GRUPO 3

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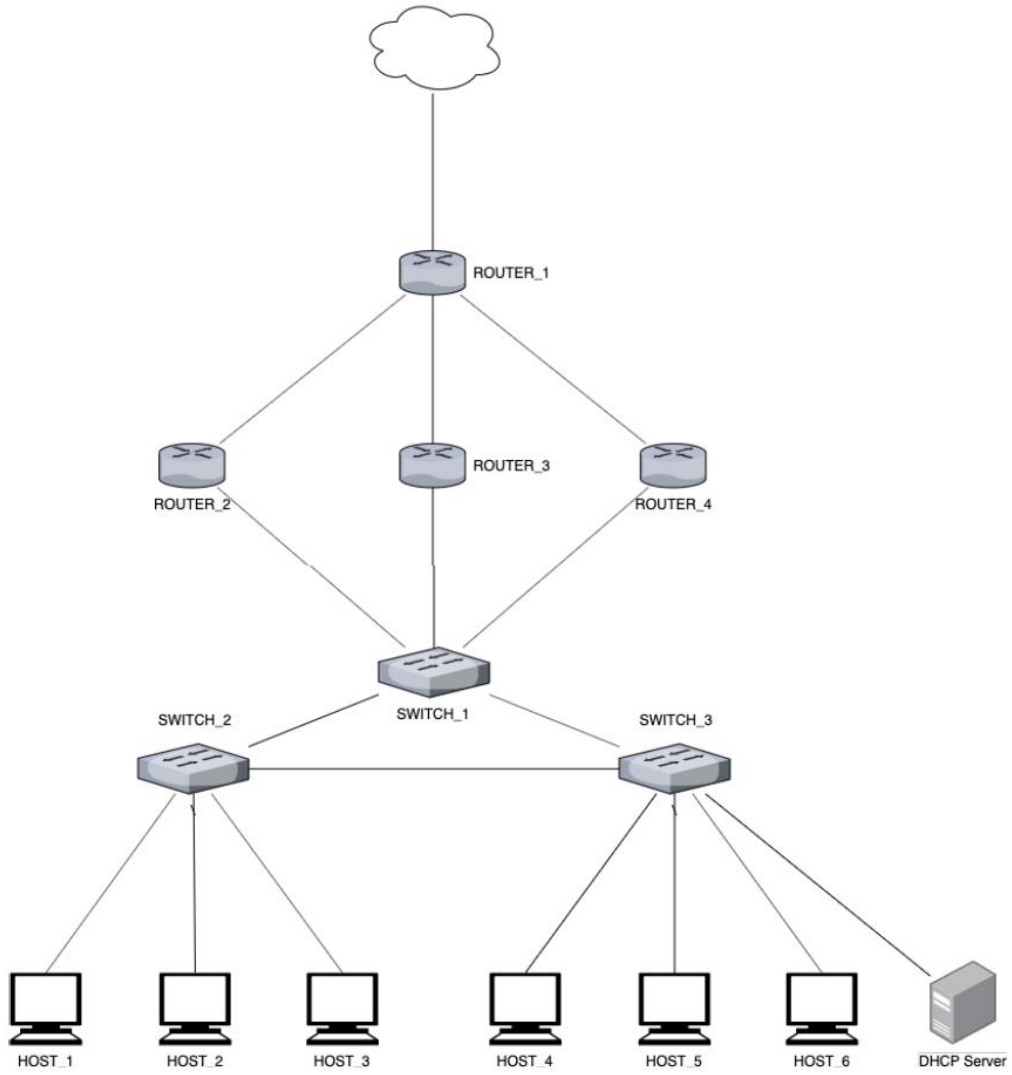

SUBNETEO **192.168.100.0 /24** (Clase C)

4 subredes

2^n = 4 → Ln(4)/Ln(2) = n → n = 2

Nueva Máscara:

BINARIO = 11111111.11111111.11111111.11000000

DECIMAL = 255.255.255.192

192.168.100.0/26

Salto = 256 – 192 → Salto = 64 hosts

subred	primera	ultima	broadcast
192.168.100.0/26	192.168.100.1	192.168.100.62	192.168.100.63
192.168.100.64/26	192.168.100.65	192.168.100.126	192.168.100.127
192.168.100.128/26	192.168.100.129	192.168.100.190	192.168.100.191
192.168.100.192/26	192.168.100.193	192.168.100.254	192.168.100.255

Configuracion de RIP

ROUTER 1

```
R6#conf
R6#configure ter
R6#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
R6(config)#router rip
R6(config-router)#version 2
R6(config-router)#network 192.168.100.0
R6(config-router)#exit
R6(config)#exit
R6#wr
*Mar  1 00:22:49.915: %SYS-5-CONFIG_I: Configured from console by console
R6#wr
Building configuration...
[OK]
R6#
```

ROUTR 2

```
R3#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

     192.168.100.0/26 is subnetted, 2 subnets
C       192.168.100.0 is directly connected, Serial1/2
C       192.168.100.64 is directly connected, FastEthernet0/1
R3#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
R3(config)#router rip
R3(config-router)#version 2
R3(config-router)#network 192.168.100.0
R3(config-router)#network 192.168.100.64
R3(config-router)#exit
R3(config)#exit
R3#wr
Building configuration...

*Mar  1 00:26:44.707: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up[OK]
R3#copy running-config startup-config
*Mar  1 00:26:45.959: %SYS-5-CONFIG_I: Configured from console by console
*Mar  1 00:26:49.175: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
R3#copy running-config startup-config
```

ROUTER 3

```
R4#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

     192.168.100.0/26 is subnetted, 2 subnets
C       192.168.100.0 is directly connected, Serial1/1
C       192.168.100.64 is directly connected, FastEthernet0/1
R4#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
R4(config)#router rip
R4(config-router)#version 2
R4(config-router)#network 192.168.100.0
R4(config-router)#network 192.168.100.64
R4(config-router)#exit
R4(config)#exit
R4#wr
Building configuration...
```

Configuracion para DHCP

Se realizo un subneteo para la red clase C 192.168.20.0, al utilizar 2 bits mas de red obtenemos la mascara 255.255.255.192, esto nos permite asignar la red 50 host requeridos.

SERVIDORDHCP

```
line aux 0
 exec-timeout 0 0
 privilege level 15
 logging synchronous
line vty 0 4
 login
!
!
end

SERVIDORDHCP# conf t
Enter configuration commands, one per line.  End with CNTL/Z.
SERVIDORDHCP(config)#int f0/1
SERVIDORDHCP(config-if)#ip address 192.168.20.1 255.255.255.192
SERVIDORDHCP(config-if)#no shutdown
SERVIDORDHCP(config-if)#exit
SERVIDORDHCP(config)#int fa0/1
SERVIDORDHCP(config-if)#ip dhcp pool REDES2GRUPO3
SERVIDORDHCP(dhcp-config)#network 192.168.20.0 255.255.255.192
SERVIDORDHCP(dhcp-config)#default-router 192.168.20.63
SERVIDORDHCP(dhcp-config)#end
SERVIDORDHCP#write
*Mar  1 00:07:51.203: %SYS-5-CONFIG_I: Configured from console by console
SERVIDORDHCP#write
```

CONFIGURACION DE LA NUBE PARA ACCESO A INTERNET

CONFIGURACION EN EL EQUIPO:

1. Irse a configuración de red e internet

2. Cambiar las opciones de adaptador

3. Dirigirse a la Adaptador con el que tengamos acceso a internet, ya sea el adaptador de Ethernet o Wi-Fi

4. En las propiedades del adaptador, irse a la pestaña de uso compartido (Sharing)

5. Habilitar la opción de Permitir que otros usuarios de otras redes se conecten a través de la conexión a Internet a este equipo (Allow other network users to connect through this computer's internet conection)

6. La lista de los adaptadores seleccionar el que vamos a utilizar en la Cloud en GNS3, en este caso

se eligió 'VMware Network Adapter VMnet8'