

Ruteo Estático

| ESPECIFICACIÓN |
|--|
| Dirección IP de la subred: 168.168.3.0 |
| Máscara de subred: 255.255.255.128 |
| Cantidad de host utilizables por la subred: 128 |
| Primera dirección del host: 168.168.3.1 |
| Última dirección de host: 168.168.3.126 |

| ESPECIFICACIÓN |
|--|
| Dirección IP de la subred: 172.154.3.0 |
| Máscara de subred: 255.255.255.128 |
| Cantidad de host utilizables por la subred: 128 |
| Primera dirección del host: 172.154.3.1 |
| Última dirección de host: 172.154.3.126 |

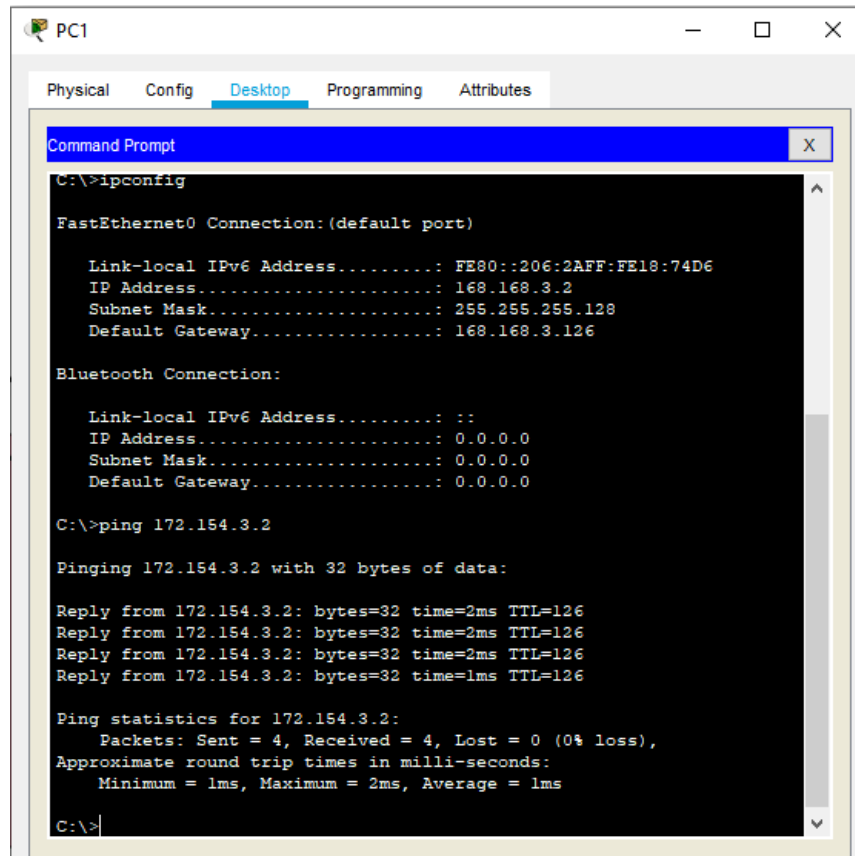
| ESPECIFICACIÓN |
|---|
| Dirección IP de la subred: 168.168.3.128 |
| Máscara de subred: 255.255.255.192 |
| Cantidad de host utilizables por la subred: 64 |
| Primera dirección del host: 168.168.3.129 |
| Última dirección de host: 168.168.3.190 |

| ESPECIFICACIÓN |
|---|
| Dirección IP de la subred: 172.154.3.128 |
| Máscara de subred: 255.255.255.224 |
| Cantidad de host utilizables por la subred: 32 |
| Primera dirección del host: 172.154.3.129 |
| Última dirección de host: 172.154.3.158 |

| Dispositivo | Interfaz | Dirección IP | Máscara de Subred | Gateway por defecto |
|-------------|----------|---------------|-------------------|---------------------|
| PC0 | NIC | 168.168.3.1 | 255.255.255.128 | 168.168.3.126 |
| PC1 | NIC | 168.168.3.2 | 255.255.255.128 | 168.168.3.126 |
| PC2 | NIC | 168.168.3.3 | 255.255.255.128 | 168.168.3.126 |
| PC3 | NIC | 168.168.3.129 | 255.255.255.192 | 168.168.3.190 |
| PC4 | NIC | 168.168.3.130 | 255.255.255.192 | 168.168.3.190 |
| PC5 | NIC | 168.168.3.131 | 255.255.255.192 | 168.168.3.190 |
| PC6 | NIC | 172.154.3.1 | 255.255.255.128 | 172.154.3.126 |
| PC7 | NIC | 172.154.3.2 | 255.255.255.128 | 172.154.3.126 |
| PC8 | NIC | 172.154.3.3 | 255.255.255.128 | 172.154.3.126 |
| PC9 | NIC | 172.154.3.129 | 255.255.255.224 | 172.154.3.158 |
| PC10 | NIC | 172.154.3.130 | 255.255.255.224 | 172.154.3.158 |
| PC11 | NIC | 172.154.3.131 | 255.255.255.224 | 172.154.3.158 |
| R1 | Fa0/0 | 168.168.3.126 | 255.255.255.128 | — |
| | Fa0/1 | 168.168.3.190 | 255.255.255.192 | — |
| | Se0/1/0 | 1.2.3.1 | 255.255.255.252 | — |
| R2 | Fa0/0 | 172.154.3.126 | 255.255.255.128 | — |
| | Fa0/1 | 172.154.3.158 | 255.255.255.224 | — |
| | Se0/1/0 | 1.2.3.2 | 255.255.255.252 | — |

Tabla de ruteo para cada uno de los ruteadores:

| Origen | Máscara | Dirección de red | Dirección de Próximo Salto | Interfaz de salida |
|--------|-----------------|------------------|----------------------------|--------------------|
| R1 | 255.255.255.252 | 1.2.3.0 | NA | Se0/1/0 |
| | 255.255.255.128 | 168.168.3.0 | NA | Fa0/0 |
| | 255.255.255.192 | 168.168.3.128 | NA | Fa0/1 |
| | 255.255.255.128 | 172.154.3.0 | 1.2.3.2 | Se0/1/0 |
| | 255.255.255.224 | 172.154.3.128 | 1.2.3.2 | Se0/1/0 |
| R2 | 255.255.255.252 | 1.2.3.0 | NA | Se0/1/0 |
| | 255.255.255.128 | 172.154.3.0 | NA | Fa0/0 |
| | 255.255.255.224 | 172.154.3.128 | NA | Fa0/1 |
| | 255.255.255.128 | 168.168.3.0 | 1.2.3.1 | Se0/1/0 |
| | 255.255.255.192 | 168.168.3.128 | 1.2.3.1 | Se0/1/0 |



PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Link-local IPv6 Address . . . . . : FE80::206:2AFF:FE18:74D6
    IP Address. . . . . : 168.168.3.2
    Subnet Mask . . . . . : 255.255.255.128
    Default Gateway . . . . . : 168.168.3.126

Bluetooth Connection:

    Link-local IPv6 Address . . . . . : ::
    IP Address. . . . . : 0.0.0.0
    Subnet Mask . . . . . : 0.0.0.0
    Default Gateway . . . . . : 0.0.0.0

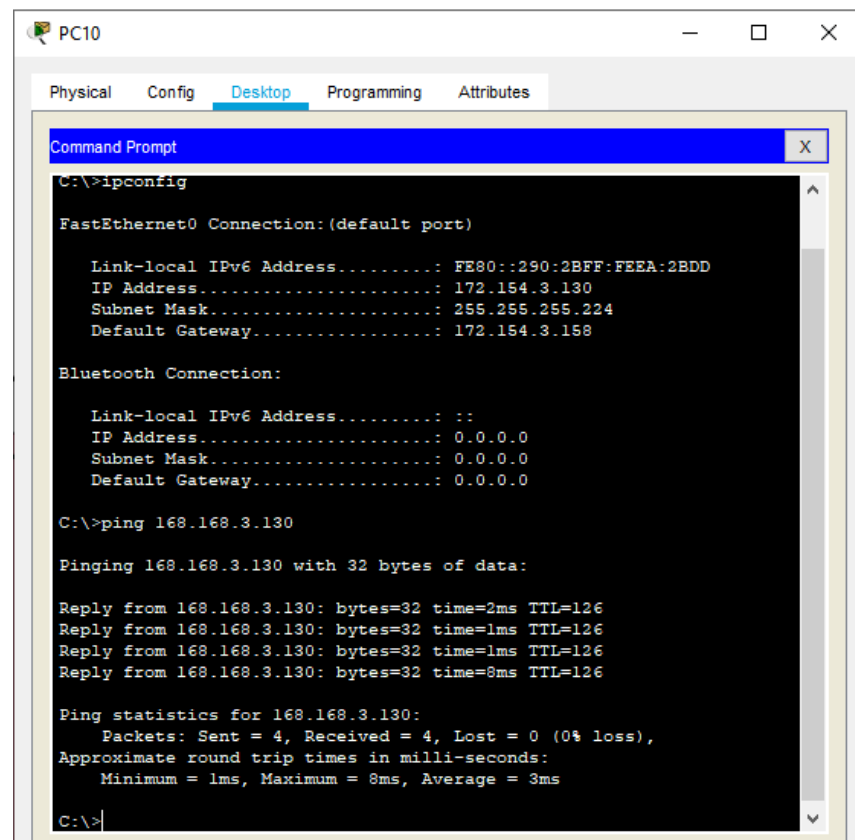
C:\>ping 172.154.3.2

Pinging 172.154.3.2 with 32 bytes of data:

Reply from 172.154.3.2: bytes=32 time=2ms TTL=126
Reply from 172.154.3.2: bytes=32 time=2ms TTL=126
Reply from 172.154.3.2: bytes=32 time=2ms TTL=126
Reply from 172.154.3.2: bytes=32 time=1ms TTL=126

Ping statistics for 172.154.3.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\>
```



PC10

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Link-local IPv6 Address . . . . . : FE80::290:2BFF:FEEA:2BDD
    IP Address. . . . . : 172.154.3.130
    Subnet Mask . . . . . : 255.255.255.224
    Default Gateway . . . . . : 172.154.3.158

Bluetooth Connection:

    Link-local IPv6 Address . . . . . : ::
    IP Address. . . . . : 0.0.0.0
    Subnet Mask . . . . . : 0.0.0.0
    Default Gateway . . . . . : 0.0.0.0

C:\>ping 168.168.3.130

Pinging 168.168.3.130 with 32 bytes of data:

Reply from 168.168.3.130: bytes=32 time=2ms TTL=126
Reply from 168.168.3.130: bytes=32 time=1ms TTL=126
Reply from 168.168.3.130: bytes=32 time=1ms TTL=126
Reply from 168.168.3.130: bytes=32 time=8ms TTL=126

Ping statistics for 168.168.3.130:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 8ms, Average = 3ms

C:\>
```