**CESAR LEONEL CHAMALE SICAN - 201700634 GRUPO: 8**

La X significa el [Número de Grupo + 2 Últimos Números de su carnet]

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | 201700634 |  |  |
| x | = | 8 | + | 3 | + | 4 |
| x | = | 15 |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| TOPOLOGIA | DIRECCION IP | GATEWAY |
| 1 | 192.168.151.10/24 | 192.168.151.1 |
| 2 | 192.168.151.20/24 | 192.168.151.1 |
| 3 | 192.168.152.10/24 | 192.168.152.1 |
| 4 | 192.168.152.20/24 | 192.168.152.1 |
| 5 | 192.168.153.10/24 | 192.168.153.1 |
| 6 | 192.168.153.20/24 | 192.168.153.1 |

|  |  |  |  |
| --- | --- | --- | --- |
| TOPOLOGIA | DIRECCION DE RED | PRIMERA DIRECCION ASIGNABLE | GATEWAY |
| R1-R2 | 172.151.0.0/16 | 172.151.0.1 | N.A. |
| R1-R3 | 172.152.0.0/16 | 172.152.0.1 | N.A. |
| R3-R2 | 172.153.0.0/16 | 172.153.0.1 | N.A. |

CONFIGURAMOS EL PUERTO EN LOS SWITCHES PARA PONERLOS EN MODO TRUNCAL

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

CONFIGURAMOS EL MODO DE FASTHETERNET Y PUERTOS SERIAL EN CADA ROUTER

* el Router con Seriales en el Slot 1

A screenshot of a computer

Description automatically generated

el Router con Seriales en el Slot 2

A screenshot of a computer

Description automatically generated

* el Router con Seriales en el Slot 3

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Description automatically generated

conectar los Routers de esta manera:

* R1 – R2 **S1/0 – S2/0**
* R1 – R3 **S1/1 – S3/0**
* R2 – R3 **S2/1 -S3-1**

Diagram, schematic

Description automatically generated

CONFIGURAMOS TODOS LA CONECCIONES DE LA SIGUIENTE MANERA:

Chart, radar chart

Description automatically generated

**COMANDOS:**

**VPCs**

VPC1

ip 192.168.151.10/24 192.168.151.1

save

VPC 2

ip 192.168.151.20/24 192.168.151.1

save

VPC 3

ip 192.168.152.10/24 192.168.152.1

save

VPC 4

ip 192.168.152.20/24 192.168.152.1

save

VPC 5

ip 192.168.153.10/24 192.168.153.1

save

VPC 6

ip 192.168.153.20/24 192.168.153.1

save

**Routers (Interfaces de comunicación con SWITCHES)**

**R1**

configure terminal

int f0/0

ip address 192.168.153.1 255.255.255.0

no shutdown

exit

**R2**

configure terminal

int f0/0

ip address 192.168.152.1 255.255.255.0

no shutdown

exit

**R3**

configure terminal

int f0/0

ip address 192.168.151.1 255.255.255.0

no shutdown

exit

**Routers (Interfaces de comunicación con VPCs)**

**R1 - R2**

configure terminal

int s1/0

ip address 172.151.0.1 255.255.0.0

no shutdown

exit

**R2 - R1**

configure terminal

int s2/0

ip address 172.151.0.2 255.255.0.0

no shutdown

exit

**R1 - R3**

configure terminal

int s1/1

ip address 172.152.0.1 255.255.0.0

no shutdown

exit

**R3 - R1**

configure terminal

int s3/0

ip address 172.152.0.2 255.255.0.0

no shutdown

exit

**R3 - R2**

configure terminal

int s3/1

ip address 172.153.0.1 255.255.0.0

no shutdown

exit

**R2 - R3**

configure terminal

int s2/1

ip address 172.153.0.2 255.255.0.0

no shutdown

exit

**PINGS**

**1**

**ping 192.168.151.10**

**2**

**ping 192.168.151.20**

**3**

**ping 192.168.152.10**

**4**

**ping 192.168.152.20**

**5**

**ping 192.168.153.10**

**6**

**ping 192.168.153.20**

**Routers (Enrutamiento estático)**

**R1 - R2**

conf t

ip route 192.168.152.0 255.255.255.0 172.151.0.2

exit

**R2 - R1**

conf t

ip route 192.168.153.0 255.255.255.0 172.151.0.1

exit

**R1 - R3**

conf t

ip route 192.168.151.0 255.255.255.0 172.152.0.2

exit

**R3 - R1**

conf t

ip route 192.168.153.0 255.255.255.0 172.152.0.1

exit

**R3 - R2**

conf t

ip route 192.168.152.0 255.255.255.0 172.153.0.2

exit

**R2 - R3**

conf t

ip route 192.168.151.0 255.255.255.0 172.153.0.1

exit

**ROUTER 1**

* **sh ip int br**
* **sh ip ro**

Text

Description automatically generated

**ROUTER 2**

* **sh ip int br**
* **sh ip ro**

Text

Description automatically generated

**ROUTER 3**

* **sh ip int br**
* **sh ip ro**

Text

Description automatically generated

**PINGS**

Graphical user interface

Description automatically generated with medium confidenceGraphical user interface, text

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