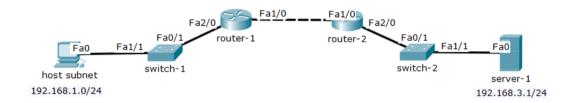
# Standard ACL

### **Lab Summary**

Configure a standard numbered access control list (ACL) to filter traffic based on the following requirements:

- 1. Configure a standard ACL and assign number 99
- 2. Deny all traffic from host subnet 192.168.1.0/24
- 3. Permit all other traffic that does not match ACL
- 4. Apply ACL inbound on router-2 interface Fa1/0 to activate

Figure 1 Lab Topology



## **Lab Configuration**

Start Packet Tracer File: Standard ACL

Verify there is application traffic access permitted from host subnet 192.168.1.0/24 to server-1 and router-2 (telnet).

host: ping 192.168.3.1 (yes)

host: http://192.168.3.1 (yes)

host: c:\> telnet 192.168.2.2

Password: cisco (yes)

router-2# exit

#### Standard ACL

The number range is from 1-99 and 1300-1999. It is comprised of permit or deny statement/s from a source address with a wildcard mask only. The single deny statement requires that you add **permit any** as a last statement for any standard ACL, or all packet are denied from all sources.

Click on the *router-2* icon and select the *CLI* folder. Hit the <enter> key for user mode prompt (>).

Step 1: Enter global configuration mode

router-2> enable
Password: cisconet

router-2# configure terminal

Step 2: Create a standard numbered ACL to deny all traffic from host subnet 192.168.1.0/24.

router-2(config)# access-list 99 deny 192.168.1.0 0.0.0.255 router-2(config)# access-list 99 permit any

Step 3: Apply standard ACL 99 inbound on router-2 interface Fastethernet1/0.

router-2(config)# interface fastethernet1/0
router-2(config-if)# ip access-group 99 in
router-2(config-if)# end
router-2# copy running-config startup-config

### Verify Lab:

Verify there is no traffic permitted from 192.168.1.0/24 host subnet to server-1.

host: c:/> ping 192.168.3.1 (no)

Pinging 192.168.3.1 with 32 bytes of data:

Reply from 192.168.1.3: Destination host unreachable.

Ping statistics for 192.168.3.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

host: http://192.168.3.1 (no)

Verify there is no traffic permitted from 192.168.1.0/24 host subnet to router-2.

host: c:/> ping 192.168.2.2 (no)

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.1.3: Destination host unreachable.

Ping statistics for 192.168.2.2:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

host: c:\> telnet 192.168.2.2 (no)

Trying 192.168.2.2 ...

% Connection timed out; remote host not responding

#### Lab Notes:

There is no traffic or any network connectivity permitted for host subnet 192.168.1.0/24 past router-1. Standard ACL is applied near the destination to prevent excessive filtering since it is less specific than an extended ACL.

#### Standard Named ACL

They are defined with a name instead of number and have the same rules as a standard ACL. The following ACL is named **internet** and will deny all traffic from all hosts connected to 192.168.1.0/24 subnet. It will log any packets that are denied.

ip access-list internet log deny 192.168.1.0 0.0.0.255 permit any