**Network Setup**

Network Design

**Configure Standard Static Route**

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**Static Routing Table Configuration**

|  |  |  |  |
| --- | --- | --- | --- |
| Device | Interface | Connected To | IP Address |
| Router 1 | GigabitEthernet 0/0/0 | Switch 1 (S1) | 172.16.3.1 |
| Router 1 | Serial 0/1/0 | Router 2 (Serial 0/1/0) | 172.16.2.1 |
| Router 2 | GigabitEthernet 0/0/0 | Switch 2 (S2) | 172.16.1.1 |
| Router 2 | Serial 0/1/0 | Router 1 (Serial 0/1/0) | 172.16.2.2 |
| Router 2 | Serial 0/1/1 | Router 3 (Serial 0/1/1) | 192.168.2.2 |
| Router 3 | GigabitEthernet 0/0/0 | Switch 3 (S3) | 192.168.1.1 |
| Router 3 | Serial 0/1/1 | Router 2 (Serial 0/1/1) | 192.168.2.1 |

1. **Router 1 (R1):**

* **Assign IP addresses:**

R1(config)#interface gigabitEthernet 0/0/0

R1(config-if)#ip address 172.16.3.1 255.255.255.0

R1(config-if)#no shutdown

R1(config-if)#exit

R1(config)#interface serial 0/1/0

R1(config-if)#ip address 172.16.2.1 255.255.255.0

R1(config-if)#no shutdown

* **Set static routes:**

R1(config)#ip route 172.16.1.0 255.255.255.0 172.16.2.2

R1(config)#ip route 192.168.1.0 255.255.255.0 172.16.2.2

1. **Router 2 (R2):**

* **Assign IP addresses:**

R2(config)#interface gigabitEthernet 0/0/0

R2(config-if)#ip address 172.16.1.1 255.255.255.0

R2(config-if)#no shutdown

R2(config-if)#exit

R2(config)#interface serial 0/1/0

R2(config-if)#ip address 172.16.2.2 255.255.255.0

R2(config-if)#no shutdown

R2(config-if)#exit

R2(config)#interface serial 0/1/1

R2(config-if)#ip address 192.168.2.2 255.255.255.0

R2(config-if)#no shutdown

* **Set static routes:**

R2(config)#ip route 172.16.3.0 255.255.255.0 172.16.2.1

R2(config)#ip route 192.168.1.0 255.255.255.0 192.168.2.1

1. **Router 1 (R1):**

* **Assign IP addresses:**

R3(config)#interface gigabitEthernet 0/0/0

R3(config-if)#ip address 192.168.1.1 255.255.255.0

R3(config-if)#no shutdown

R3(config-if)#exit

R3(config)#interface serial 0/1/1

R3(config-if)#ip address 192.168.2.1 255.255.255.0

R3(config-if)#no shutdown

* **Set static routes:**

R3(config)#ip route 172.16.1.0 255.255.255.0 192.168.2.2

R3(config)#ip route 172.16.3.0 255.255.255.0 192.168.2.2

