

10.0.0.0 /17

11111111.11111111.10000000.00000000 = 255.255.128.0

$$24 - 17 = 7$$

$$2^7 = 128$$

$$\text{Saltos} = 256 - 128 = 128$$

	DIRECCIÓN DE RED	1er DIRECCIÓN UTILIZABLE	ÚLTIMA DIRECCIÓN UTILIZABLE	DIRECCIÓN DE DIFUSIÓN	MÁSCARA
0	10.0.128.0	10.0.128.1	10.0.255.254	10.0.255.255	255.255.128.0
1	10.1.0.0	10.1.0.1	10.1.127.254	10.1.127.255	255.255.128.0
2	10.1.128.0	10.1.128.1	10.1.255.254	10.1.255.255	255.255.128.0
3	10.2.0.0	10.2.0.1	10.2.127.254	10.2.127.255	255.255.128.0
4	10.2.128.0	10.2.128.1	10.2.255.254	10.2.255.255	255.255.128.0
5	10.3.0.0	10.3.0.1	10.3.127.254	10.3.127.255	255.255.128.0

140.2.0.0 /25

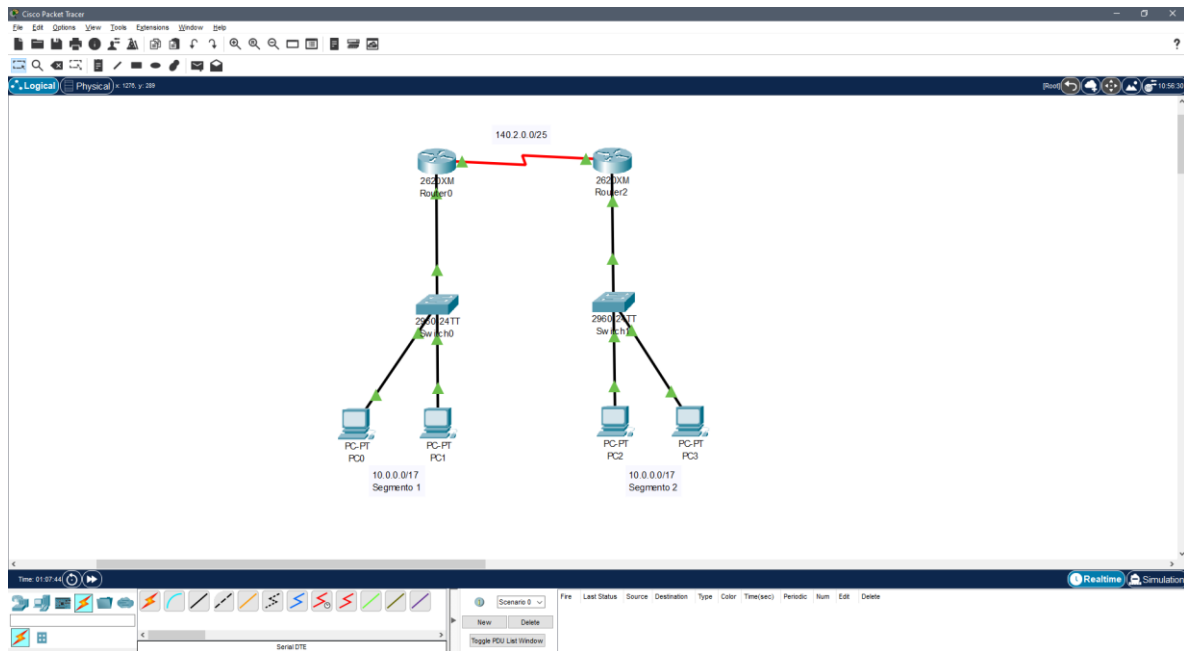
11111111.11111111.11111111.10000000 = 255.255.255.128

$$32 - 25 = 7$$

$$2^7 = 128$$

$$\text{Saltos} = 256 - 128 = 128$$

	DIRECCIÓN DE RED	1er DIRECCIÓN UTILIZABLE	ÚLTIMA DIRECCIÓN UTILIZABLE	DIRECCIÓN DE DIFUSIÓN	MÁSCARA
0	140.2.0.128	140.2.0.129	140.2.0.254	140.2.0.255	255.255.255.128
1	140.2.1.0	140.2.1.1	140.2.1.127	140.2.1.128	255.255.255.128
2	140.2.1.128	140.2.1.129	140.2.1.254	140.2.1.255	255.255.255.128
3	140.2.2.0	140.2.2.1	140.2.2.127	140.2.2.128	255.255.255.128
4	140.2.2.128	140.2.2.129	140.2.2.254	140.2.2.255	255.255.255.128
5	140.2.3.0	140.2.3.1	140.2.3.127	140.2.3.128	255.255.255.128



PC0

Physical

Config

Desktop

Programming

Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status

☒ On

Bandwidth

☒ 100 Mbps

☐ 10 Mbps

☒ Auto

Duplex

☐ Half Duplex

☒ Full Duplex

☒ Auto

MAC Address

0060.3E3C.1E6C

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

10.0.128.2

Subnet Mask

255.255.128.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address

FE80::260:3EFF:FE3C:1E6C

☐ Top

PC1

Physical

Config

Desktop

Programming

Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status

☒ On

Bandwidth

☒ 100 Mbps

☐ 10 Mbps

☒ Auto

Duplex

☐ Half Duplex

☒ Full Duplex

☒ Auto

MAC Address

000A.F374.05D5

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

10.0.128.3

Subnet Mask

255.255.128.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address

FE80::20A:F3FF:FE74:5D5

☐ Top

PC2

Physical

Config

Desktop

Programming

Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status

☒ On

Bandwidth

☒ 100 Mbps

☐ 10 Mbps

Duplex

☐ Half Duplex

☒ Full Duplex

MAC Address

00D0.58D2.A660

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

10.1.0.2

Subnet Mask

255.255.128.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address

FE80::2D0:58FF:FED2:A660

☐ Top

PC3

Physical

Config

Desktop

Programming

Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status

☒ On

Bandwidth

☒ 100 Mbps

☐ 10 Mbps

☒ Auto

Duplex

☐ Half Duplex

☒ Full Duplex

☒ Auto

MAC Address

00E0.F9D9.71D7

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

10.1.0.3

Subnet Mask

255.255.128.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address

FE80::2E0:F9FF:FED9:71D7

☐ Top

Router2

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Router(config-line)#exit
Router(config)#line vty 0 4
Router(config-line)#password cisco
Router(config-line)#login
Router(config-line)#exit
Router(config)#enable secret cisco
Router(config)#interface serial 0/1
Router(config-if)#ip address 140.2.0.130 255.255.255.128
Router(config-if)#exit
Router(config)#interface fastethernet 0/0
Router(config-if)#ip address 10.1.0.1 255.255.128.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
exit
Router(config)#interface serial 0/1
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1, changed state to up
exit
Router(config)#route
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1, changed state to up
Router(config)#router eigrp 1
Router(config-router)#network 140.2.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 140.2.0.129 (Serial0/1) is up: new adjacency
network 10.0.0.0
Router(config-router)#no auto-summary
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 140.2.0.129 (Serial0/1) resync: summary
configured
```

Ctrl+F6 to exit CLI focus

Copy

Paste

☐ Top

Router0

Physical

Config

CLI

Attributes

IOS Command Line Interface

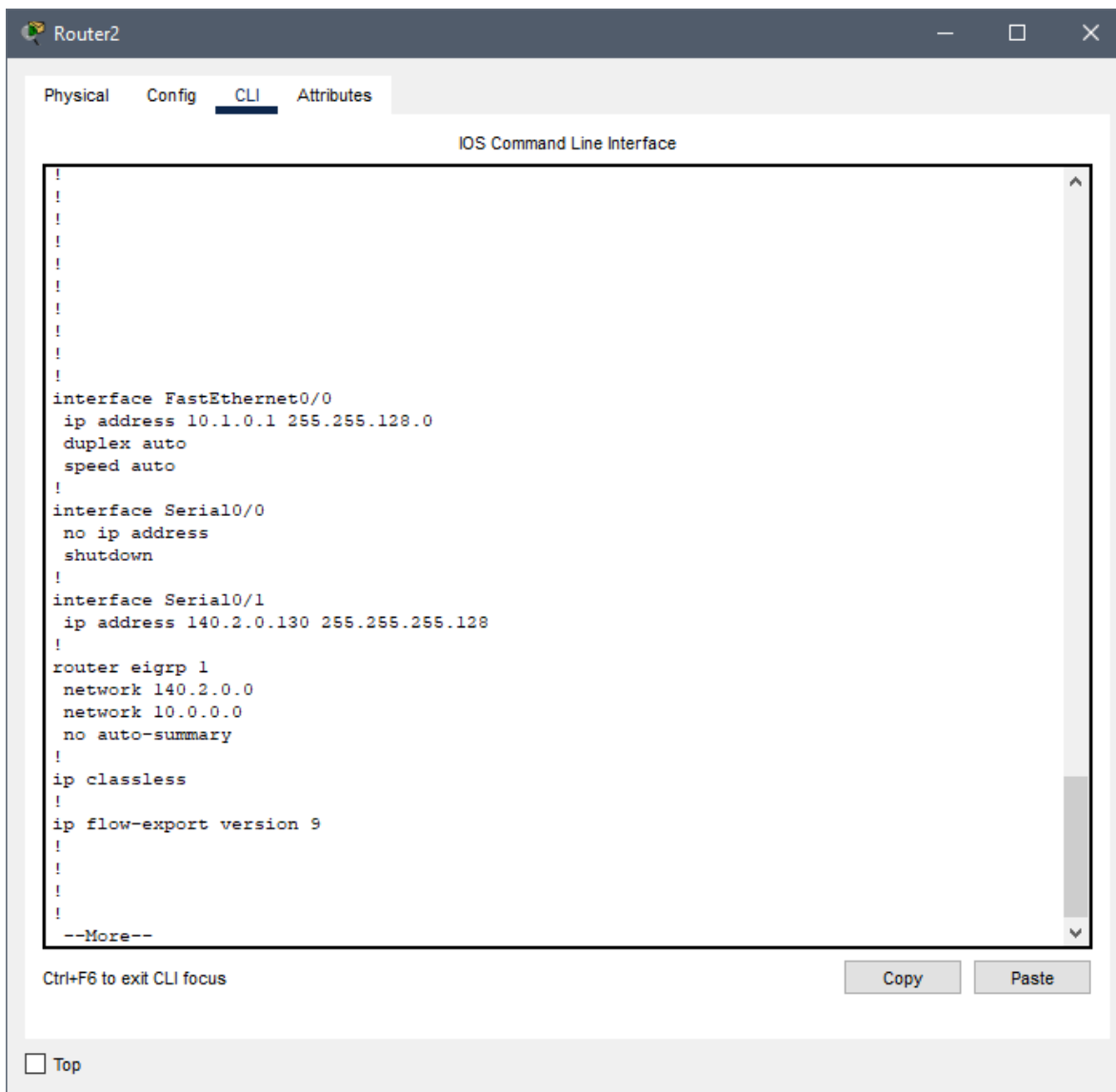
```
!  
!  
!  
!  
!  
!  
!  
!  
interface FastEthernet0/0  
  ip address 10.0.128.1 255.255.128.0  
  duplex auto  
  speed auto  
!  
interface Serial0/0  
  ip address 140.2.0.129 255.255.255.128  
  clock rate 64000  
!  
interface Serial0/1  
  no ip address  
  shutdown  
!  
router eigrp 1  
  network 140.2.0.0  
  network 10.0.0.0  
  no auto-summary  
!  
ip classless  
!  
ip flow-export version 9  
!  
!  
!  
!  
!
```

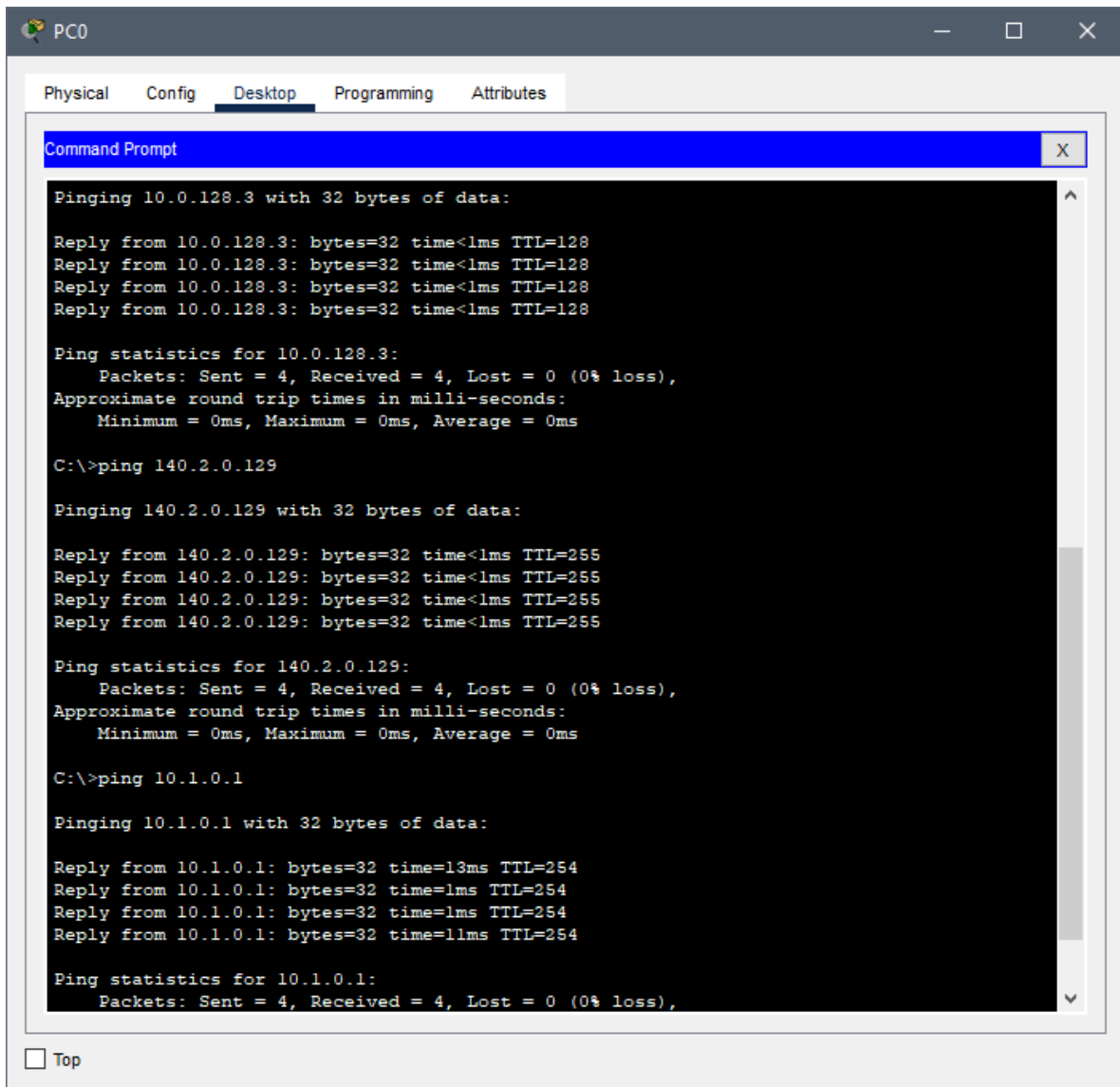
Ctrl+F6 to exit CLI focus

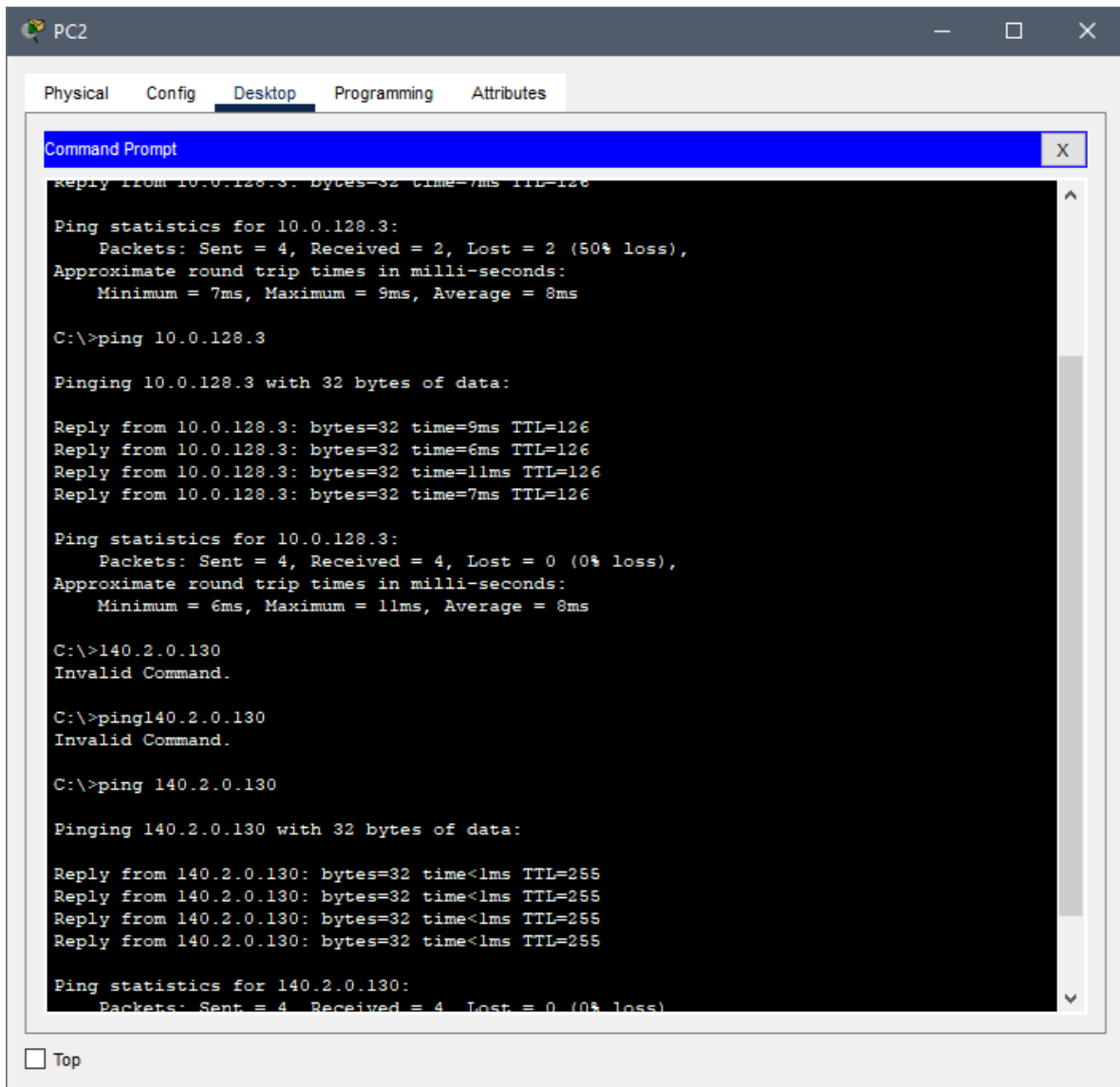
Copy

Paste

☐ Top







Mascara de WildCard

140.2.0.129: 255.255.255.255 - 255.255.255.128 = WildCard 0.0.0.127

10.0.128.3: 255.255.255.255 - 255.255.128.0 = WildCard 0.0.127.255

Routers con la mascara de WildCard

