: c:\> **telnet 192.168.255.1**
Password: **ccnalabs**
router-1> **enable**
Password: **cisconet**
router-1# **exit**

Router-2

host: c:/> **telnet 192.168.255.2**
Username: **cisco**
Password: **ccnalabs**
router-2> **enable**
router-2# **exit**

Router-3

host: c:/> **telnet 192.168.255.3**
Password: **ccnalabs**
router-3> **enable**
Password: **cisconet**
router-3# **exit**

Lab Notes

Telnet to router-2 did not require any typing of enable password for access. There is a local account (**cisco**) on router-2 configured with privilege level 15 that you authenticated previously. The command **login local** is configured on VTY lines to enable authentication based on that local account.