**Formulario final**

**Alumno 1:**

**Nº de matrícula:**

**Alumno 2:**

**Nº de matrícula:**

**Matrícula más baja:**

**Resultado 1:**

**Resultado 3:**

# Redes

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Subred** | **Número de hosts** | **Dirección de**  **Subred** | **Máscara** | **Broadcast** | **1ª dirección de host** | **Última dirección de host** |
| RED 1 | 26 | 172.16.0.0 | 27 | 172.16.0.31 | 172.16.0.1 | 172.16.0.30 |
| RED 2 | 320 | 172.16.2.0 | 23 | 172.16.3.255 | 172.16.2.1 | 172.16.3.254 |
| RED 3 | 190 | 172.16.4.0 | 24 | 172.16.4.255 | 172.16.4.1 | 172.16.4.254 |
| RED 4 | 800 | 172.16.8.0 | 22 | 172.16.11.255 | 172.16.8.1 | 172.16.11.254 |
| RED 5 | 1500 | 172.162.16.0 | 21 | 172.16.23.255 | 172.16.16.1 | 172.16.23.254 |
| Enlace Público | 2 | 138.10.0.1 | 30 | 138.10.0.3 | 138.10.0.1 | 138.10.0.2 |
| RED 6 | 2 | 192.168.1.0 | 30 | 192.168.1.3 | 192.168.1.1 | 192.168.1.2 |
| RED 7 | 2 | 192.168.1.4 | 30 | 192.168.1.7 | 192.168.1.5 | 192.168.1.6 |

**NAT y servidores internos**

Indique el comando, con todos sus parámetros, empleado para resolver el apartado 6.2 de la práctica.

Hay que ir al comando del Router 1. Insertar:

Router1(config)# ip nat inside source static tcp

Router1(config) #interface number type

Router1(config-if) #ip nat inside

Router(config-if) # exit

## **Rutas**

Indicar la tabla de rutas de cada router para tener conectividad completa (todas las subredes más Internet)

**R1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dirección destino** | **Máscara** | **Interfaz** | **Siguiente salto** |
| ·172.16.16.0 | 255.255.248.0 | Serial 0/1/0 | 192.168.1.5 |
| ·172.16.8.0 | 255.255.252.0 | Serial 0/1/0 | 192.168.1.5 |
| ·172.16.4.0 | 255.255.255.0 | Serial 0/0/1 | 192.168.1.2 |
| ·172.16.2.0 | 255.255.254.0 | GigabitEthernet0/1 | - |
| ·172.16.0.0 | 255.255.255.224 | GigabitEthernet0/0 | - |
| ·0.0.0.0 | 0.0.0.0 | Serial 0/0/0 | 138.10.0.2 |
| · |  |  |  |

**R2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dirección destino** | **Máscara** | **Interfaz** | **Siguiente salto** |
| ·172.16.16.0 | 255.255.248.0 | Serial 0/0/1 | 192.168.1.1 |
| ·172.16.8.0 | 255.255.252.0 | Serial 0/0/1 | 192.168.1.1 |
| ·172.16.4.0 | 255.255.255.0 | GigabitEthernet0/0 | - |
| ·172.16.2.0 | 255.255.254.0 | Serial 0/0/0 | 192.168.1.6 |
| ·172.16.0.0 | 255.255.255.224 | Serial 0/0/0 | 192.168.1.6 |
| 0.0.0.0 | 0.0.0.0 | Serial 0/0/0 | 192.168.1.6 |
| · |  |  |  |

**R3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dirección destino** | **Máscara** | **Interfaz** | **Siguiente salto** |
| ·172.16.16.0 | 255.255.248.0 | GigabitEthernet0/1 | - |
| ·172.16.8.0 | 255.255.252.0 | GigabitEthernet0/0 | - |
| ·172.16.4.0 | 255.255.255.0 | Serial 0/0/1 | 192.168.1.2 |
| ·172.16.2.0 | 255.255.254.0 | Serial 0/0/0 | 192.168.1.6 |
| ·172.16.0.0 | 255.255.255.224 | Serial 0/0/0 | 192.168.1.6 |
| . |  |  |  |
| · |  |  |  |