

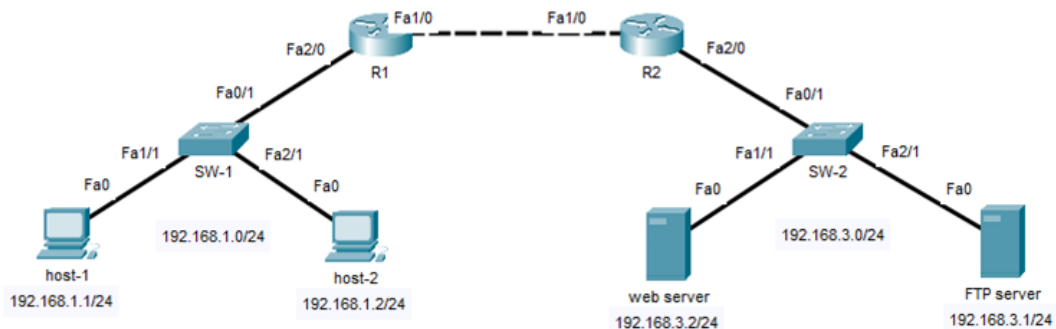
# Extended ACL-1

## Lab Summary

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

1. Configure extended access list number 100
2. Deny all FTP traffic from hosts on subnet 192.168.1.0/24 to the FTP server
3. Deny HTTP traffic only from host-2 to the web server
4. Permit all traffic not matching on any previous ACL statements
5. Apply ACL 100 inbound on R1 interface Fa2/0

**Figure 1** Lab Topology



## Lab Configuration

Start Packet Tracer File: **extended acl-1.pkt**

Verify that host-1 and host-2 are currently permitted to access FTP and web server.

```
host-1: c:\> ftp 192.168.3.1
          username cisco | password cisco (yes)
host-1: http://192.168.3.2 (yes)
host-2: c:\> ftp 192.168.3.1
          username cisco | password cisco (yes)
host-2: http://192.168.3.2 (yes)
```

Click on *R1* icon and select *CLI* folder.

Step 1: Enter global configuration mode

```
R1> enable
R1# configure terminal
```

Step 2: Deny FTP traffic from hosts on subnet 192.168.1.0/24 to the FTP server.

```
R1(config)# access-list 100 deny tcp 192.168.1.0 0.0.0.255 host 192.168.3.1  
eq ftp
```

Step 3: Deny HTTP traffic only from 192.168.1.2/24 (host-2) to the web server.

```
R1(config)# access-list 100 deny tcp host 192.168.1.2 host 192.168.3.2  
eq www
```

Step 4: Permit all traffic that does not match any previous ACL 100 statements.

```
R1(config-ext-acl)# access-list 100 permit ip any any  
R1(config-ext-acl)# exit
```

Step 5: Apply ACL 100 inbound on R1 interface Fa2/0 and save the configuration.

```
R1(config)# interface fastethernet2/0  
R1(config-if)# ip access-group 100 in  
R1(config-if)# end  
R1# copy running-config startup-config
```

Step 6: Verify Lab

Verify ACL 100 configuration is correct and confirm ip access group 100 is applied to router-1 interface FastEthernet2/0. Confirm access to FTP server (192.168.3.2) is denied from host-1 and host-2. In addition, confirm host-1 is permitted and host-2 is denied access to the web server (192.168.3.2).

```
R1# show running-config
```

```
R1# show access-lists
```

```
Extended IP access list 100
```

```
10 deny tcp 192.168.1.0 0.0.0.255 host 192.168.3.1 eq ftp  
20 deny tcp host 192.168.1.2 host 192.168.3.2 eq www  
30 permit ip any any
```

```
host-1: c:\> ftp 192.168.3.1 (no)
```

```
host-1: http://192.168.3.2 (yes)
```

```
host-2: c:\> ftp 192.168.3.1 (no)
```

```
host-2: http://192.168.3.2 (no)
```