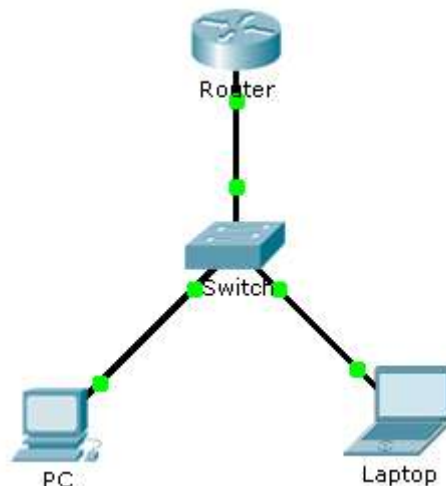


Packet Tracer - Configuring an ACL on VTY Lines

Topology



Addressing Table

| Device | Interface | IP Address | Subnet Mask | Default Gateway |
|--------|-----------|------------|-------------|-----------------|
| Router | F0/0 | 10.0.0.254 | 255.0.0.0 | N/A |
| PC | NIC | 10.0.0.1 | 255.0.0.0 | 10.0.0.254 |
| Laptop | NIC | 10.0.0.2 | 255.0.0.0 | 10.0.0.254 |

Objectives

Part 1: Configure and Apply an ACL to VTY Lines

Part 2: Verify the ACL Implementation

Background

As network administrator, you must have remote access to your router. This access should not be available to other users of the network. Therefore, you will configure and apply an access control list (ACL) that allows **PC** access to the Telnet lines, but denies all other source IP addresses.

Part 1: Configure and Apply an ACL to VTY Lines

Step 1: Verify Telnet access before the ACL is configured.

Both computers should be able to Telnet to the **Router**. The password is **cisco**.

Step 2: Configure a numbered standard ACL.

Configure the following numbered ACL on **Router**.

```
Router(config)# access-list 99 permit host 10.0.0.1
```

Because we do not want to permit access from any other computers, the implicit deny property of the access list satisfies our requirements.

Step 3: Place a named standard ACL on the router.

Access to the **Router** interfaces must be allowed, while Telnet access must be restricted. Therefore, we must place the ACL on Telnet lines 0 through 4. From the configuration prompt of **Router**, enter line configuration mode for lines 0 – 4 and use the **access-class** command to apply the ACL to all the VTY lines:

```
Router(config)# line vty 0 15
Router(config-line)# access-class 99 in
```

Part 2: Verify the ACL Implementation

Step 1: Verify the ACL configuration and application to the VTY lines.

Use the **show access-lists** to verify the ACL configuration. Use the **show run** command to verify the ACL is applied to the VTY lines.

Step 2: Verify that the ACL is working properly.

Both computers should be able to ping the **Router**, but only **PC** should be able to Telnet to it.