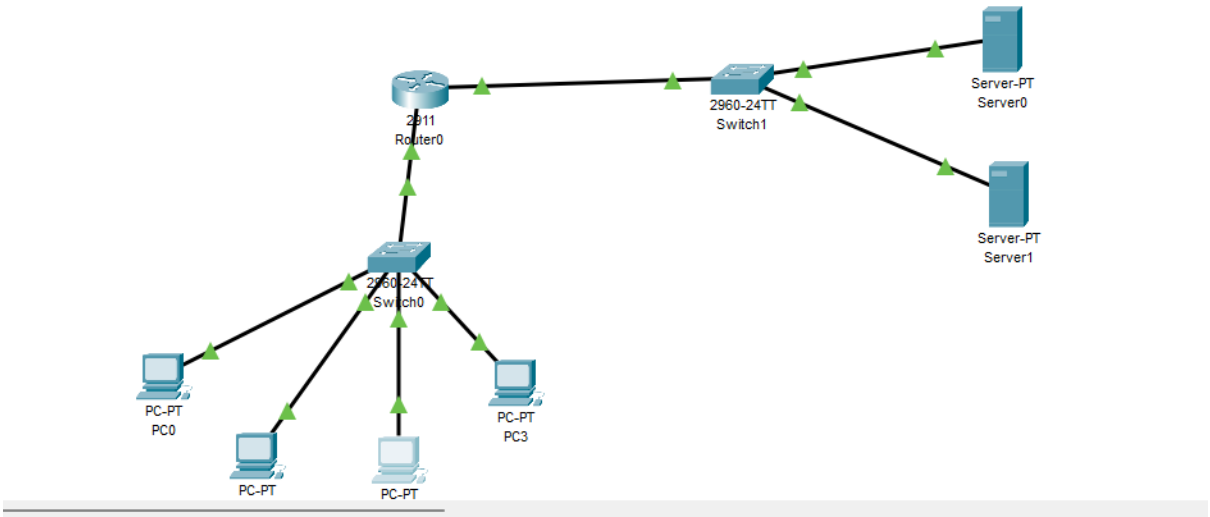
13 . Create an extended ACL to block specific applications, such as HTTP or FTP traffic.Test the ACL rules by attempting to access blocked services.



Configuring the routers :

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
ip address 192.168.10.1 255.255.255.0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
ip address 10.10.10.1 255.0.0.0
Router(config-if)#ip address 10.10.10.1 255.0.0.0
Router(config-if)#ip address 10.10.10.1 255.255.255.0
Router(config-if)#ip address 10.10.10.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#
```

Implementing the Extended ACL where pc2 and pc 3 cannot send traffic to the server 0 :

```
Router(config)#access-list 120 permit ip 192.168.10.10 255.255.255.0 10.10.10.20
255.255.255.0
Router(config)#
Router(config)#access-list 120 permit ip 192.168.10.20 255.255.255.0 10.10.10.20
255.255.255.0
Router(config)#
Router(config)#access-list 120 deny ip any any
Router(config)#
Router(config)#do wr
Building configuration...
[OK]
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip access-list 120 in
                                  ^
% Invalid input detected at '^' marker.

Router(config-if)#
Router(config-if)#ip access-group 120 in
Router(config-if)#
```

Now pinging from pc0 to server 0 and it works because it is permitted :

```
C:\>ping 10.10.10.20

Pinging 10.10.10.20 with 32 bytes of data:

Reply from 10.10.10.20: bytes=32 time=9ms TTL=127
Reply from 10.10.10.20: bytes=32 time<1ms TTL=127
Reply from 10.10.10.20: bytes=32 time<1ms TTL=127
Reply from 10.10.10.20: bytes=32 time<1ms TTL=127

Ping statistics for 10.10.10.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 9ms, Average = 2ms
```

Now pinging from pc2 to server 0 now it cannot send the traffic :

```
C:\>ping 10.10.10.20

Pinging 10.10.10.20 with 32 bytes of data:

Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.

Ping statistics for 10.10.10.20:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```