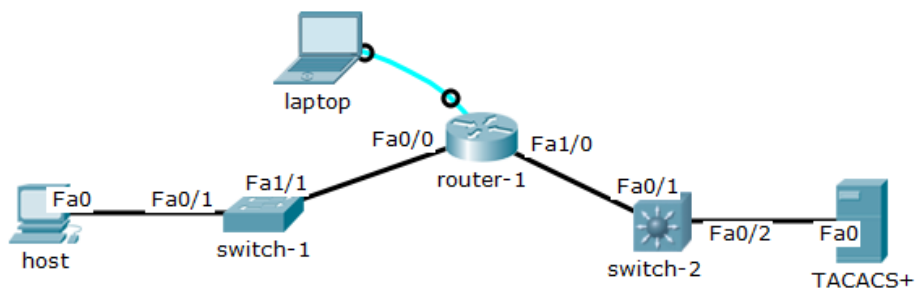# TACACS+

Lab Summary

Configure TACACS+ on router-1 to forward security authentication requests for access to router-1.

Figure 1 Lab Topology

Lab Configuration

Start Packet Tracer File: **TACACS+**

Step 1: Click *router-1* icon and select the *CLI* folder. Press <enter> key for user mode prompt.

Step 2: Enter global configuration mode

> router-1 > **enable**
> Password: **cisconet**
> router-1# **configure terminal**

Step 3: Configure local username *admin* with highest security privilege level 15 and password *ccnalabs.* This backup account is used when TACACS+ server is not available.

> router-1(config)# **username admin privilege 15 password ccnalabs**

Step 4: Enable AAA security model on router-1.

> router-1(config)# **aaa new-model**

Step 5: Configure router-1 to forward access requests to TACACS+ server.

> router-1(config)# **tacacs-server host 192.168.3.1 key cisco**

Step 6: Configure user login configuration where group refers to all servers and local authentication as backup.

> router-1(config)# **aaa authentication login default group tacacs+ local**

Step 7: Enable privileged EXEC mode access and use privilege level of local account for security authorization level.

    router-1(config)# **aaa authorization exec default group tacacs+ local**

Step 8: Enable default VTY 0 4 lines with TACACS+ server authentication.

    router-1(config)# **line vty 0 4**
    router-1(config-line)# **login authentication default**

Step 9: Enable login security to the local console port with TACACS+ server authentication.

    router-1(config-line)# **line console 0**
    router-1(config-line)# **login authentication default**
    router-1(config-line)# **end**
    router-1# **copy running-config startup-config**
    router-1# **exit**

Step 10: <u>Verify Lab</u>

TACACS Server Account

<u>Username: admin</u>   <u>Password: ccnalabs</u>

Start a Telnet session from host-1 to router-1 and verify there is remote access and security authentication.

    c:/> telnet 192.168.1.3
    Username: **admin**
    Password: **ccnalabs**
    router-1> **enable**
    Password: **cisconet**
    router-1# **exit**

    [Connection to 192.168.1.3 closed by foreign host]

Click *Laptop* icon and select the *Desktop* folder. Select *Terminal* icon and verify the terminal settings are correct on the Laptop and click OK.

    Cisco Default Terminal Settings

- 9600 bps
- 8 data bits
- no parity
- 1 stop bit
- no flow control

Login to the local console port of router-1 with the following credentials.

Username: **admin**
Password: **ccnalabs**
router-1> **enable**
Password: **cisconet**
router-1# **exit**