**Introducción a Sistemas Distribuidos**

**Trabajo Práctico Grupal**

**Diseño y configuración sobre una topología de red**

**Grupo 3**

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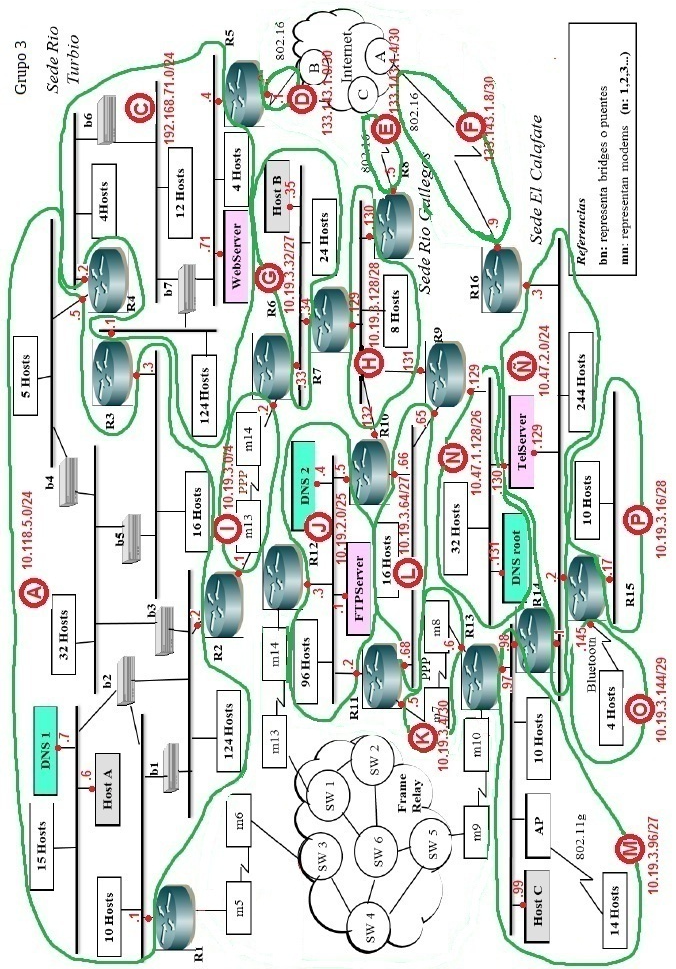
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**Subnetting**

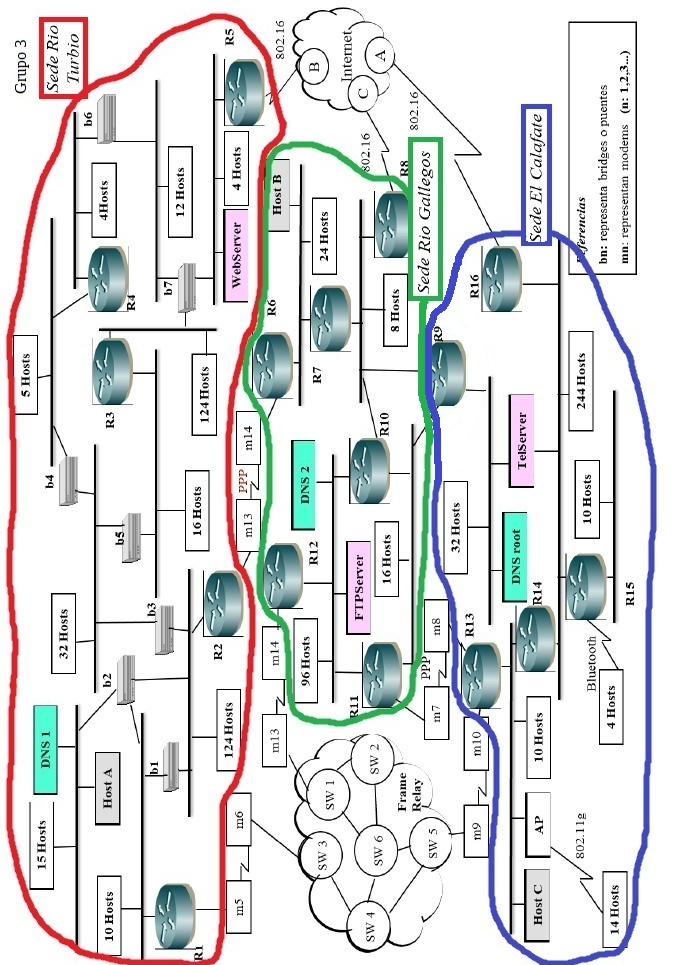
A partir de la topología entregada y el espacio de direccionamiento asignado se procedió a realizar el subnetting de la red. La resolución de direcciones asignadas se realizó siguiendo la RFC 950. El espacio de direccionamiento asignado a cada subred es el que se muestra en la siguiente tabla:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Red | Marca | Routers que la forman | Direcciones necesarias | Mascara IP | Direccion de red IP |
| **A** | Trek | R1-R2-R3-R4 | 211 | /24 | 10.118.5.0 |
| **B1** | Coluer | R1-R12 (FrameRelay) | 4 | /30 | 172.143.0.64 |
| **B2** | Bianchi | R1-R13 (FrameRelay) | 4 | /30 | 172.143.0.68 |
| **B3** | Yeti | R12-R13 (FrameRelay) | 4 | /30 | 172.143.0.72 |
| **C** | Specialized | R3-R4-R5 | 151 | /24 | 192.168.71.0 |
| **D** | Pinarello | R5-Rint (cloud) | 4 | /30 | 133.143.1.0 |
| **E** | Cube | R8-Rint (cloud) | 4 | /30 | 133.143.1.4 |
| **F** | Fuji | R16-Rint (cloud) | 4 | /30 | 133.143.1.8 |
| **G** | GT | R6-R7 | 29 | /27 | 10.19.3.32 |
| **H** | Lapierre | R7-R8-R9-R10 | 15 | /28 | 10.19.3.128 |
| **I** | Raleigh | R2-R6 | 4 | /30 | 10.19.3.0 |
| **J** | BH | R10-R11-R12 | 103 | /25 | 10.19.2.0 |
| **K** | MMR | R11-R13 | 4 | /30 | 10.19.3.4 |
| **L** | Cannondale | R9-R10-R11 | 22 | /27 | 10.19.3.64 |
| **M** | Scott | R13-R14 | 29 | /27 | 10.19.3.96 |
| **N** | Giant | R9 | 37 | /26 | 10.47.1.128 |
| **Ñ** | Orbea | R14-R15-R16 | 250 | /24 | 10.47.2.0 |
| **O** | Kona | R15.1 | 7 | /29 | 10.19.3.144 |
| **P** | Merida | R15.2 | 13 | /28 | 10.19.3.16 |
| **Q** | Conor | GRE - R5-R8 | 4 | /30 | 10.19.3.8 |
| **R** | Marin | GRE - R16-R8 | 4 | /30 | 10.19.3.12 |
| **S** | Ghost | GRE - R5-R16 | 4 | /30 | 10.19.3.152 |

**Fragmentación de la red**



**Diagrama de las sedes**



**Configuración IP de routers, servers, hosts y dns**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Router** | **(Red )IP** | | | |
| **R1** | (A) 10.118.5.1 | (B1) 172.143.0.65 | (B2) 172.143.0.69 |  |
| **R2** | (A) 10.118.5.2 | (I) 10.19.3.1 |  |  |
| **R3** | (A) 10.118.5.3 | (C) 192.168.71.1 |  |  |
| **R4** | (A) 10.118.5.4 | (C) 192.168.71.2 |  |  |
| **R virtual 3-4** | (A) 10.118.5.5 | (C) 192.168.71.3 |  |  |
| **R5** | (C) 192.168.71.4 | (D) 133.143.1.1 | (Q) 10.19.3.9 (T-10) | (S) 10.19.3.153 (T-20) |
| **R6** | (G) 10.19.3.33 | (I) 10.19.3.2 |  |  |
| **R7** | (G) 10.19.3.34 | (H) 10.19.3.129 |  |  |
| **R8** | (E) 133.143.1.5 | (H) 10.19.3.130 | (Q) 10.19.3.10 (T-40) | (R) 10.19.3.13 (T-50) |
| **R9** | (H) 10.19.3.131 | (L) 10.19.3.65 | (N) 10.47.1.129 |  |
| **R10** | (H) 10.19.3.132 | (J) 10.19.2.5 | (L) 10.19.3.66 |  |
| **R virtual 9-10** | (H) 10.19.3.133 | (L) 10.19.3.67 |  |  |
| **R11** | *(J) 10.19.2.2* | (K) 10.19.3.5 | (L) 10.19.3.68 |  |
| **R12** | (B1) 172.143.0.66 | (J) 10.19.2.3 | (B3) 172.143.0.73 |  |
| **R13** | (B2) 172.143.0.70 | (K) 10.19.3.6 | (M) 10.19.3.97 | (B3) 172.143.0.74 |
| **R14** | (M) 10.19.3.98 | (Ñ) 10.47.2.1 |  |  |
| **R15** | (Ñ) 10.47.2.2 | (O) 10.19.3.145 | (P) 10.19.3.17 |  |
| **R16** | (F) 133.143.1.9 | (Ñ) 10.47.2.3 | (R) 10.19.3.14 (T-80) | (S) 10.19.3.154 (T-70) |
| **R Internet** | (D) 133.143.1.2 | (E) 133.143.1.6 | (F) 133.143.1.10 |  |
| **HostA** | (A) 10.118.5.6 |  |  |  |
| **HosB** | (G) 10.19.3.35 |  |  |  |
| **HostC** | (M) 10.19.3.99 |  |  |  |
| **TelServer** | (N) 10.47.1.130 | (Ñ) 10.47.2.129 |  |  |
| **FTP Server** | (J) 10.19.2.1 |  |  |  |
| **WebServer** | (C) 192.168.71.71 |  |  |  |
| **DNS root** | (N) 10.47.1.131 |  |  |  |
| **DNS 1** | (A) 10.118.5.7 |  |  |  |
| **DNS 2** | (J) 10.19.2.4 |  |  |  |

**Ruteo**

Aquí se observará los diferentes tipos de ruteos aplicados a cada parte de la red. En el caso de ruteo estático, se muestran las tablas de ruteo de los routers en cuestión. En el caso de ruteo dinámico, se da una breve explicación del funcionamiento del protocolo de ruteo utilizado y los comandos necesarios para configurar al mismo.

**Ruteo estático – Rutas principales**

**R1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Dirección de red** | **Máscara** | **Next Hop** |
| C | 192.168.71.0 | 255.255.255.0 | 10.118.5.5 |
| G | 10.19.3.32 | 255.255.255.224 | 10.118.5.2 |
| H | 10.19.3.128 | 255.255.255.192 | 172.143.0.66 |
| I | 10.19.3.0 | 255.255.255.252 | 10.118.5.2 |
| J | 10.19.2.0 | 255.255.255.128 | 172.143.0.66 |
| K | 10.19.3.4 | 255.255.255.252 | 172.143.0.70 |
| L | 10.19.3.64 | 255.255.255.224 | 172.143.0.66 |
| M | 10.19.3.96 | 255.255.255.224 | 172.143.0.70 |
| N | 10.47.1.128 | 255.255.255.192 | 172.143.0.66 |
| Ñ | 10.47.2.0 | 255.255.255.0 | 172.143.0.70 |
| O | 10.19.3.144 | 255.255.255.248 | 172.143.0.70 |
| P | 10.19.3.16 | 255.255.255.240 | 172.143.0.70 |

**R2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Dirección de red** | **Máscara** | **Next Hop** |
| B1 | 172.143.0.64 | 255.255.255.252 | 10.118.5.1 |
| B2 | 172.143.0.68 | 255.255.255.252 | 10.118.5.1 |
| B3 | 172.143.0.72 | 255.255.255.252 | 10.118.5.1 |
| C | 192.168.71.0 | 255.255.255.0 | 10.118.5.5 |
| G | 10.19.3.32 | 255.255.255.224 | 10.19.3.2 |
| H | 10.19.3.128 | 255.255.255.192 | 10.19.3.2 |
| I | 10.19.3.0 | 255.255.255.252 | 10.118.5.2 |
| J | 10.19.2.0 | 255.255.255.128 | 10.118.5.1 |
| K | 10.19.3.4 | 255.255.255.252 | 10.118.5.1 |
| L | 10.19.3.64 | 255.255.255.224 | 10.19.3.2 |
| M | 10.19.3.96 | 255.255.255.224 | 10.118.5.1 |
| N | 10.47.1.128 | 255.255.255.192 | 10.19.3.2 |
| Ñ | 10.47.2.0 | 255.255.255.0 | 10.118.5.1 |
| O | 10.19.3.144 | 255.255.255.248 | 10.118.5.1 |
| P | 10.19.3.16 | 255.255.255.240 | 10.118.5.1 |

**R3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Dirección de red** | **Máscara** | **Next Hop** |
| B1 | 172.143.0.64 | 255.255.255.252 | 10.118.5.1 |
| B2 | 172.143.0.68 | 255.255.255.252 | 10.118.5.1 |
| B3 | 172.143.0.72 | 255.255.255.252 | 10.118.5.1 |
| G | 10.19.3.32 | 255.255.255.224 | 10.118.5.2 |
| H | 10.19.3.128 | 255.255.255.192 | 10.118.5.1 |
| I | 10.19.3.0 | 255.255.255.252 | 10.118.5.2 |
| J | 10.19.2.0 | 255.255.255.128 | 10.118.5.1 |
| K | 10.19.3.4 | 255.255.255.252 | 10.118.5.1 |
| L | 10.19.3.64 | 255.255.255.224 | 10.118.5.1 |
| M | 10.19.3.96 | 255.255.255.224 | 10.118.5.1 |
| N | 10.47.1.128 | 255.255.255.192 | 10.118.5.1 |
| Ñ | 10.47.2.0 | 255.255.255.0 | 10.118.5.1 |
| O | 10.19.3.144 | 255.255.255.248 | 10.118.5.1 |
| P | 10.19.3.16 | 255.255.255.240 | 10.118.5.1 |

**R4**

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Dirección de red** | **Máscara** | **Next Hop** |
| B1 | 172.143.0.64 | 255.255.255.252 | 10.118.5.1 |
| B2 | 172.143.0.68 | 255.255.255.252 | 10.118.5.1 |
| B3 | 172.143.0.72 | 255.255.255.252 | 10.118.5.1 |
| G | 10.19.3.32 | 255.255.255.224 | 10.118.5.2 |
| H | 10.19.3.128 | 255.255.255.192 | 10.118.5.1 |
| I | 10.19.3.0 | 255.255.255.252 | 10.118.5.2 |
| J | 10.19.2.0 | 255.255.255.128 | 10.118.5.1 |
| K | 10.19.3.4 | 255.255.255.252 | 10.118.5.1 |
| L | 10.19.3.64 | 255.255.255.224 | 10.118.5.1 |
| M | 10.19.3.96 | 255.255.255.224 | 10.118.5.1 |
| N | 10.47.1.128 | 255.255.255.192 | 10.118.5.1 |
| Ñ | 10.47.2.0 | 255.255.255.0 | 10.118.5.1 |
| O | 10.19.3.144 | 255.255.255.248 | 10.118.5.1 |
| P | 10.19.3.16 | 255.255.255.240 | 10.118.5.1 |

**R5**

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Dirección de red** | **Máscara** | **Next Hop** |
| A | 10.118.5.0 | 255.255.255.0 | 192.168.71.3 |
| B1 | 172.143.0.64 | 255.255.255.252 | 192.168.71.3 |
| B2 | 172.143.0.68 | 255.255.255.252 | 192.168.71.3 |
| B3 | 172.143.0.72 | 255.255.255.252 | 192.168.71.3 |
| G | 10.19.3.32 | 255.255.255.224 | 192.168.71.3 |
| H | 10.19.3.128 | 255.255.255.192 | 10.19.3.10 |
| I | 10.19.3.0 | 255.255.255.252 | 192.168.71.3 |
| J | 10.19.2.0 | 255.255.255.128 | 192.168.71.3 |
| K | 10.19.3.4 | 255.255.255.252 | 192.168.71.3 |
| L | 10.19.3.64 | 255.255.255.224 | 10.19.3.10 |
| M | 10.19.3.96 | 255.255.255.224 | 192.168.71.3 |
| N | 10.47.1.128 | 255.255.255.192 | 10.19.3.10 |
| Ñ | 10.47.2.0 | 255.255.255.0 | 10.19.3.154 |
| O | 10.19.3.144 | 255.255.255.248 | 10.19.3.154 |
| P | 10.19.3.16 | 255.255.255.240 | 10.19.3.154 |

**R9**

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Dirección de red** | **Máscara** | **Next Hop** |
| A | 10.118.5.0 | 255.255.255.0 | 10.19.3.129 |
| B1 | 172.143.0.64 | 255.255.255.252 | 10.19.3.68 |
| B2 | 172.143.0.68 | 255.255.255.252 | 10.19.3.68 |
| B3 | 172.143.0.72 | 255.255.255.252 | 10.19.3.68 |
| C | 192.168.71.0 | 255.255.255.0 | 10.19.3.129 |
| G | 10.19.3.32 | 255.255.255.224 | 10.19.3.129 |
| I | 10.19.3.0 | 255.255.255.252 | 10.19.3.129 |
| J | 10.19.2.0 | 255.255.255.128 | 10.19.3.68 |
| K | 10.19.3.4 | 255.255.255.252 | 10.19.3.68 |
| M | 10.19.3.96 | 255.255.255.224 | 10.19.3.68 |
| Ñ | 10.47.2.0 | 255.255.255.0 | 10.19.3.68 |
| O | 10.19.3.144 | 255.255.255.248 | 10.19.3.68 |
| P | 10.19.3.16 | 255.255.255.240 | 10.19.3.68 |

**R13**

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Dirección de red** | **Máscara** | **Next Hop** |
| A | 10.118.5.0 | 255.255.255.0 | 172.143.0.69 |
| C | 192.168.71.0 | 255.255.255.0 | 172.143.0.69 |
| G | 10.19.3.32 | 255.255.255.224 | 10.19.3.5 |
| H | 10.19.3.128 | 255.255.255.192 | 172.143.0.73 |
| I | 10.19.3.0 | 255.255.255.252 | 172.143.0.69 |
| J | 10.19.2.0 | 255.255.255.128 | 172.143.0.73 |
| L | 10.19.3.64 | 255.255.255.224 | 10.19.3.5 |
| N | 10.47.1.128 | 255.255.255.192 | 10.19.3.5 |
| Ñ | 10.47.2.0 | 255.255.255.0 | 10.19.3.98 |
| O | 10.19.3.144 | 255.255.255.248 | 10.19.3.98 |
| P | 10.19.3.16 | 255.255.255.240 | 10.19.3.98 |

**R14**

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Dirección de red** | **Máscara** | **Next Hop** |
| A | 10.118.5.0 | 255.255.255.0 | 10.19.3.97 |
| B1 | 172.143.0.64 | 255.255.255.252 | 10.19.3.97 |
| B2 | 172.143.0.68 | 255.255.255.252 | 10.19.3.97 |
| B3 | 172.143.0.72 | 255.255.255.252 | 10.19.3.97 |
| C | 192.168.71.0 | 255.255.255.0 | 10.19.3.97 |
| G | 10.19.3.32 | 255.255.255.224 | 10.47.2.3 |
| H | 10.19.3.128 | 255.255.255.192 | 10.19.3.97 |
| I | 10.19.3.0 | 255.255.255.252 | 10.19.3.97 |
| J | 10.19.2.0 | 255.255.255.128 | 10.19.3.97 |
| K | 10.19.3.4 | 255.255.255.252 | 10.19.3.97 |
| L | 10.19.3.64 | 255.255.255.224 | 10.19.3.97 |
| N | 10.47.1.128 | 255.255.255.192 | 10.19.3.97 |
| O | 10.19.3.144 | 255.255.255.248 | 10.47.2.2 |
| P | 10.19.3.16 | 255.255.255.240 | 10.47.2.2 |

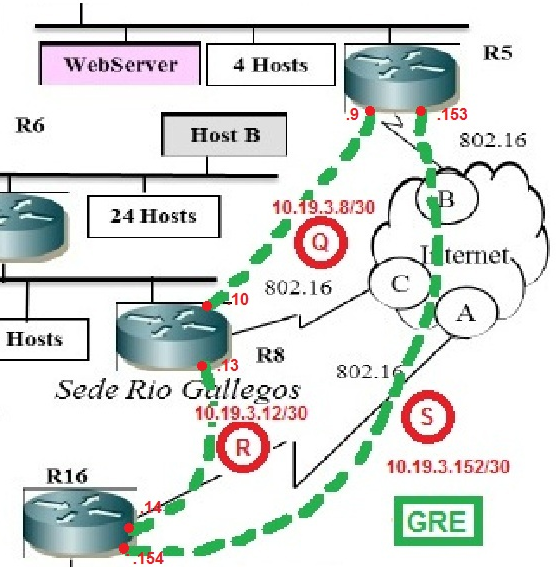
**R15**

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Dirección de red** | **Máscara** | **Next Hop** |
| A | 10.118.5.0 | 255.255.255.0 | 10.47.2.1 |
| B1 | 172.143.0.64 | 255.255.255.252 | 10.47.2.1 |
| B2 | 172.143.0.68 | 255.255.255.252 | 10.47.2.1 |
| B3 | 172.143.0.72 | 255.255.255.252 | 10.47.2.1 |
| C | 192.168.71.0 | 255.255.255.0 | 10.47.2.3 |
| G | 10.19.3.32 | 255.255.255.224 | 10.47.2.3 |
| H | 10.19.3.128 | 255.255.255.192 | 10.47.2.3 |
| I | 10.19.3.0 | 255.255.255.252 | 10.47.2.1 |
| J | 10.19.2.0 | 255.255.255.128 | 10.47.2.1 |
| K | 10.19.3.4 | 255.255.255.252 | 10.47.2.1 |
| L | 10.19.3.64 | 255.255.255.224 | 10.47.2.1 |
| M | 10.19.3.96 | 255.255.255.224 | 10.47.2.1 |
| N | 10.47.1.128 | 255.255.255.192 | 10.47.2.3 |
| Q | 10.19.3.8 | 255.255.255.248 | 10.47.2.3 |

**R16**

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Dirección de red** | **Máscara** | **Next Hop** |
| A | 10.118.5.0 | 255.255.255.0 | 10.47.2.1 |
| B1 | 172.143.0.64 | 255.255.255.252 | 10.47.2.1 |
| B2 | 172.143.0.68 | 255.255.255.252 | 10.47.2.1 |
| B3 | 172.143.0.72 | 255.255.255.252 | 10.47.2.1 |
| C | 192.168.71.0 | 255.255.255.0 | 10.19.3.153 |
| G | 10.19.3.32 | 255.255.255.224 | 10.19.3.13 |
| H | 10.19.3.128 | 255.255.255.192 | 10.19.3.13 |
| I | 10.19.3.0 | 255.255.255.252 | 10.19.3.13 |
| J | 10.19.2.0 | 255.255.255.128 | 10.47.2.1 |
| K | 10.19.3.4 | 255.255.255.252 | 10.47.2.1 |
| L | 10.19.3.64 | 255.255.255.224 | 10.19.3.13 |
| M | 10.19.3.96 | 255.255.255.224 | 10.47.2.1 |
| N | 10.47.1.128 | 255.255.255.192 | 10.19.3.13 |
| O | 10.19.3.144 | 255.255.255.248 | 10.47.2.2 |
| P | 10.19.3.16 | 255.255.255.240 | 10.47.2.2 |

**Túneles GRE**



Utilizando el tutorial expuesto en la cátedra, se crearon túneles GRE para encapsular en la red las conexiones de los routers R5, R8 y R16 a Internet. En el diagrama anterior se puede observar el equivalente de la topología luego de implementar los túneles GRE. Gracias al mismo, se crea una conexión punto a punto entre R5 y R8, R8 y R16, R16 y R5.

Se exhibe a continuación, la configuración pertinente al protocolo GRE en los routers mencionados anteriormente:

**R5**

interface Tunnel10

ip address 10.19.3.9 255.255.255.252

tunnel source 133.143.1.1

tunnel destination 133.143.1.5

interface Tunnel20

ip address 10.19.3.153 255.255.255.252

tunnel source 133.143.1.1

tunnel destination 133.143.1.9

**R8**

interface Tunnel40

ip address 10.19.3.10 255.255.255.252

tunnel source 133.143.1.5

tunnel destination 133.143.1.1

interface Tunnel50

ip address 10.19.3.13 255.255.255.252

tunnel source 133.143.1.5

tunnel destination 133.143.1.9

**R16**

interface Tunnel70

ip address 10.19.3.154 255.255.255.252

tunnel source 133.143.1.9

tunnel destination 133.143.1.1

interface Tunnel80

ip address 10.19.3.14 255.255.255.252

tunnel source 133.143.1.9

tunnel destination 133.143.1.5

**Frame Relay**

Para el armado de la red Frame Relay se usaron 6 routers con las siguientes configuraciones de DLCI en cada uno:

**FR1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface In** | **DLCI In** | **Interface Out** | **DLCI Out** |
| s0/0 | 21 | Serial0/1 | 211 |
| s0/0 | 21 | Serial0/2 | 211 |
| s0/0 | 23 | Serial0/1 | 231 |
| s0/0 | 23 | Serial0/2 | 231 |
| s0/1 | 122 | Serial0/0 | 21 |
| s0/1 | 322 | Serial0/0 | 23 |
| s0/2 | 126 | Serial0/0 | 21 |
| s0/2 | 326 | Serial0/0 | 23 |

**FR2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface In** | **DLCI In** | **Interface Out** | **DLCI Out** |
| s0/0 | 211 | Serial0/1 | 212 |
| s0/0 | 231 | Serial0/1 | 232 |
| s0/1 | 126 | Serial0/0 | 122 |
| s0/1 | 326 | Serial0/0 | 322 |

**FR3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface In** | **DLCI In** | **Interface Out** | **DLCI Out** |
| s0/0 | 13 | Serial0/1 | 133 |
| s0/0 | 12 | Serial0/1 | 123 |
| s0/1 | 214 | Serial0/0 | 12 |
| s0/1 | 314 | Serial0/0 | 13 |

**FR4**

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface In** | **DLCI In** | **Interface Out** | **DLCI Out** |
| s0/0 | 133 | Serial0/1 | 134 |
| s0/0 | 133 | Serial0/2 | 134 |
| s0/0 | 123 | Serial0/1 | 124 |
| s0/0 | 123 | Serial0/2 | 124 |
| s0/1 | 216 | Serial0/0 | 214 |
| s0/1 | 316 | Serial0/0 | 314 |
| s0/1 | 236 | Serial0/2 | 234 |
| s0/2 | 215 | Serial0/0 | 214 |
| s0/2 | 315 | Serial0/0 | 314 |
| s0/2 | 325 | Serial0/1 | 324 |

**FR5**

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface In** | **DLCI In** | **Interface Out** | **DLCI Out** |
| s0/0 | 31 | Serial0/1 | 315 |
| s0/0 | 31 | Serial0/2 | 315 |
| s0/0 | 32 | Serial0/1 | 325 |
| s0/0 | 32 | Serial0/2 | 325 |
| s0/1 | 134 | Serial0/0 | 31 |
| s0/1 | 124 | Serial0/2 | 125 |
| s0/1 | 234 | Serial0/0 | 32 |
| s0/2 | 136 | Serial0/0 | 31 |
| s0/2 | 236 | Serial0/0 | 32 |
| s0/2 | 216 | Serial0/1 | 215 |

**FR6**

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface In** | **DLCI In** | **Interface Out** | **DLCI Out** |
| s0/0 | 211 | Serial0/2 | 216 |
| s0/0 | 211 | Serial0/3 | 216 |
| s0/0 | 231 | Serial0/2 | 236 |
| s0/0 | 231 | Serial0/3 | 236 |
| s0/1 | 212 | Serial0/2 | 216 |
| s0/1 | 212 | Serial0/3 | 216 |
| s0/1 | 232 | Serial0/2 | 236 |
| s0/1 | 232 | Serial0/3 | 236 |
| s0/2 | 124 | Serial0/0 | 126 |
| s0/2 | 124 | Serial0/1 | 126 |
| s0/2 | 134 | Serial0/3 | 136 |
| s0/2 | 324 | Serial0/0 | 326 |
| s0/2 | 324 | Serial0/1 | 326 |
| s0/3 | 315 | Serial0/2 | 126 |
| s0/3 | 325 | Serial0/0 | 326 |
| s0/3 | 325 | Serial0/1 | 326 |
| s0/3 | 125 | Serial0/0 | 126 |
| s0/3 | 125 | Serial0/1 | 126 |