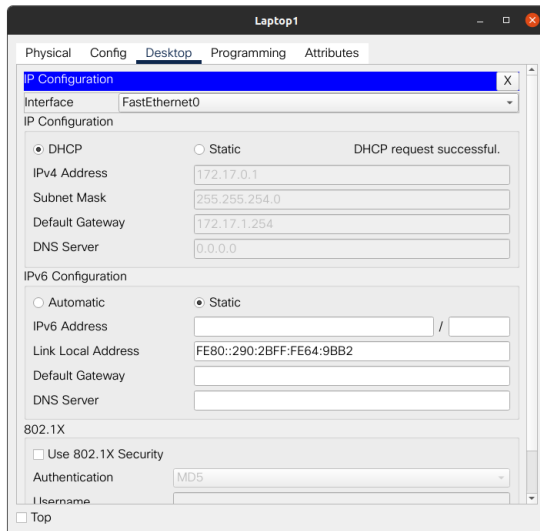


Case Study

| Interface | Dirección IP |
|----------------|--------------|
| Router Oeste | |
| S0/1/0 | |
| S0/1/1 DCE | 172.17.3.161 |
| G0/0/0 | 172.17.3.158 |
| Router Central | |
| S0/1/0 DCE | 172.17.3.165 |
| S0/1/1 | 172.17.3.162 |
| G0/0/0 | 172.17.1.254 |
| Router Este | |
| S0/1/0 | 172.17.3.166 |
| G0/0/0 | 172.17.2.254 |
| G0/0/1 | 172.17.3.126 |
| Servers | |
| Murillo | 172.17.3.129 |
| Orozco | 172.17.3.130 |

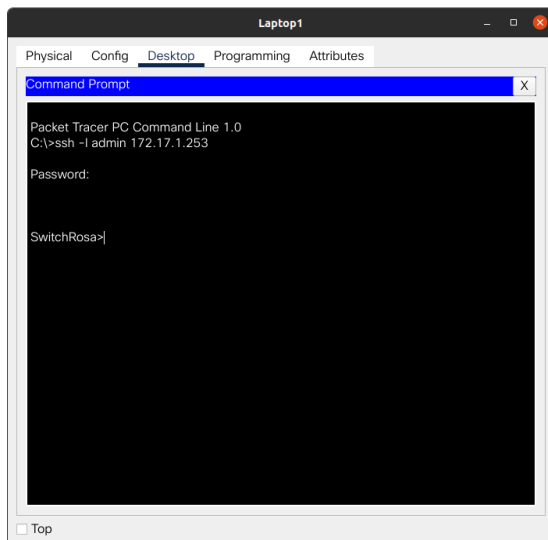
Sección Rosa

DHCP



The screenshot shows the 'IP Configuration' window for 'Laptop1' in Packet Tracer. The 'Desktop' tab is selected. Under 'IP Configuration', the 'DHCP' radio button is selected, and the status 'DHCP request successful.' is displayed. The IPv4 Address is 172.17.0.1, Subnet Mask is 255.255.254.0, Default Gateway is 172.17.1.254, and DNS Server is 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is selected, and the Link Local Address is FE80::290:2BFF:FE64:9BB2. The '802.1X' section shows 'Use 802.1X Security' is unchecked, 'Authentication' is set to MD5, and the 'Username' field is empty. A 'Top' button is at the bottom left.

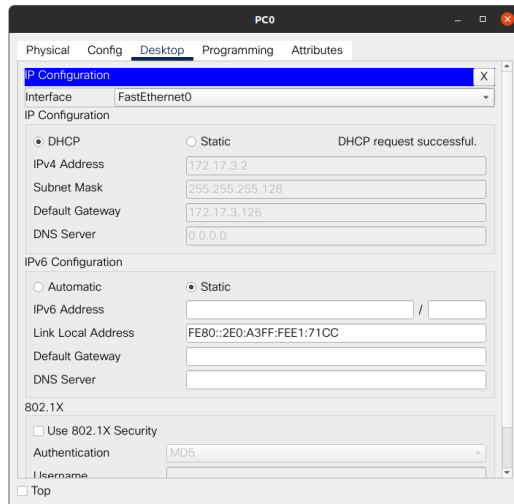
Switch



The screenshot shows the 'Command Prompt' window for 'Laptop1' in Packet Tracer. The text displayed is: 'Packet Tracer PC Command Line 1.0', 'C:\>ssh -l admin 172.17.1.253', 'Password:', and 'SwitchRosa>'. A 'Top' button is at the bottom left.

Sección Amarilla

DHCP



PC0

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address: 172.17.3.2

Subnet Mask: 255.255.255.128

Default Gateway: 172.17.3.126

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::2E0:A3FF:FEE1:71CC

Default Gateway:

DNS Server:

802.1X

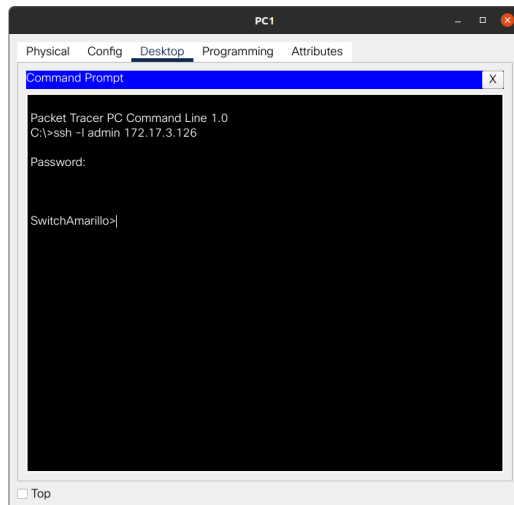
☐ Use 802.1X Security

Authentication: MD5

Username:

☐ Top

Switch



PC1

Physical Config Desktop Programming Attributes

Command Prompt

Packet Tracer PC Command Line 1.0

C:\>ssh -l admin 172.17.3.126

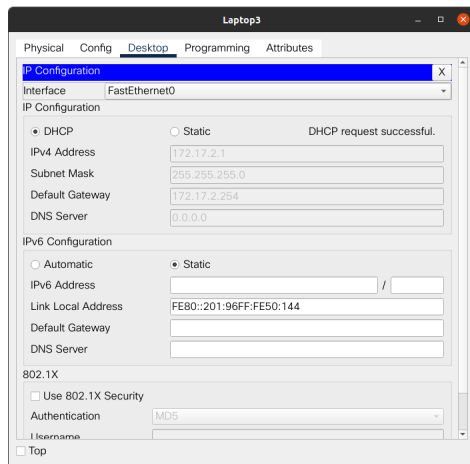
Password:

SwitchAmarillo>

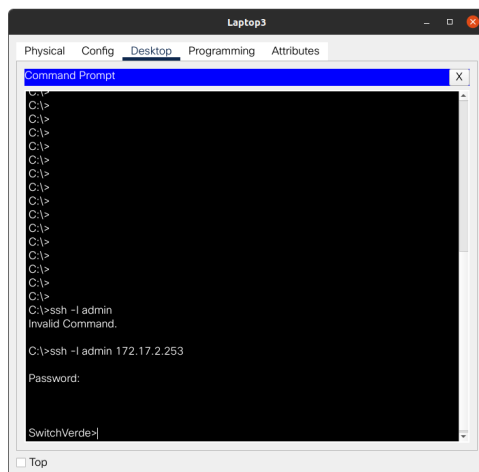
☐ Top

Sección Verde

DHCP

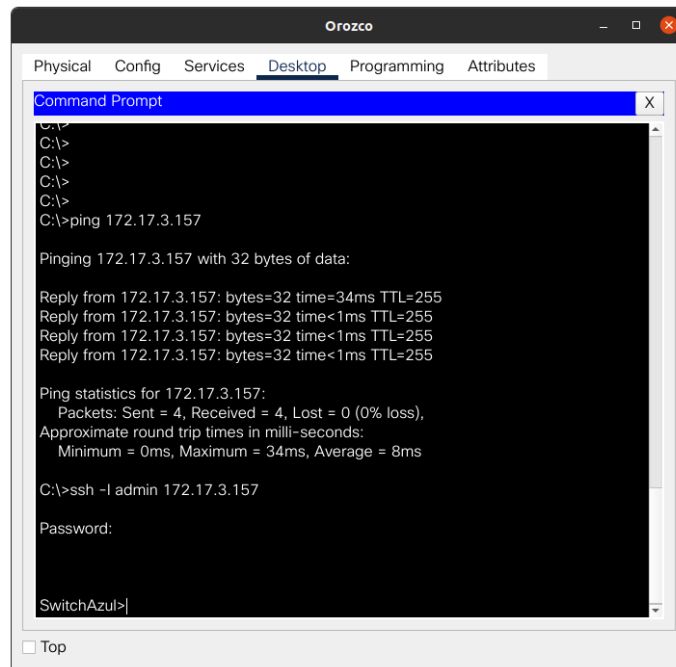


Switch



Sección Azul

Switch



The screenshot shows a network switch configuration interface with tabs for Physical, Config, Services, Desktop, Programming, and Attributes. A Command Prompt window is open, displaying the following text:

```
C:\>  
C:\>  
C:\>  
C:\>  
C:\>  
C:\>ping 172.17.3.157  
  
Pinging 172.17.3.157 with 32 bytes of data:  
  
Reply from 172.17.3.157: bytes=32 time=34ms TTL=255  
Reply from 172.17.3.157: bytes=32 time<1ms TTL=255  
Reply from 172.17.3.157: bytes=32 time<1ms TTL=255  
Reply from 172.17.3.157: bytes=32 time<1ms TTL=255  
  
Ping statistics for 172.17.3.157:  
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
    Approximate round trip times in milli-seconds:  
        Minimum = 0ms, Maximum = 34ms, Average = 8ms  
  
C:\>ssh -l admin 172.17.3.157  
  
Password:  
  
SwitchAzul>
```

At the bottom of the window, there is a checkbox labeled "Top".