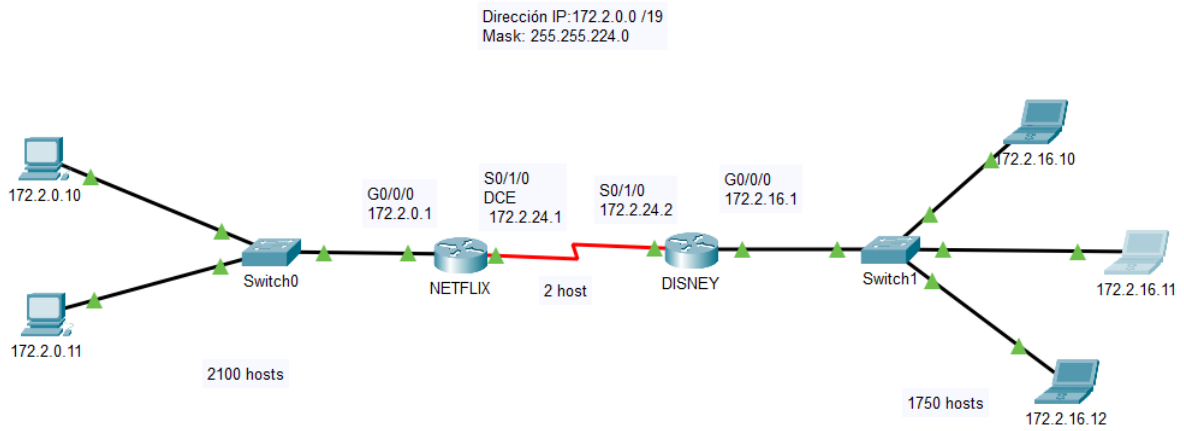
Tecnológico de Monterrey

Configuración básica y OSPF

Emilio Sibaja Villarreal A01025139

10 de junio del 2022

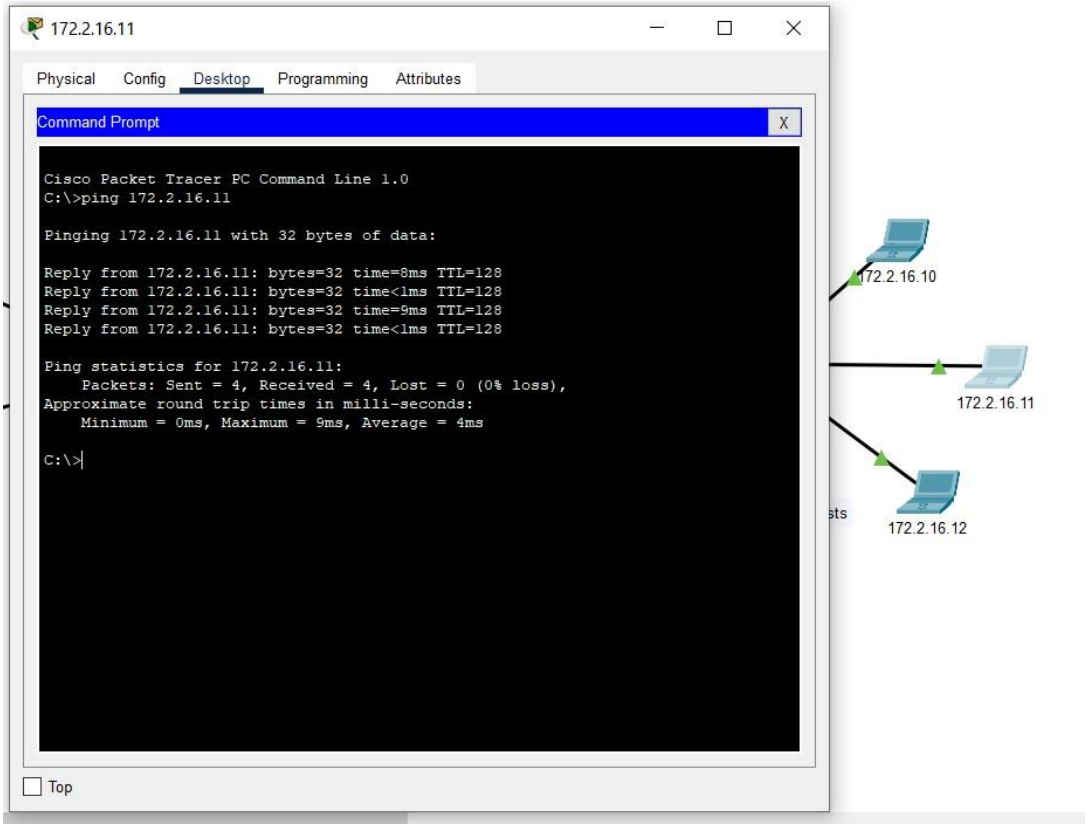
Interconexión de dispositivos (Gpo 300)



IP: 172.2.0.0/19
Mask: 255.255.224.0

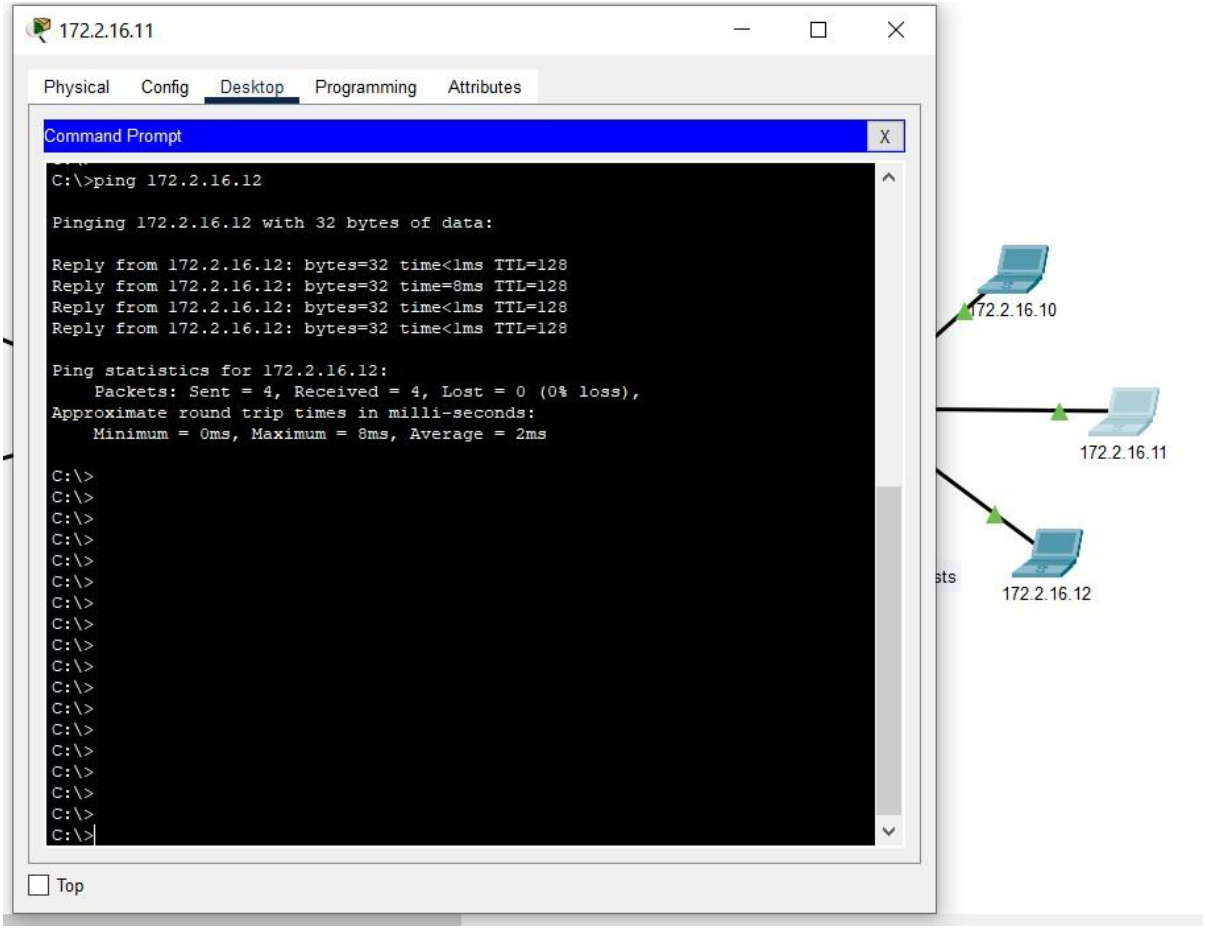
#Hosts	IP Segmento	Mask/CIDR	Máscara en decimal	Rango Utilizable	IP Difusión	Wildcard
2100	172.2.0.0	20	255.255.240.0	172.2.0.1 - 172.2.15.254	172.2.15.255	0.0.15.255
1750	172.2.16.0	21	255.255.248.0	172.2.16.1 - 172.2.23.254	172.2.23.255	0.0.7.255
2	172.2.24.0	30	255.255.255.252	172.2.24.1 - 172.2.24.2	172.2.24.3	0.0.0.3

Verificación de la conectividad

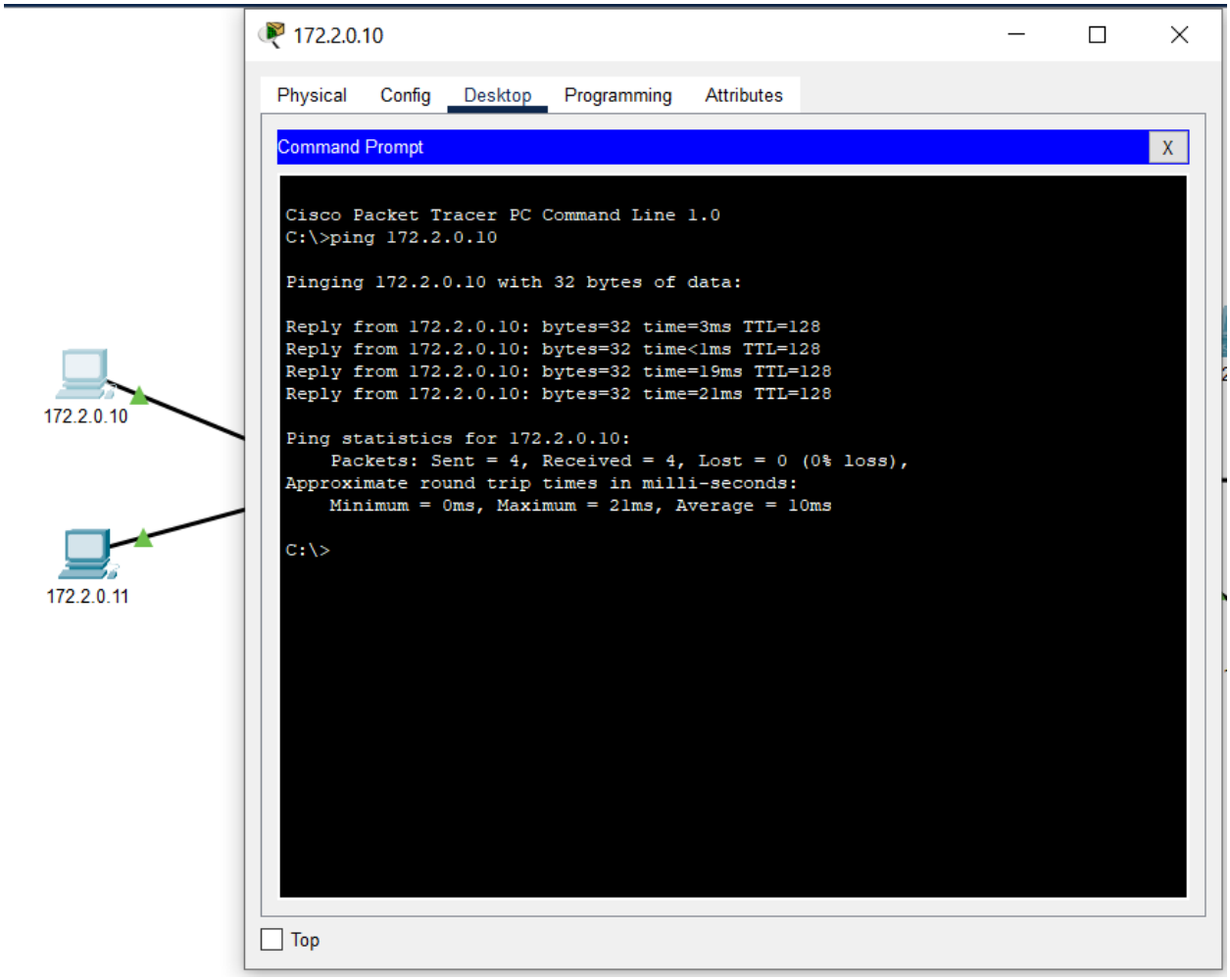


Ping a la misma computadora

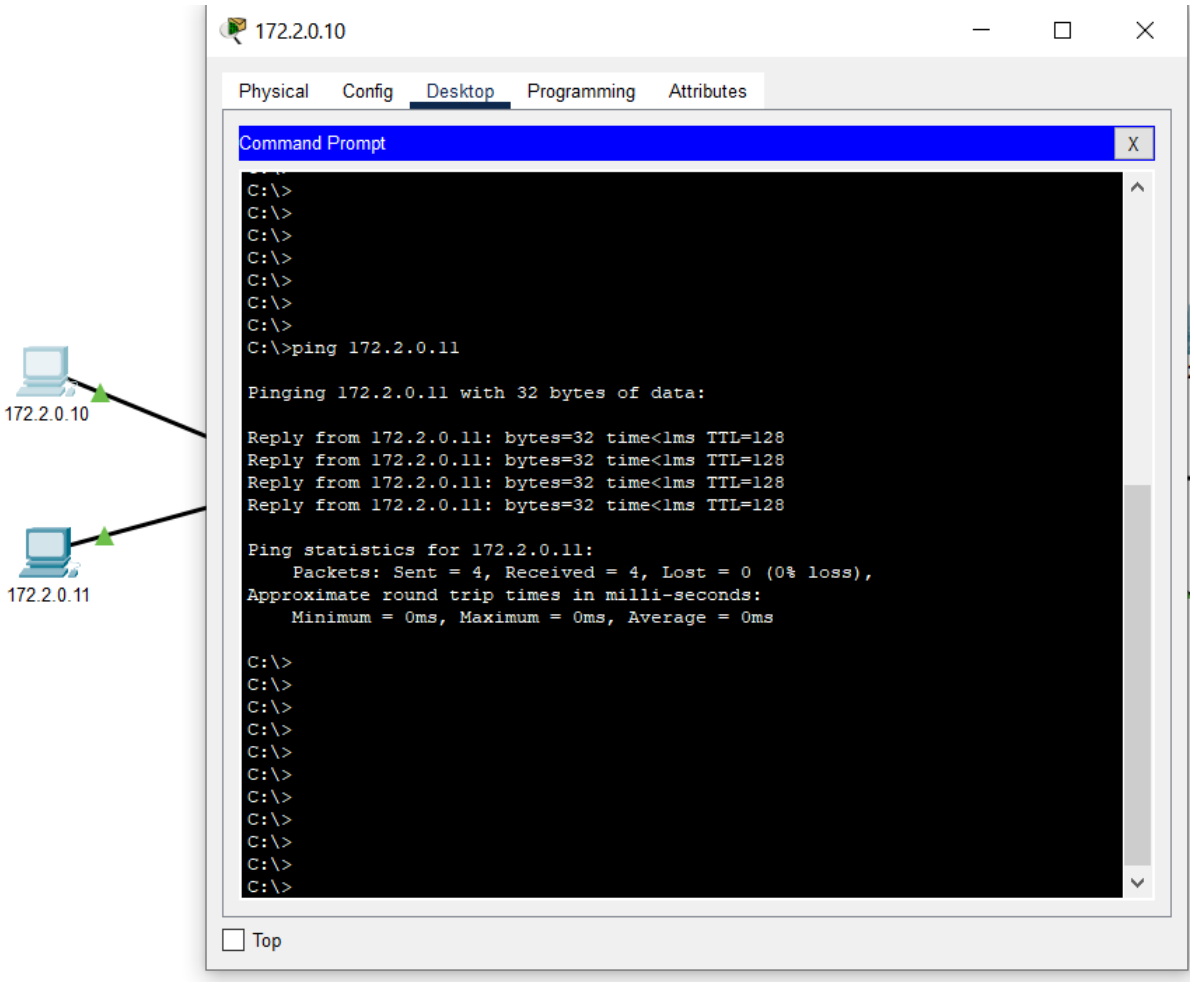
Ping de la computadora 172.2.16.11 a la 172.2.16.12



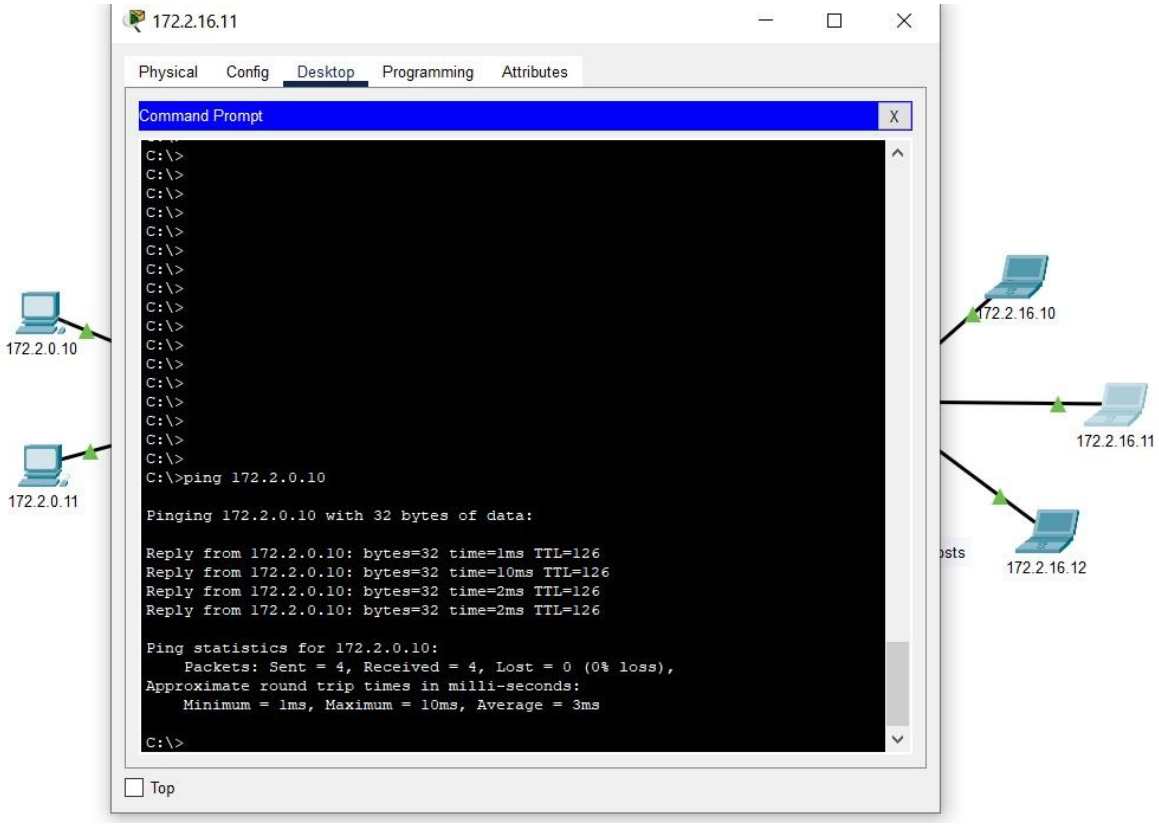
Ping a la misma computadora



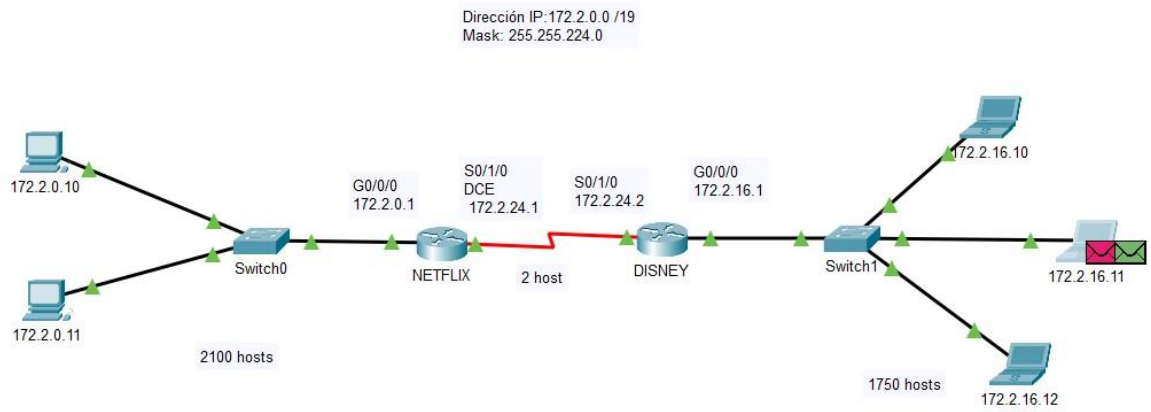
Ping de la computadora 172.2.0.10 a la 172.2.0.11

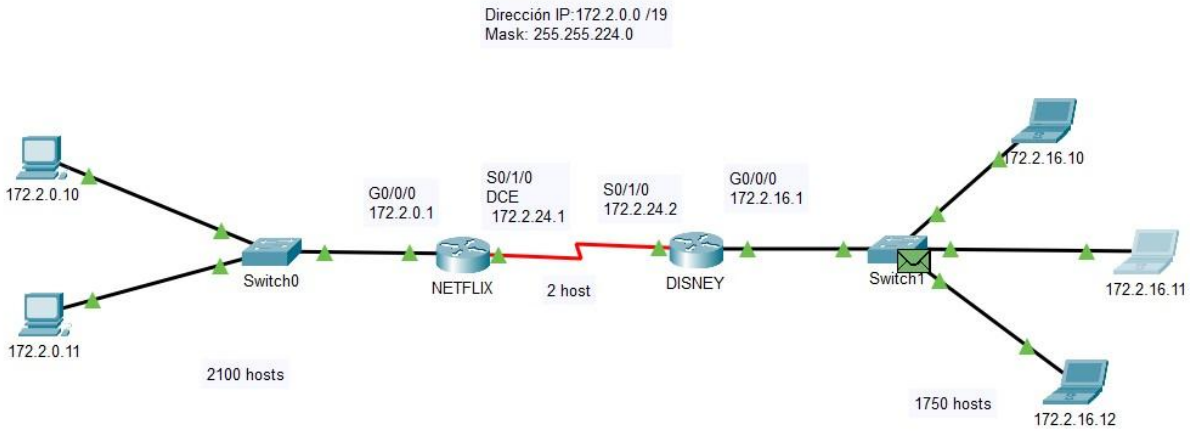


Conectividad de extremo a extremo (172.2.16.11 a 172.2.0.10)

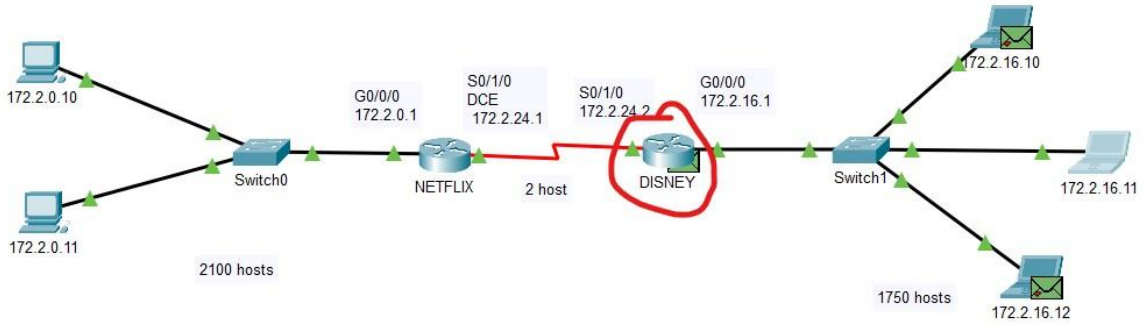


Verificación de la ruta

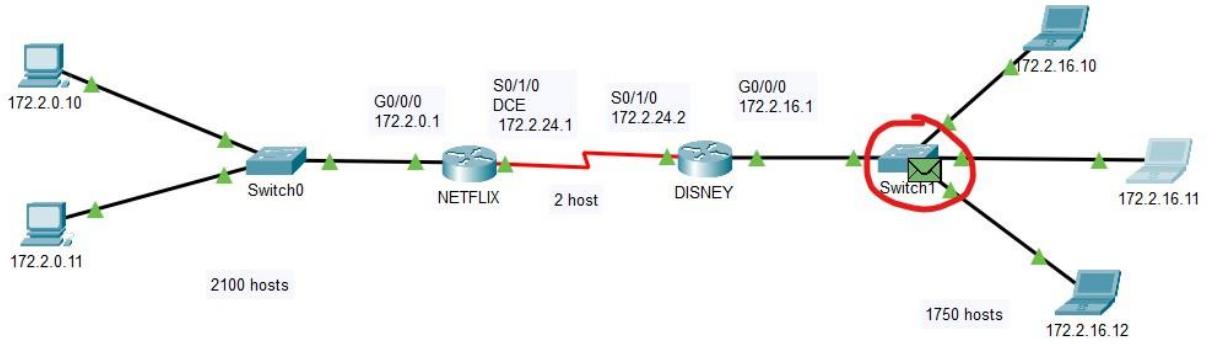




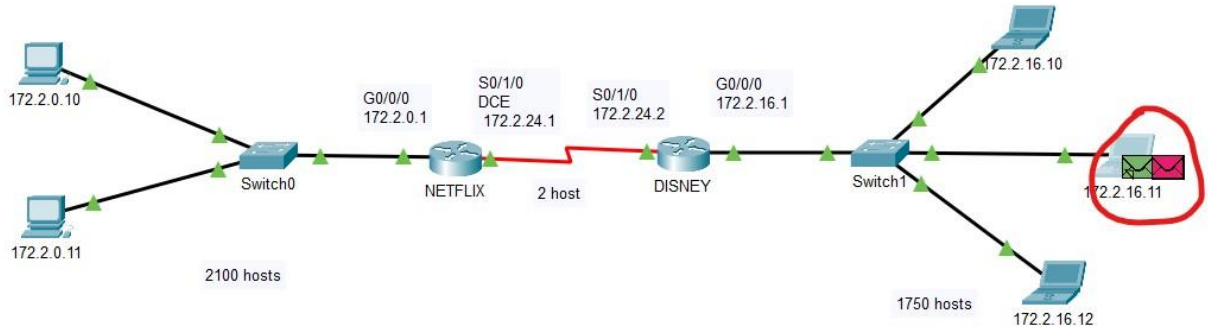
Dirección IP:172.2.0.0 /19
Mask: 255.255.224.0



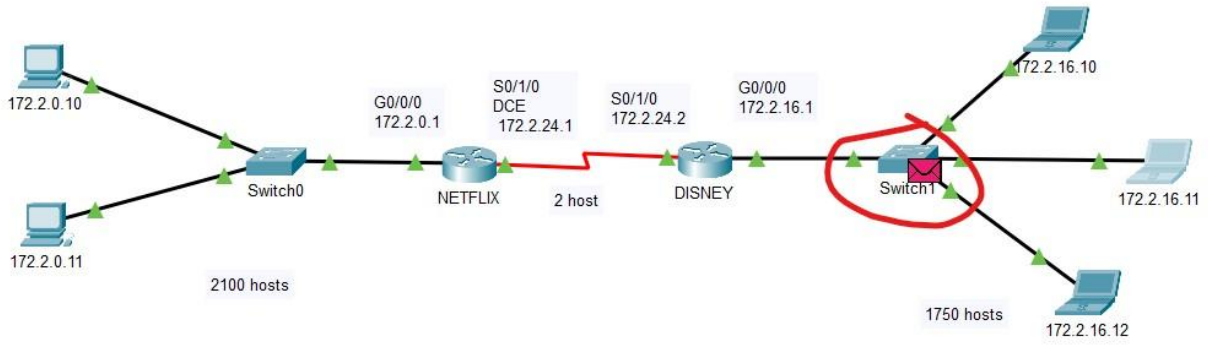
Dirección IP:172.2.0.0 /19
Mask: 255.255.224.0



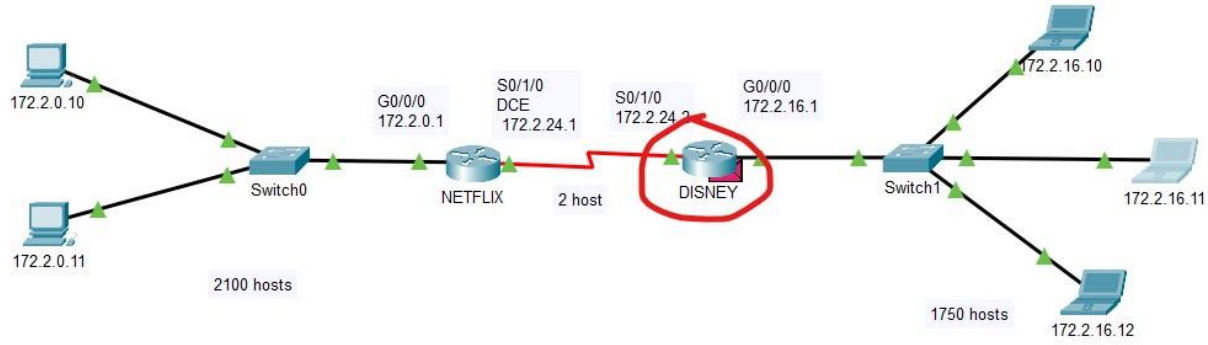
Dirección IP:172.2.0.0 /19
Mask: 255.255.224.0



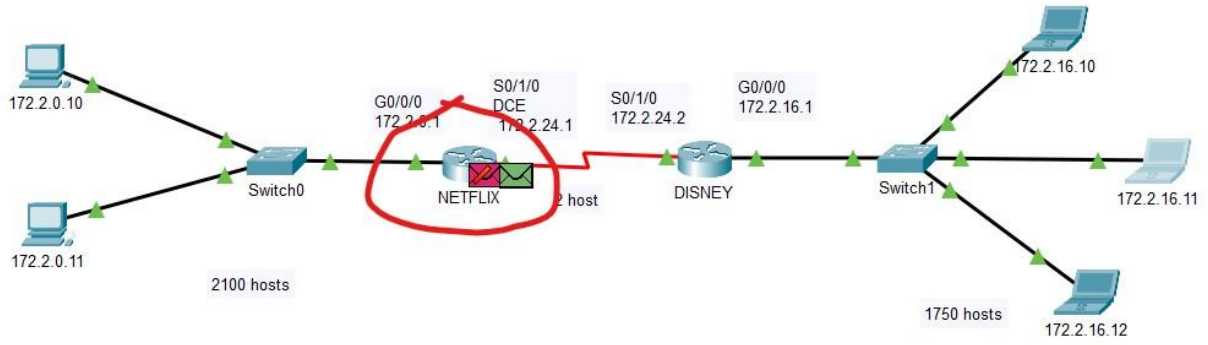
Dirección IP:172.2.0.0 /19
Mask: 255.255.224.0

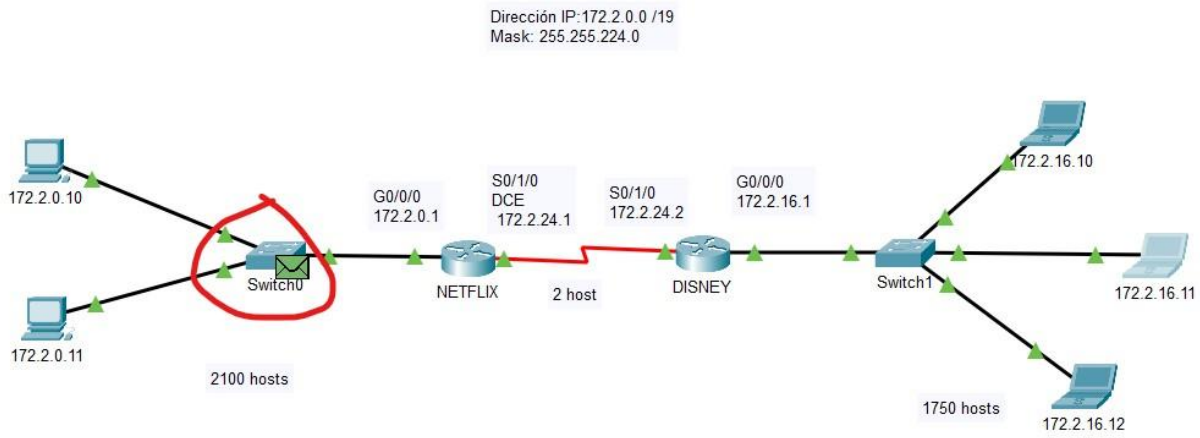


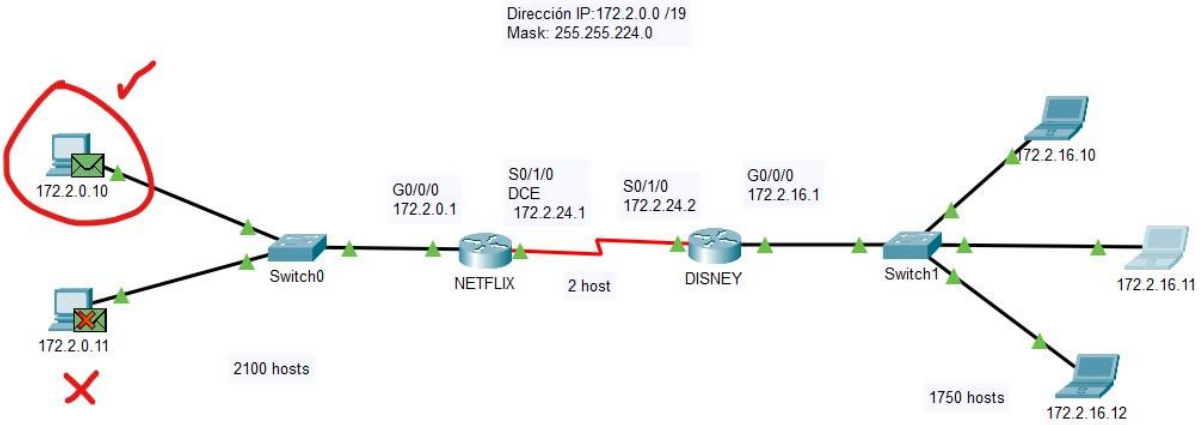
Dirección IP:172.2.0.0 /19
Mask: 255.255.224.0



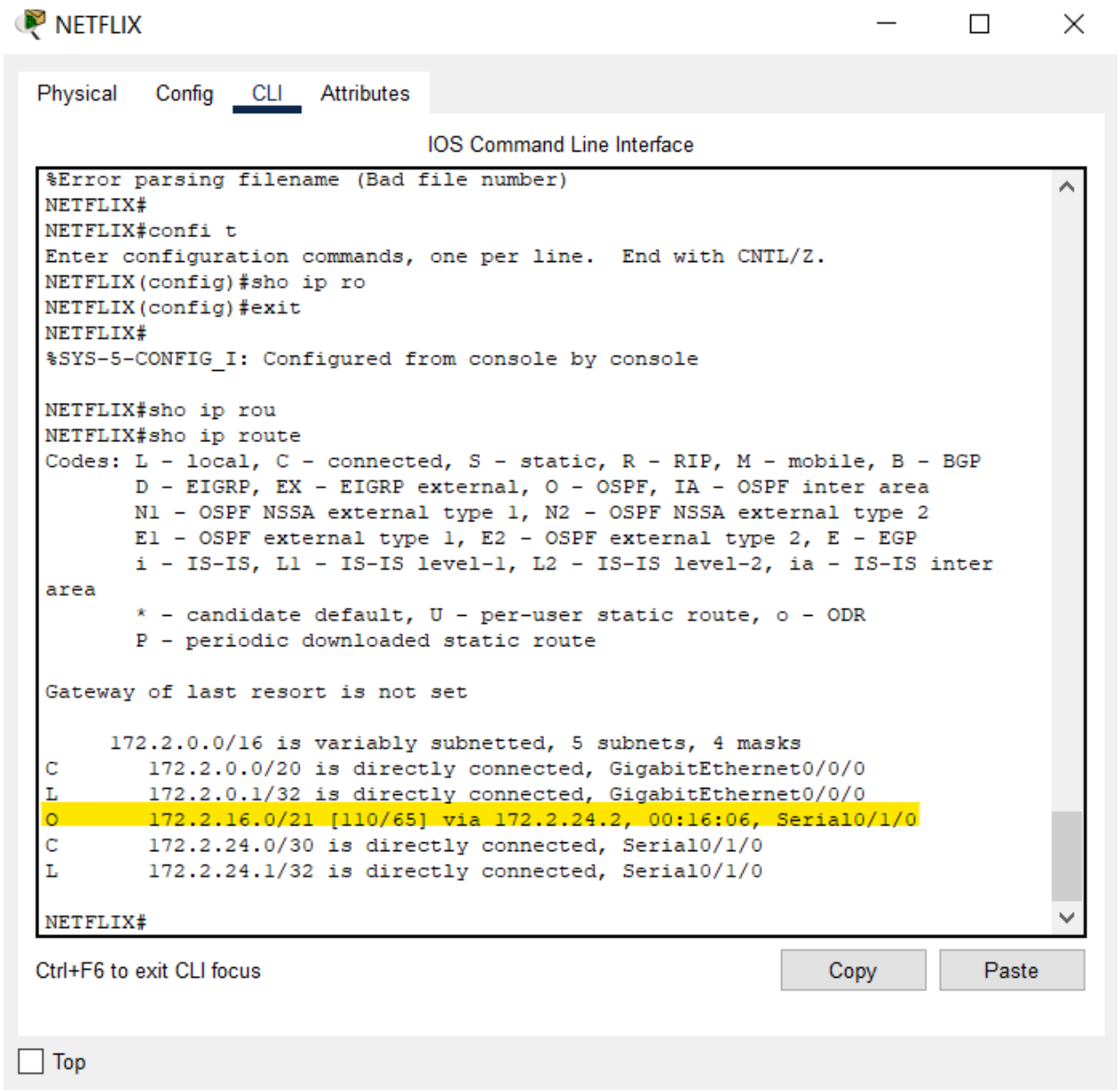
Dirección IP:172.2.0.0 /19
Mask: 255.255.224.0




Dirección IP:172.2.0.0 /19
Mask: 255.255.224.0
172.2.0.10
172.2.0.11
Switch0
G0/0/0
172.2.0.1
S0/1/0
DCE
172.2.24.1
NETFLIX
2 host
S0/1/0
172.2.24.2
DISNEY
G0/0/0
172.2.16.1
Switch1
172.2.16.10
172.2.16.11
172.2.16.12
2100 hosts
1750 hosts


Dirección IP:172.2.0.0 /19
Mask: 255.255.224.0
172.2.0.10
172.2.0.11
Switch0
G0/0/0
172.2.0.1
S0/1/0
DCE
172.2.24.1
NETFLIX
2 host
S0/1/0
172.2.24.2
DISNEY
G0/0/0
172.2.16.1
Switch1
172.2.16.10
172.2.16.11
172.2.16.12
2100 hosts
1750 hosts

Verificación de la tabla de enrutamiento



DISNEY

Physical Config CLI Attributes

IOS Command Line Interface

```
end


DISNEY#
?Bad filename
%Error parsing filename (Bad file number)
DISNEY#
?Bad filename
%Error parsing filename (Bad file number)
DISNEY#sho ip rou
DISNEY#sho ip route
Codes: L - local, 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, E - EGP
       i - IS-IS, 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

     172.2.0.0/16 is variably subnetted, 5 subnets, 4 masks
O       172.2.0.0/20 [110/65] via 172.2.24.1, 00:19:13, Serial0/1/0
C       172.2.16.0/21 is directly connected, GigabitEthernet0/0/0
L       172.2.16.1/32 is directly connected, GigabitEthernet0/0/0
C       172.2.24.0/30 is directly connected, Serial0/1/0
L       172.2.24.2/32 is directly connected, Serial0/1/0

DISNEY#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Archivo de configuración (NETFLIX)

```
!
version 15.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname NETFLIX
!
!
!
!
!
!
!
!
no ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
no ip domain-lookup
!
!
spanning-tree mode pvst
!
!
!
!
!
!
interface GigabitEthernet0/0/0
```

```
 description Conexion de NETFLIX a 2100 hosts
 ip address 172.2.0.1 255.255.240.0
 duplex auto
 speed auto
!
interface GigabitEthernet0/0/1
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface GigabitEthernet0/0/2
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface Serial0/1/0
 description Conexion Serial al router DISNEY
 ip address 172.2.24.1 255.255.255.252
 clock rate 128000
!
interface Serial0/1/1
 no ip address
 clock rate 2000000
 shutdown
!
interface Vlan1
 no ip address
 shutdown
!
router ospf 10
 log-adjacency-changes
 network 172.2.0.0 0.0.15.255 area 0
 network 172.2.24.0 0.0.0.3 area 0
!
ip classless
!
ip flow-export version 9
!
```

```
!
!
!
!
!
!
!
line con 0
 logging synchronous
!
line aux 0
!
line vty 0 4
 login
!
!
!
end
```