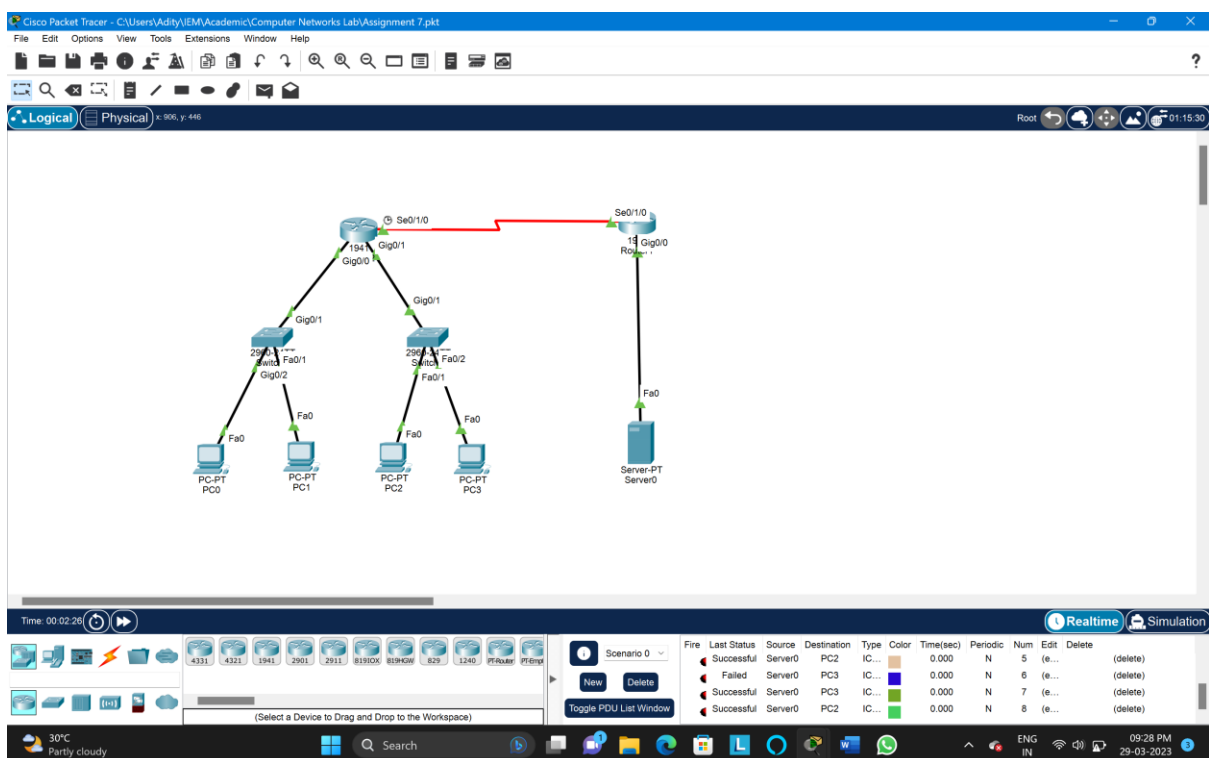# ASSIGNMENT – 6

- ## OBJECTIVE: To build a server network using standard number Access Control List (ACL).

- ## NETWORK LAYOUT:

- ## CODE:
  ### Router 2 (DCE)

> en

config terminal

(config)# interface gi 0/0

```
(config-if)# ip address 192.168.10.1 255.255.255.0

(config-if)# no shutdown

(config-if)# exit

(config)# interface gi 0/1

(config-if)# ip address 192.168.11.1 255.255.255.0

(config-if)# no shutdown

(config-if)# exit

(config)# interface se 0/0/0

(config-if)# ip address 10.0.0.1 255.0.0.0

(config-if)# clock rate 64000

(config-if)# no shutdown

(config-if)# exit

(config)# router eigrp 2

(config-router)# network 192.168.10.0

(config-router)# network 10.0.0.0

(config-router)# exit

(config)# router eigrp 2

(config-router)# network 192.168.11.0

(config-router)# network 10.0.0.0

(config-router)# exit
```

Router 1 (DTE)

```
> en

# config terminal
```

```
(config)# interface gi 0/0

(config-if)# ip address 192.168.12.1 255.255.255.0

(config-if)# no shutdown

(config-if)# exit

(config)# interface se 0/0/0

(config-if)# ip address 10.0.0.2 255.0.0.0

(config-if)# no shutdown

(config-if)# exit

(config)# router eigrp 2

(config-router)# network 192.168.12.0

(config-router)# network 10.0.0.0

(config-router)# exit
```

ACL Router 2 (DCE)

```
(config)# access-list 2 deny 192.168.10.0 0.0.0.255

(config)# access-list 2 permit any

(config)# interface se 0/0/0

(config-if)# ip access-group 2 out
```

- ## IP CONFIGURATION:
  PC-PT PC0
  IPv4 Address: 192.168.10.2
  Subnet Mask: 255.255.255.0
  Default Gateway: 192.168.10.1

PC-PT PC1
IPv4 Address: 192.168.10.3
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.10.1

PC-PT PC2
IPv4 Address: 192.168.11.2
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.11.1

PC-PT PC3
IPv4 Address: 192.168.11.3
Subnet Mask: 255.255.255.0
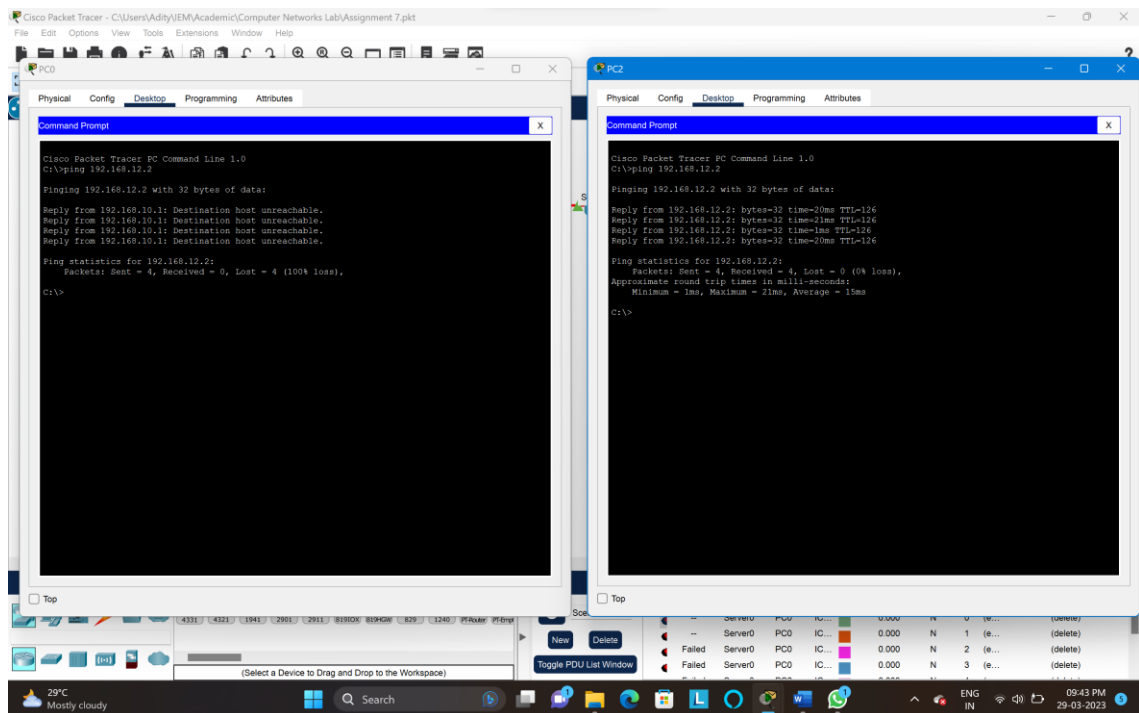**Default Gateway:** 192.168.11.1
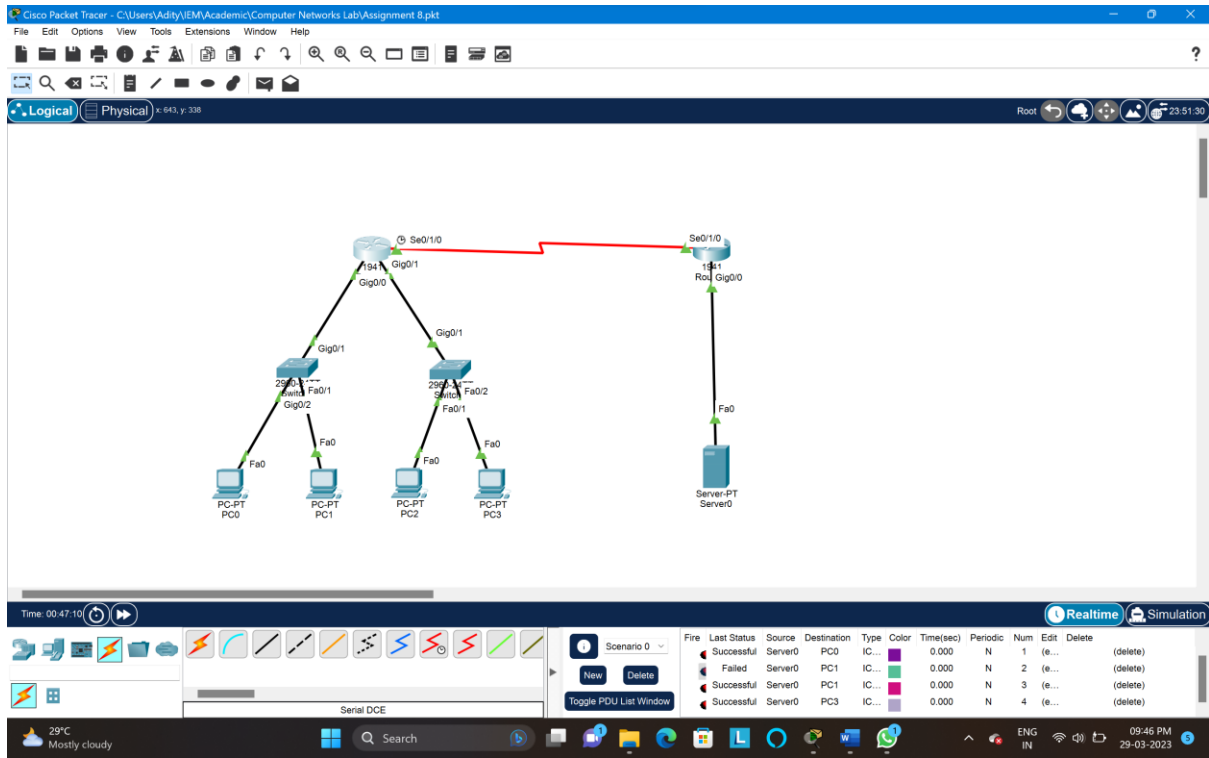
Server-PT Server0
IPv4 Address: 192.168.12.2
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.12.1

• **OUTPUT:**

- ## **OBJECTIVE:** To implement a server network with the extended number Access Control List (ACL).

- ## **NETWORK LAYOUT:**

- ## **CODE:**
  ### **Router 0 (DCE)**
  > en
  # config terminal
  (config)# interface gi 0/0
  (config-if)# ip address 192.168.10.1 255.255.255.0
  (config-if)# no shutdown
  (config-if)# exit

```
(config)# interface gi 0/1
(config-if)# ip address 192.168.11.1 255.255.255.0
(config-if)# no shutdown
(config-if)# exit
(config)# interface se 0/0/0
(config-if)# ip address 10.0.0.1 255.0.0.0
(config-if)# clock rate 64000
(config-if)# no shutdown
(config-if)# exit
(config)# router eigrp 2
(config-router)# network 192.168.10.0
(config-router)# network 10.0.0.0
(config-router)# exit
(config)# router eigrp 2
(config-router)# network 192.168.11.0
(config-router)# network 10.0.0.0
(config-router)# exit
```

Router 2 (DTE)

```
>  en
# config terminal
(config)# interface gi 0/0
(config-if)# ip address 192.168.12.1 255.255.255.0
(config-if)# no shutdown
(config-if)# exit
(config)# interface se 0/0/0
(config-if)# ip address 10.0.0.2 255.0.0.0
(config-if)# no shutdown
(config-if)# exit
(config)# router eigrp 2
(config-router)# network 192.168.12.0
(config-router)# network 10.0.0.0
(config-router)# exit
```

ACL Router 0 (DCE)

(config)# access-list 115 deny tcp 192.168.10.0 0.0.0.255 192.168.12.2 0.0.0.0 eq 80

(config)# access-list 115 permit ip any any

(config)# interface gi 0/0

(config-if)# ip access-group 115 out

- ## IP CONFIGURATION:
  ### PC-PT PC0
  IPv4 Address: 192.168.10.2
  Subnet Mask: 255.255.255.0
  Default Gateway: 192.168.10.1

  ### PC-PT PC1
  IPv4 Address: 192.168.10.3
  Subnet Mask: 255.255.255.0
  Default Gateway: 192.168.10.1

  ### PC-PT PC2
  IPv4 Address: 192.168.11.2
  Subnet Mask: 255.255.255.0
  Default Gateway: 192.168.11.1

  ### PC-PT PC3
  IPv4 Address: 192.168.11.3
  Subnet Mask: 255.255.255.0
  Default Gateway: 192.168.11.1

Server-PT Server0
IPv4 Address: 192.168.12.2
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.12.1

- # OUTPUT: