

---

## Practica PacketTracer

---



UNIVERSIDAD NACIONAL DE TRUJILLO  
**UNT**

---

---

- **Alumno** : Jahir Medina  
- **Codigo** : 1012700115  
- **Curso** : Comunicacion de Datos

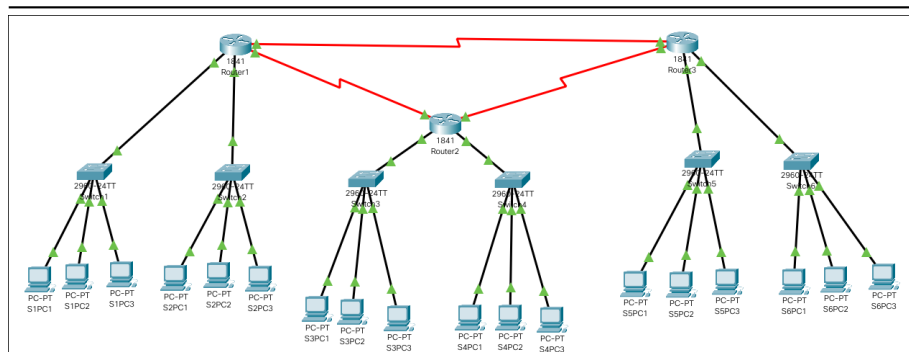
---

---

DICIEMBRE, 2020

---

## Descripcion de la Arquitectura



> Modelo de la Red

---

Se crean 6 Switchs , 3 Routers y 18 Computadoras, por cada Switch 3 Computadoras

Los ip por cada trio de computadoras es:

- **GateWay:** 192.168.1.1
  - **S1PC:** 192.168.1.2
  - **S1PC:** 192.168.1.3
  - **S1PC:** 192.168.1.4
- **GateWay:** 192.168.2.1
  - **S2PC:** 192.168.2.2
  - **S2PC:** 192.168.2.3
  - **S2PC:** 192.168.2.4
- **GateWay:** 192.168.3.1
  - **S3PC:** 192.168.3.2
  - **S3PC:** 192.168.3.3
  - **S3PC:** 192.168.3.4
- **GateWay:** 192.168.4.1
  - **S4PC:** 192.168.4.2
  - **S4PC:** 192.168.4.3
  - **S4PC:** 192.168.4.4
- **GateWay:** 192.168.5.1
  - **S5PC:** 192.168.5.2
  - **S5PC:** 192.168.5.3
  - **S5PC:** 192.168.5.4
- **GateWay:** 192.168.6.1
  - **S6PC:** 192.168.6.2
  - **S6PC:** 192.168.6.3
  - **S6PC:** 192.168.6.4

y por cada Router 2 Switchs Posteriormente se conecta en anillo los 3 Routers, los comandos por cada Router son:

#### **Router 1**

```
Router1(config)# interface FastEthernet0/0
Router1(config-if)# ip address 192.168.1.1 255.255.255.0
Router1(config-if)# no shutdown
Router1(config-if)# exit

Router1(config)# interface FastEthernet0/1
Router1(config-if)# ip address 192.168.2.1 255.255.255.0
Router1(config-if)# no shutdown
Router1(config-if)# exit
```

---

```
Router1(config)# interface Serial0/0/0
Router1(config-if)# ip address 168.10.0.1 255.255.255.0
```

```

Router1(config-if)# exit
Router1(config-if)# no shutdown
Router1(config)# interface Serial0/1/0
Router1(config-if)# ip address 168.20.0.1 255.255.255.0
Router1(config-if)# no shutdown
Router1(config-if)# exit

```

---

```

Router1(config)# ip route 192.168.3.0 255.255.255.0 168.20.0.2
Router1(config)# ip route 192.168.4.0 255.255.255.0 168.20.0.2
Router1(config)# ip route 192.168.5.0 255.255.255.0 168.10.0.2
Router1(config)# ip route 192.168.6.0 255.255.255.0 168.10.0.2

```

**Router 2**

```

Router2(config)# interface FastEthernet0/0
Router2(config-if)# ip address 192.168.3.1 255.255.255.0
Router2(config-if)# no shutdown
Router2(config-if)# exit
Router2(config)# interface FastEthernet0/1
Router2(config-if)# ip address 192.168.4.1 255.255.255.0
Router2(config-if)# no shutdown
Router2(config-if)# exit

```

---

```

Router2(config)# interface Serial0/0/0
Router2(config-if)# ip address 168.20.0.2 255.255.255.0
Router2(config-if)# no shutdown
Router2(config-if)# exit
Router2(config)# interface Serial0/1/0
Router2(config-if)# ip address 192.30.0.1 255.255.255.0
Router2(config-if)# no shutdown
Router2(config-if)# exit

```

---

```
Router2(config)#ip route 192.168.1.0 255.255.255.0 168.20.0.1
Router2(config)#ip route 192.168.2.0 255.255.255.0 168.20.0.1
Router2(config)#ip route 192.168.5.0 255.255.255.0 168.30.0.2
Router2(config)#ip route 192.168.6.0 255.255.255.0 168.30.0.2
```

### **Router 3**

```
Router3(config)# interface FastEthernet0/0
Router3(config-if)# ip address 192.168.5.1 255.255.255.0
Router3(config-if)# no shutdown
Router3(config-if)# exit
Router3(config)# interface FastEthernet0/1
Router3(config-if)# ip address 192.168.6.1 255.255.255.0
Router3(config-if)# no shutdown
Router3(config-if)# exit
```

---

```
Router3(config)# interface Serial0/0/0
Router3(config-if)# ip address 192.30.0.2 255.255.255.0
Router3(config-if)# no shutdown
Router3(config-if)# exit
Router3(config)# interface Serial0/1/0
Router3(config-if)# ip address 192.10.0.2 255.255.255.0
Router3(config-if)# no shutdown
Router3(config-if)# exit
```

---

```
Router3(config)#ip route 192.168.1.0 255.255.255.0 168.10.0.1
Router3(config)#ip route 192.168.2.0 255.255.255.0 168.10.0.1
Router3(config)#ip route 192.168.3.0 255.255.255.0 168.30.0.1
Router3(config)#ip route 192.168.4.0 255.255.255.0 168.30.0.1
```