****
PART 1- Configuració de noms i d'interfícies
****

ROUTER01

```
Router>en
Router#conf t
Router(config)#hostname Router01
Router01(config)#int fa0/0
Router01(config-if)#ip address 192.168.1.1 255.255.255.0
Router01(config-if)#no shutdown
Router01(config-if)#exit
Router01(config)#int s0/3/0
Router01(config-if)#ip address 192.168.4.1 255.255.255.0
Router01(config-if)#no shutdown
Router01(config-if)#exit
Router01(config)#int s0/3/1
Router01(config-if)#ip address 192.168.6.1 255.255.255.0
Router01(config-if)#clock rate 64000
Router01(config-if)#no shutdown
Router01(config-if)#exit
Router01(config)#exit
Router01#copy running-config startup-config
```

ROUTER02

```
Router>en
Router#conf t
Router(config)#hostname Router02
Router02(config)#int fa0/0
Router02(config-if)#ip address 192.168.2.1 255.255.255.0
Router02(config-if)#no shutdown
Router02(config-if)#exit
Router02(config)#int s0/3/0
Router02(config-if)#ip address 192.168.5.2 255.255.255.0
Router02(config-if)#no shutdown
Router02(config-if)#exit
Router02(config)#int s0/3/1
Router02(config-if)#ip address 192.168.6.2 255.255.255.0
Router02(config-if)#no shutdown
Router02(config-if)#exit
Router02(config)#exit
Router02#copy running-config startup-config
```

ROUTER03

```
Router>en
Router#conf t
Router(config)#hostname Router03
Router03(config)#int fa0/0
Router03(config-if)#ip address 192.168.3.1 255.255.255.0
Router03(config-if)#no shutdown
Router03(config-if)#exit
Router03(config)#int s0/3/0
Router03(config-if)#ip address 192.168.4.2 255.255.255.0
Router03(config-if)#clock rate 64000
Router03(config-if)#no shutdown
Router03(config-if)#exit
Router03(config)#int s0/3/1
Router03(config-if)#ip address 192.168.5.1 255.255.255.0
Router03(config-if)#clock rate 64000
Router03(config-if)#no shutdown
Router03(config-if)#exit
Router03(config)#exit
Router03#copy running-config startup-config
```

****
PART 2- Configuració RIP v2
****

ROUTER01

```
Router01#conf t
Router01(config)#router rip
Router01(config-router)#version 2
Router01(config-router)#network 192.168.1.0
Router01(config-router)#network 192.168.4.0
Router01(config-router)#exit
Router01(config)#exit
Router01#copy running-config startup-config
```

ROUTER02

```
Router02#conf t
Router02(config)#router rip
Router02(config-router)#version 2
Router02(config-router)#network 192.168.2.0
Router02(config-router)#network 192.168.5.0
Router02(config-router)#exit
Router02(config)#exit
Router02#copy running-config startup-config
```

ROUTER03

```
Router03#conf te
Router03(config)#router rip
Router03(config-router)#version 2
Router03(config-router)#network 192.168.3.0
Router03(config-router)#network 192.168.4.0
Router03(config-router)#network 192.168.5.0
Router03(config-router)#exit
Router03(config)#exit
Router03#copy running-config startup-config
```

****
PART 3- Configuració rutes estàtiques Router01 i Router02
****

ROUTER01

```
Router01#conf t
Router01(config)#ip route 192.168.2.0 255.255.255.0 192.168.6.2
Router01(config)#exit
Router01#copy running-config startup-config
```

ROUTER02

```
Router02#conf t
Router02(config)#ip route 192.168.1.0 255.255.255.0 192.168.6.1
Router02(config)#exit
Router02#copy running-config startup-config
```

****
PART 4- Comprovacions del protocol RIPv2 i rutes
****

Mode privilegiat

- show ip protocols
  - R01 -> Comprova interfćies de recepció, routes i gateway
  - R02 -> Comprova interfćies de recepció, routes i gateway
  - R03 -> Comprova interfćies de recepció, routes i gateway
- show ip route
  - R01 -> R per arribar a subxarxa 3 i 5. Comprova mèt i dist.
    S per arribar a subxarxa 2. Comprova mèt i dist.
  - R01 -> R per arribar a subxarxa 3 i 4. Comprova mèt i dist.
    S per arribar a subxarxa 1. Comprova mèt i dist.
  - R03 -> R per arribar a subxarxa 1 i 2. Comprova mèt i dist.

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PART 5- Comprovacions finals
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Amb simulació comprova per on passa paquet ICMP des de:

- PC01 a PC02
- PC01 a PC03
- PC02 a PC01
- PC02 a PC03
- PC03 a PC01
- PC03 a PC02