

21BDS0340

Abhinav Dinesh Srivatsa

Information Security and Audit Lab

#### Task – IV

##### **Question 1**

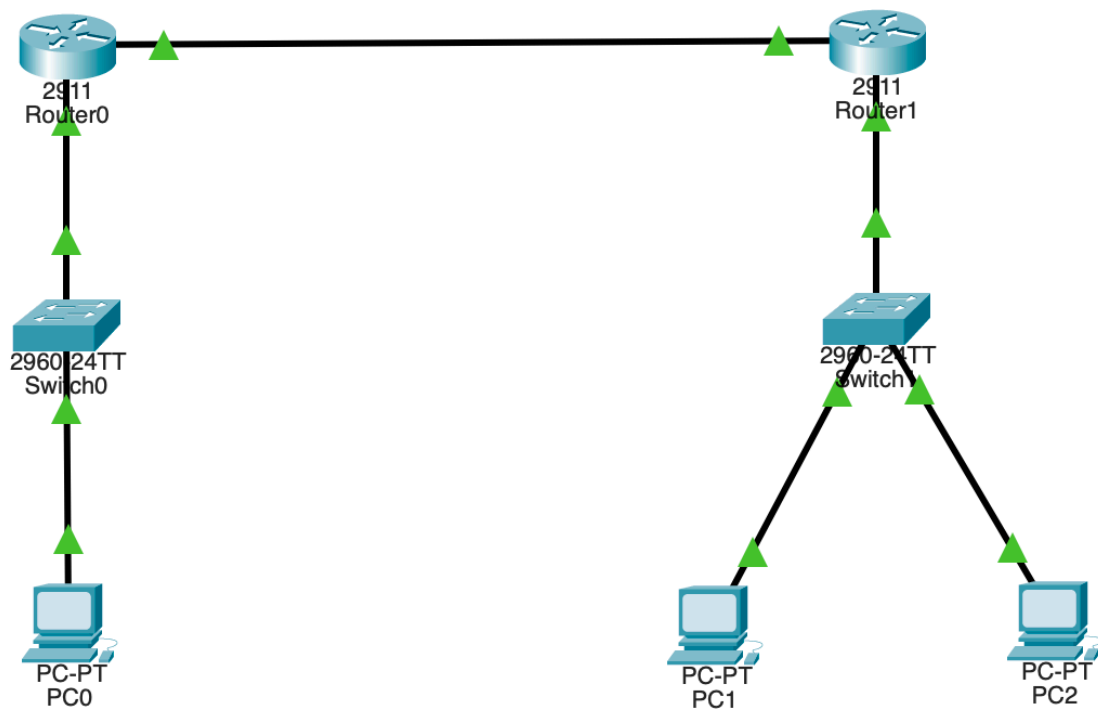
Aim: To configure a router with an access list

Tools and Concepts Required:

- Cisco Packet Tracer
- Switch
- Router
- Personal Computers
- Wiring

Output:

Create configuration:



### 10.0.0.2 inaccessible from 20.0.0.2

```
C:\>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

### 10.0.0.2 accessible from 20.0.0.3

```
C:\>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time<1ms TTL=126
Reply from 10.0.0.2: bytes=32 time<1ms TTL=126
Reply from 10.0.0.2: bytes=32 time<1ms TTL=126
Reply from 10.0.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

### Result:

This network is secure, but all the nodes can only access to the router and any in the network they are assigned to and not to the rest of the internet. The implementation of selective permission for various computers.

## Question 2

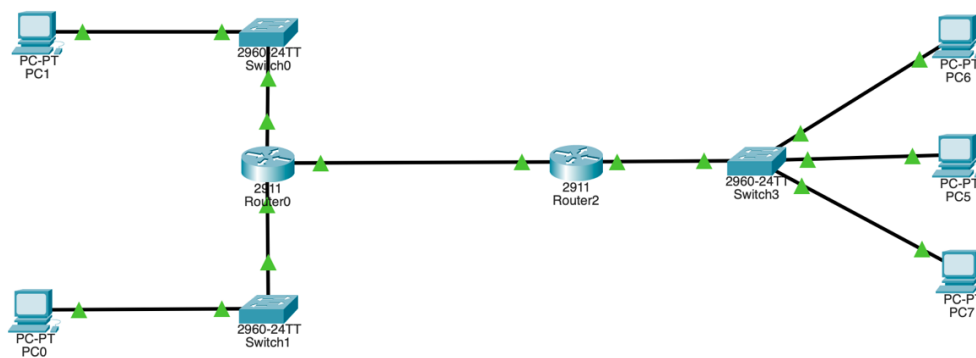
Aim: To configure a router with extended access list

Tools and Concepts Required:

- Cisco Packet Tracer
- Switch
- Router
- Personal Computers
- Wiring

Output:

Create configuration:



20.0.0.2 inaccessible from 30.0.0.2 and 30.0.0.3

```
C:\>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.

Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

20.0.0.2 accessible from 30.0.0.4

```
C:\>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.
Reply from 30.0.0.1: Destination host unreachable.

Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>|
```

### Result:

This network is secure, but all the nodes can only access to the router and any in the network they are assigned to and not to the rest of the internet. The implementation of selective permission for various computers. This setup allows for authorised individuals only to access a server.