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SEC 7

LAB EXPERIMENT 10

Step 1:

- Launch Cisco Packet Tracer.
- From the devices list, add the following:
  - 4 PCs (PC0, PC1, PC2, PC3).
  - 2 Switches.
  - 1 Router.
  - 2 Servers.

Step 2:

- Configure IP addresses on each PC:
  - Click on PC0, go to IP Configuration, and set its IP to 192.168.10.10.
  - Do the same for each remaining PC:
    - PC1: 192.168.10.20
    - PC2: 192.168.10.30
    - PC3: 192.168.10.40

Step 3:

- Use automatic cabling to connect devices:
  - Connect each PC, switch, and router using GigabitEthernet0/1 and GigabitEthernet0/2.

Step 4:

- In the router, access the CLI and enter the following commands for initial setup and access control:
  1. Enter privileged mode by typing enable.
  2. Enter global configuration mode: configure terminal.
  3. Assign an IP address:
     - ip address 192.168.10.10 255.255.255.0
  4. Create a standard access list:
     - access-list 10 permit ?
     - access-list 10 deny 192.168.10.20 0.0.0.255
  5. Apply this access list to interface fa0/1:
     - interface fa0/1
     - ip access-group 10 out

Step 5:

- For extended access list setup:
    1. Create an extended access list to deny TCP traffic from 192.168.10.10 to 192.168.10.20 on port 80:
        - access-list 100 deny tcp 192.168.10.10 0.0.0.255 host 192.168.10.20 eq 80
        - access-list 100 permit ip any any
    2. Apply this extended access list to interface fa0/1:
        - interface fa0/1
        - ip access-group 100 out
    3. Exit configuration mode:
        - exit
    4. Verify by displaying access lists:
        - show access-lists

Step 6:

- Go to the command prompt on PC0 and PC1 and test the network:
    - Type ping 192.168.10.20 to check connectivity.

Step 7:

- Save the Packet Tracer file and close the program.