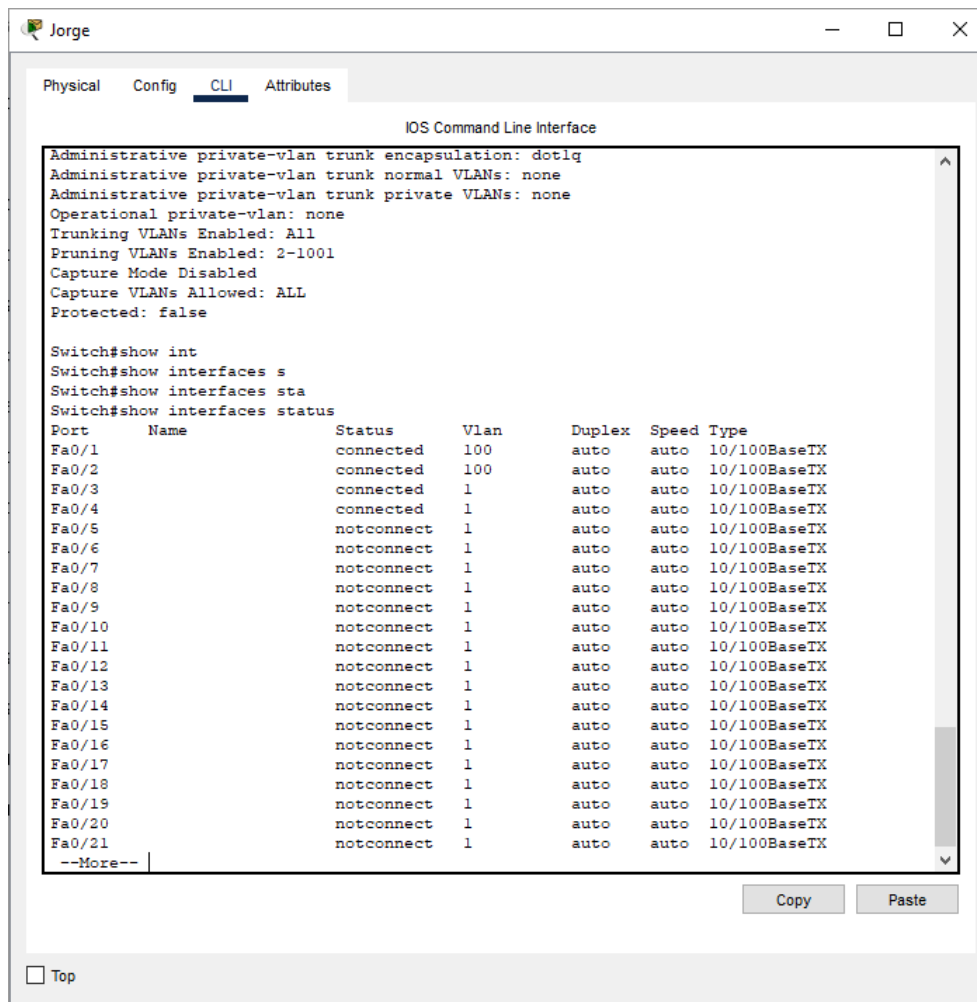
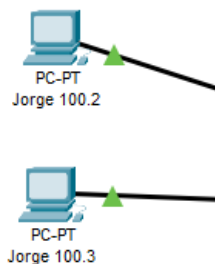


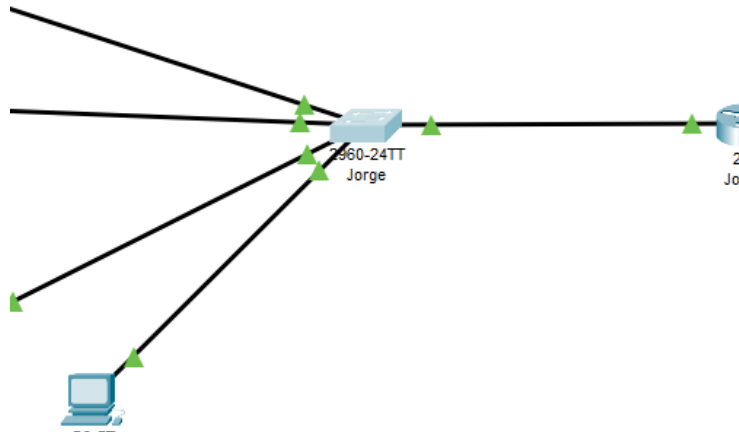
## 1. Conectar dos PCs a un Switch en puertos de acceso



## 2. Nombra las PCs con tu nombre y los ultimos 2 octetos de la IP



### 3. Nombra el Switch con tu nombre



### 4. Asignar Vlan en los Puerto de acceso del switch y colocar descripción

```
Jorge
Physical Config CLI Attributes
IOS Command Line Interface
Switch(config)#switch
Switch(config)#switchp
Switch(config)#sho
Switch(config)#show
Switch(config)#show vla
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

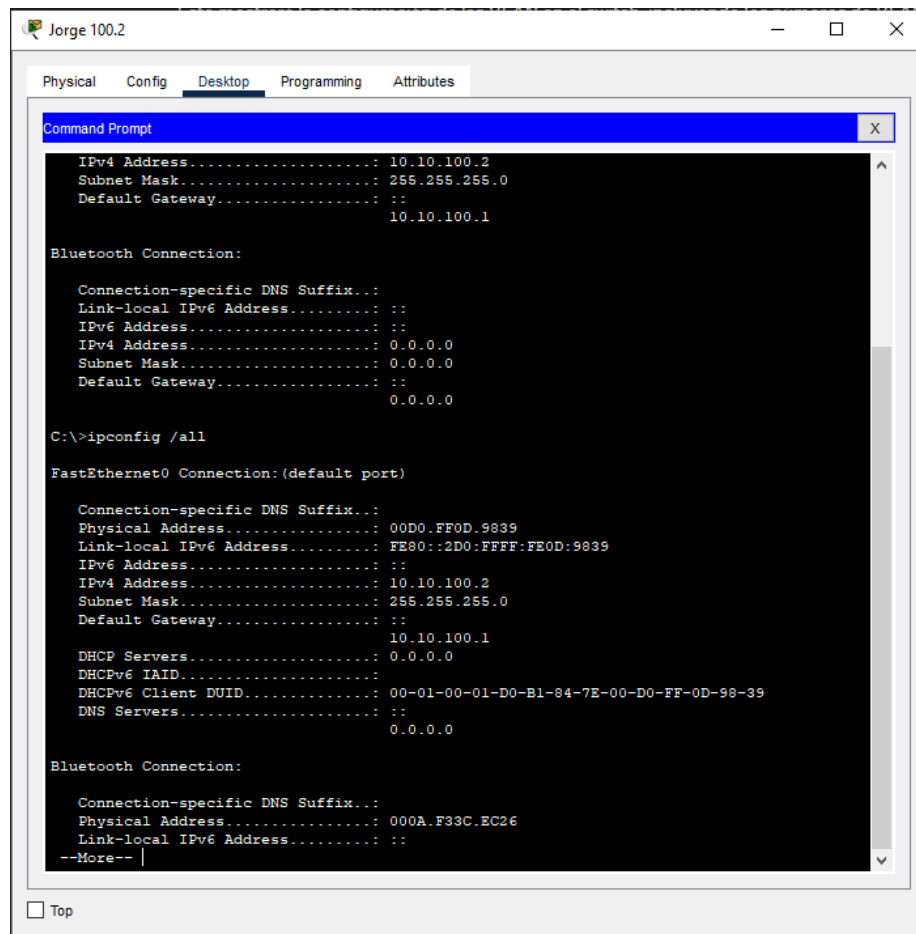
Switch#
Switch#sh
Switch#show v
Switch#show vla
Switch#show vlan

VLAN Name                Status    Ports
-----
1    default                active    Fa0/3, Fa0/4, Fa0/5, Fa0/6
                                   Fa0/7, Fa0/8, Fa0/9, Fa0/10
                                   Fa0/11, Fa0/12, Fa0/13, Fa0/14
                                   Fa0/15, Fa0/16, Fa0/17, Fa0/18
                                   Fa0/19, Fa0/20, Fa0/21, Fa0/22
                                   Fa0/23, Gig0/1, Gig0/2
100  VLAN0100              active    Fa0/1, Fa0/2
1002 fddi-default         active
1003 token-ring-default   active
1004 fddinet-default       active
1005 trnet-default         active

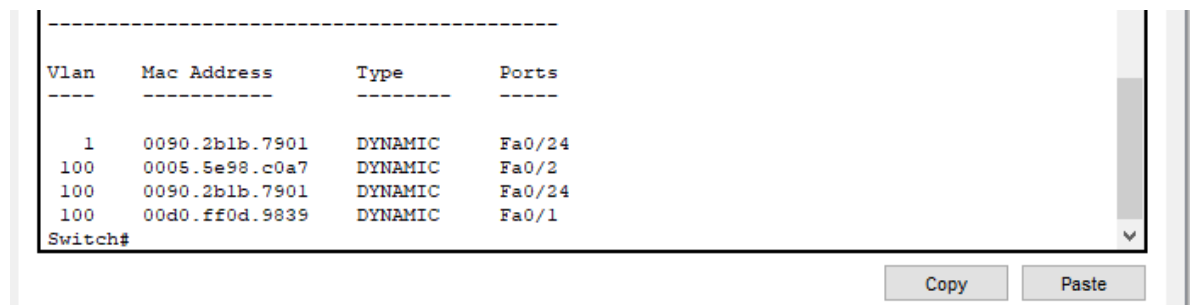
VLAN Type  SAID      MTU    Parent RingNo BridgeNo Stp    BrdgMode Transl Trans2
-----
1    enet    100001   1500    -      -      -      -      -      0      0
100  enet    100100   1500    -      -      -      -      -      0      0
1002 fddi    101002   1500    -      -      -      -      -      0      0
1003 tr     101003   1500    -      -      -      -      -      0      0
1004 fdnet  101004   1500    -      -      -      ieee  -      0      0
--More--

Copy Paste
```

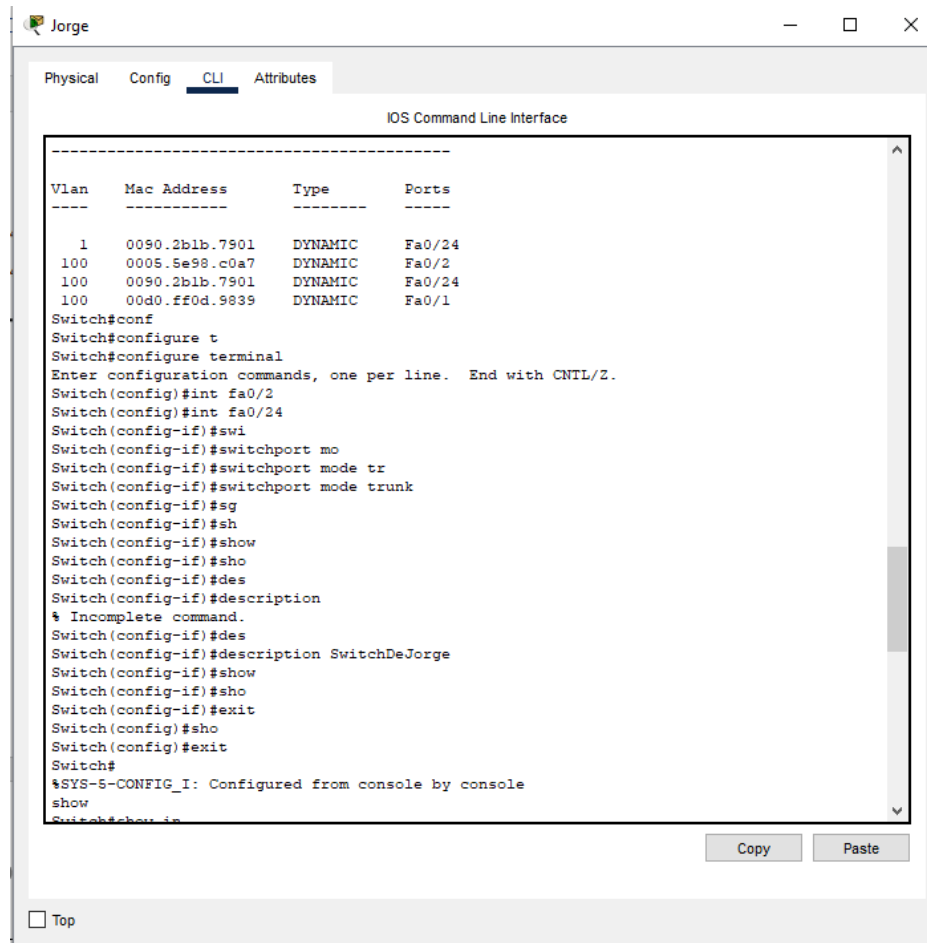
## 5. Observar la mac address en PC



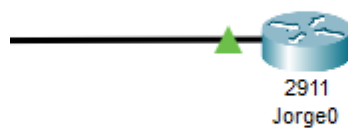
## 6. Ver esa mac address en el Switch



## 7. Conectar el switch a un router con un Puerto Trunk y colocar descripción

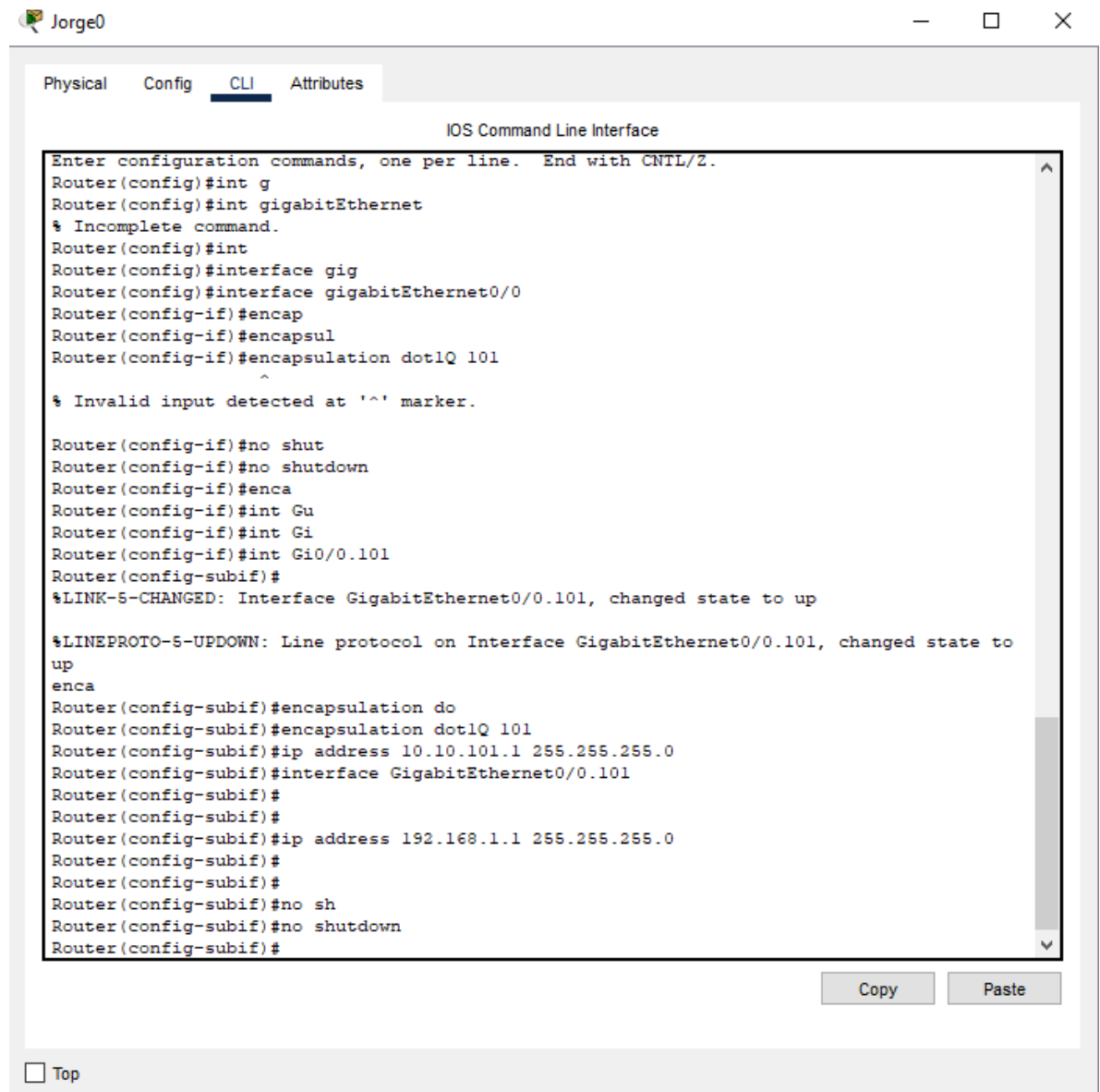


## 8. Nombra el Router con tu nombre





## 11. Asignar direccionamiento IP a la Vlan de capa 3 en el router



```
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int g
Router(config)#int gigabitEthernet
% Incomplete command.
Router(config)#int
Router(config)#interface gig
Router(config)#interface gigabitEthernet0/0
Router(config-if)#encap
Router(config-if)#encapsul
Router(config-if)#encapsulation dot1Q 101
^
% Invalid input detected at '^' marker.

Router(config-if)#no shut
Router(config-if)#no shutdown
Router(config-if)#enca
Router(config-if)#int Gu
Router(config-if)#int Gi
Router(config-if)#int Gi0/0.101
Router(config-subif)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0.101, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.101, changed state to
up
enca
Router(config-subif)#encapsulation do
Router(config-subif)#encapsulation dot1Q 101
Router(config-subif)#ip address 10.10.101.1 255.255.255.0
Router(config-subif)#interface GigabitEthernet0/0.101
Router(config-subif)#
Router(config-subif)#
Router(config-subif)#ip address 192.168.1.1 255.255.255.0
Router(config-subif)#
Router(config-subif)#
Router(config-subif)#no sh
Router(config-subif)#no shutdown
Router(config-subif)#
```

☐ Top

## 12. Asignar IP, mascara de red y gateway a la PC

The screenshot shows a window titled "Jorge 101.2" with tabs for Physical, Config, Desktop, Programming, and Attributes. The "Desktop" tab is active, and the "IP Configuration" sub-tab is selected. The "Interface" dropdown is set to "FastEthernet0". Under "IP Configuration", the "Static" radio button is selected. The fields are filled with: IPv4 Address: 10.10.102.2, Subnet Mask: 255.0.0.0, Default Gateway: 10.10.101.1, and DNS Server: 0.0.0.0. Under "IPv6 Configuration", the "Static" radio button is also selected. The fields are: IPv6 Address (empty), Link Local Address: FE80::290:CFF:FE38:D32D, Default Gateway (empty), and DNS Server (empty). Under "802.1X", the "Use 802.1X Security" checkbox is unchecked, and the "Authentication" dropdown is set to "MD5". The "Username" and "Password" fields are empty. A "Top" button is at the bottom left.

## 13. Ping exitoso de PC a PC

```
C:\>ping 10.10.100.3

Pinging 10.10.100.3 with 32 bytes of data:

Reply from 10.10.100.3: bytes=32 time=10ms TTL=128
Reply from 10.10.100.3: bytes=32 time=1ms TTL=128
Reply from 10.10.100.3: bytes=32 time<1ms TTL=128
Reply from 10.10.100.3: bytes=32 time<1ms TTL=128

Ping statistics for 10.10.100.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 2ms

C:\>
```

## 14. Ping exitoso de PC a Router y viceversa

```
C:\>ping 10.10.100.1

Pinging 10.10.100.1 with 32 bytes of data:

Reply from 10.10.100.1: bytes=32 time<1ms TTL=255
Reply from 10.10.100.1: bytes=32 time<1ms TTL=255
Reply from 10.10.100.1: bytes=32 time<1ms TTL=255
Reply from 10.10.100.1: bytes=32 time<1ms TTL=255

Ping statistics for 10.10.100.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```