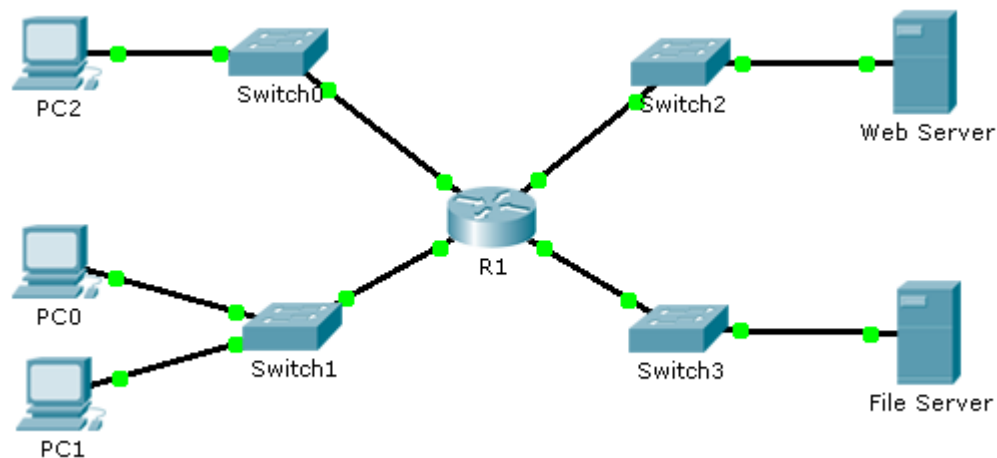


# Packet Tracer - Configuring Named IPv4 Standard ACLs

## Topology



## Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway
R1	F0/0	192.168.10.1	255.255.255.0	N/A
	F0/1	192.168.20.1	255.255.255.0	N/A
	E0/0/0	192.168.100.1	255.255.255.0	N/A
	E0/1/0	192.168.200.1	255.255.255.0	N/A
File Server	NIC	192.168.200.100	255.255.255.0	192.168.200.1
Web Server	NIC	192.168.100.100	255.255.255.0	192.168.100.1
PC0	NIC	192.168.20.3	255.255.255.0	192.168.20.1
PC1	NIC	192.168.20.4	255.255.255.0	192.168.20.1
PC2	NIC	192.168.10.3	255.255.255.0	192.168.10.1

## Objectives

**Part 1: Configure and Apply a Named Standard ACL**

**Part 2: Verify the ACL Implementation**

## Background / Scenario

The senior network administrator has tasked you to create a standard named ACL to prevent access to a file server. All clients from one network and one specific workstation from a different network should be denied access.

## Part 1: Configure and Apply a Named Standard ACL

### Step 1: Verify connectivity before the ACL is configured and applied.

All three workstations should be able to ping both the **Web Server** and **File Server**.

### Step 2: Configure a named standard ACL.

Configure the following named ACL on **R1**.

```
R1(config)# ip access-list standard File_Server_Restrictions
R1(config-std-nacl)# permit host 192.168.20.4
R1(config-std-nacl)# deny any
```

**Note:** For scoring purposes, the ACL name is case-sensitive.

### Step 3: Apply the named ACL.

- a. Apply the ACL outbound on the interface Fast Ethernet 0/1.

```
R1(config-if)# ip access-group File_Server_Restrictions out
```

- b. Save the configuration.

## Part 2: Verify the ACL Implementation

### Step 1: Verify the ACL configuration and application to the interface.

Use the **show access-lists** command to verify the ACL configuration. Use the **show run** or **show ip interface fastethernet 0/1** command to verify that the ACL is applied correctly to the interface.

### Step 2: Verify that the ACL is working properly.

All three workstations should be able to ping the **Web Server**, but only **PC1** should be able to ping the **File Server**.