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

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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
```

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**PART 2- Configuració RIP v2**

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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
```

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

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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
```

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

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Mode privilegiat

show ip protocols

R01 -> Comprova interfícies de recepció, rutes i gateway  
R02 -> Comprova interfícies de recepció, rutes i gateway  
R03 -> Comprova interfícies de recepció, rutes 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