



Ingeniería en Sistemas Computacionales

Conmutación y enrutamiento de redes 14:00 – 15:00

Unidad 1

Evidencia 5: Práctica de sumarización

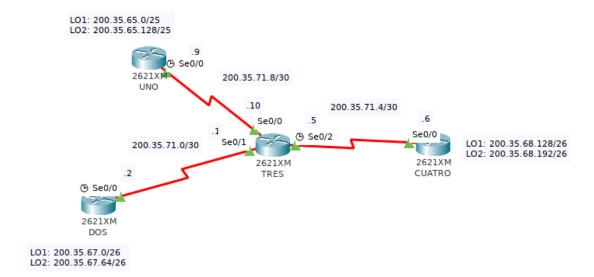
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Alumno: Escobar Sánchez José Alejandro

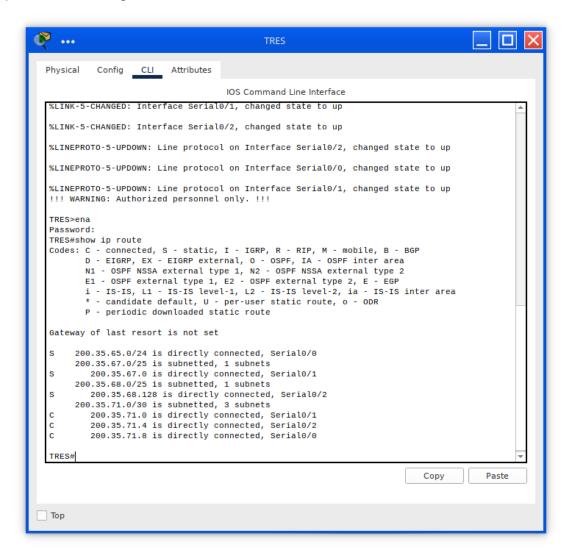
Control: 19170573

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Captura de topología de red



Captura de la configuración de enrutamiento del router TRES



Script de configuración y ejercicio de sumarización de rutas

EJERCICIO DE SUMARIZACION DE RUTAS

Router UNO 200.35.65.0/25 200.35.65.128/25 200.35.65.00000000 200.35.65.10000000 Nueva mascara de red 11111111.11111111.11111111.00000000 /24 Super red 1: 200.35.65.0/24 Router DOS 200.35.67.0/26 200.35.67.64/26 200.35.67.00000000 200.35.67.01000000 Nueva mascara de red 11111111.11111111.11111111.10000000 /25 Super red 2: 200.35.67.0/25 Router CUATRO 200.35.68.128/26 200.35.68.192/26 200.35.68.10000000 200.35.68.11000000 Nueva mascara de red 1111111.11111111.11111111.10000000 /25 Super red 3: 200.35.68.128/25 ## SCRIPT DE CONFIGURACION

config router UNO
enable
configure terminal
hostname UNO
no ip domain-lookup
enable secret cisco

```
line console 0
login
line vty 0 15
password cisco
login
banner motd #!!! WARNING: Authorized personnel only. !!!#
interface Se0/0
description Enlace al router TRES
ip address 200.35.71.9 255.255.255.252
clock rate 128000
no shut
interface LO1
ip address 200.35.65.1 255.255.255.128
interface LO2
ip address 200.35.65.129 255.255.255.128
exit
ip route 0.0.0.0 0.0.0.0 Se0/0
# config router DOS
enable
configure terminal
hostname DOS
no ip domain-lookup
enable secret cisco
line console 0
login
line vty 0 15
password cisco
login
banner motd #!!! WARNING: Authorized personnel only. !!!#
interface Se0/0
description Enlace al router TRES
ip address 200.35.71.2 255.255.255.252
clock rate 128000
no shut
interface LO1
ip address 200.35.67.1 255.255.255.192
interface LO2
ip address 200.35.67.65 255.255.255.192
exit
ip route 0.0.0.0 0.0.0.0 Se0/0
# config router CUATRO
enable
configure terminal
hostname CUATRO
no ip domain-lookup
enable secret cisco
line console 0
login
line vty 0 15
```

```
password cisco
login
banner motd #!!! WARNING: Authorized personnel only. !!!#
interface Se0/0
description Enlace al router TRES
ip address 200.35.71.6 255.255.255.252
no shut
interface LO1
ip address 200.35.68.129 255.255.255.192
interface LO2
ip address 200.35.68.193 255.255.255.192
exit
ip route 0.0.0.0 0.0.0.0 Se0/0
# config router TRES
enable
configure terminal
hostname TRES
no ip domain-lookup
enable secret cisco
line console 0
login
line vty 0 15
password cisco
login
banner motd #!!! WARNING: Authorized personnel only. !!!#
interface Se0/0
description Enlace al router UNO
ip address 200.35.71.10 255.255.255.252
no shut
interface Se0/1
description Enlace al router DOS
ip address 200.35.71.1 255.255.255.252
no shut
interface Se0/2
description Enlace al router CUATRO
ip address 200.35.71.5 255.255.255.252
no shut
exit
ip route 200.35.65.0 255.255.255.0 Se0/0
ip route 200.35.67.0 255.255.255.128 Se0/1
ip route 200.35.68.128 255.255.255.128 Se0/2
```

Captura de la práctica en laboratorio

```
a - application route
+ - replicated route, % - next hop override, p - overrides from PFR

Gateway of last resort is not set

192.168.1.0/30 is subnetted, 1 subnets
192.168.30.0/24 is variably subnetted, 2 subnets, 2 masks
192.168.30.0/30 is directly connected, GigabitEthernet0/0
192.168.30.0/30 is directly connected, GigabitEthernet0/0
192.168.30.2/32 is directly connected, GigabitEthernet0/0
200.35.65.0/24 is directly connected, Serial0/1/1
200.35.67.0/25 is subnetted, 1 subnets
200.35.67.0/25 is subnetted, 1 subnets
200.35.71.0/34 is variably subnetted, 4 subnets, 2 masks
200.35.71.0/30 is directly connected, Serial0/1/0
200.35.71.10/32 is directly connected, Serial0/1/0
200.35.71.1/32 is directly connected, Serial0/1/1
Router(config)#
Router(config)#
Router(config)#
*Sep 29 19:57:17.579: %LINK-3-UPDOWN: Interface Serial0/1/0, changed state to down

*Sep 29 19:57:17.579: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/1
0, changed state to down
```