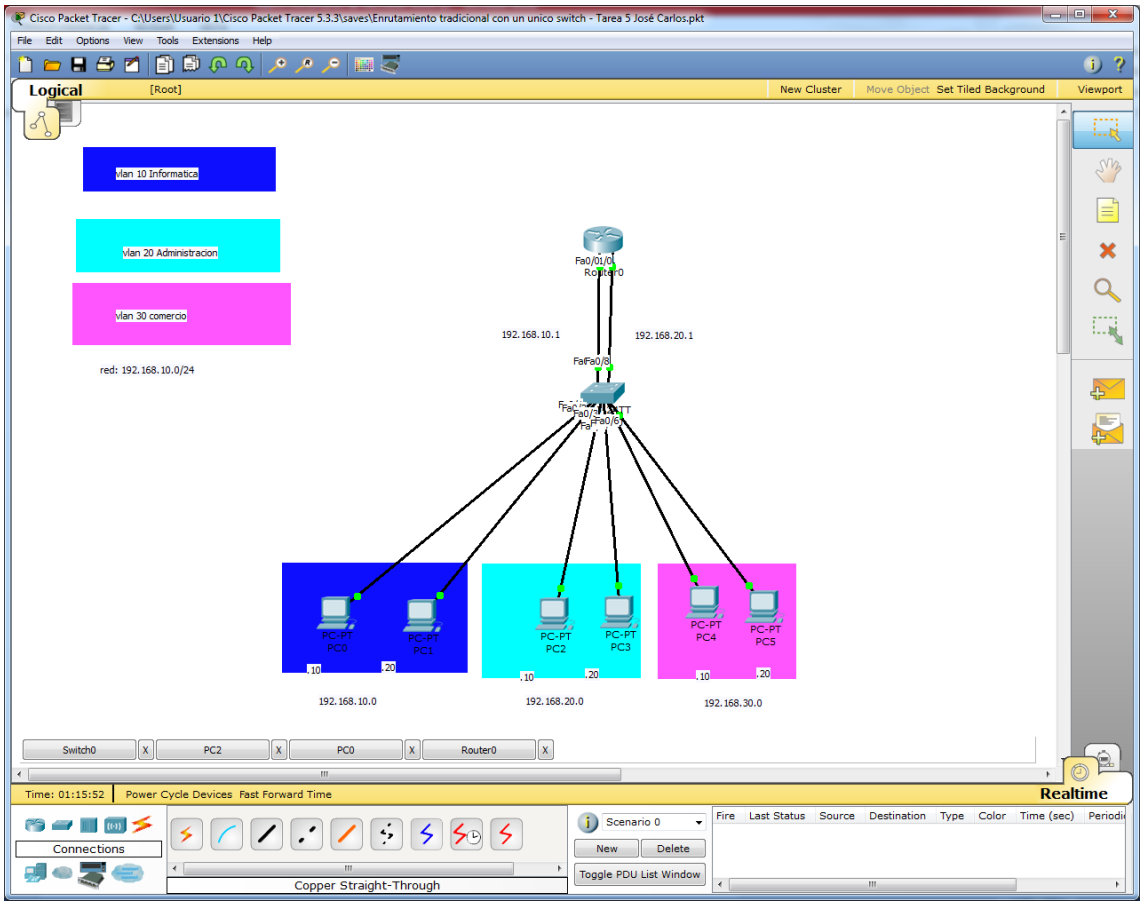
José Carlos Roncero Blanco

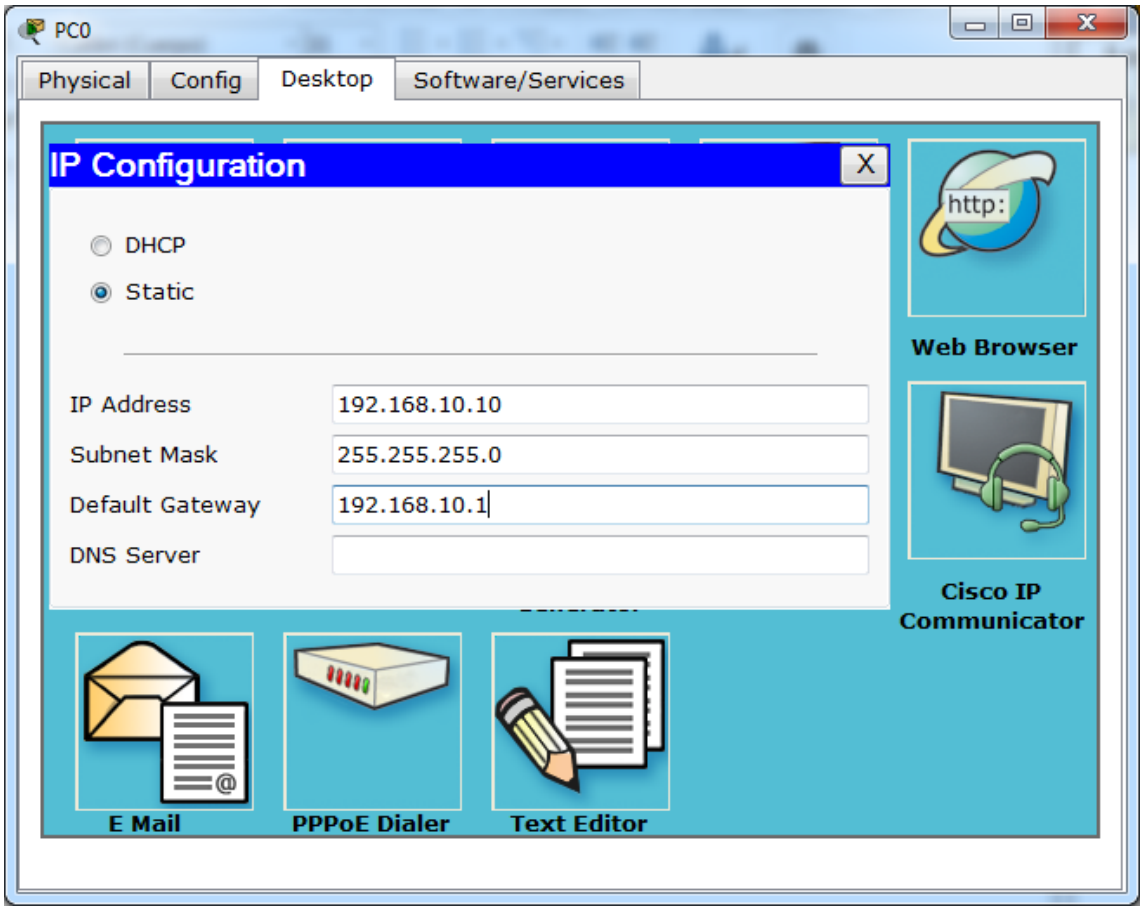
Tarea 4 – Enrutamiento tradicional con un único switch

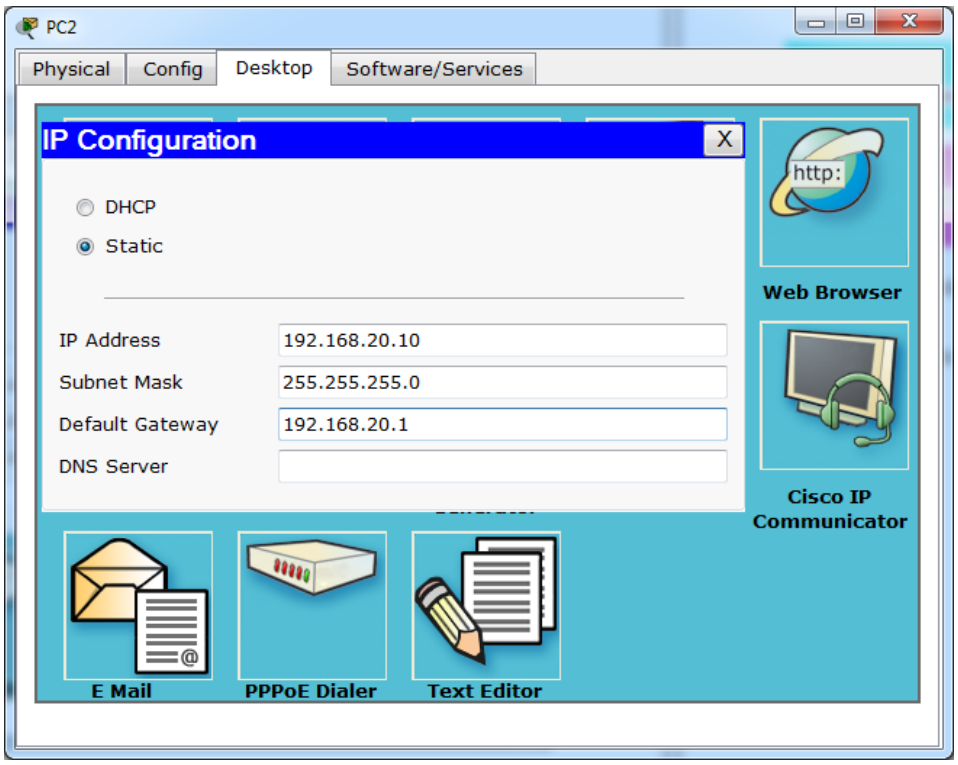
Este será mi supuesto practico:

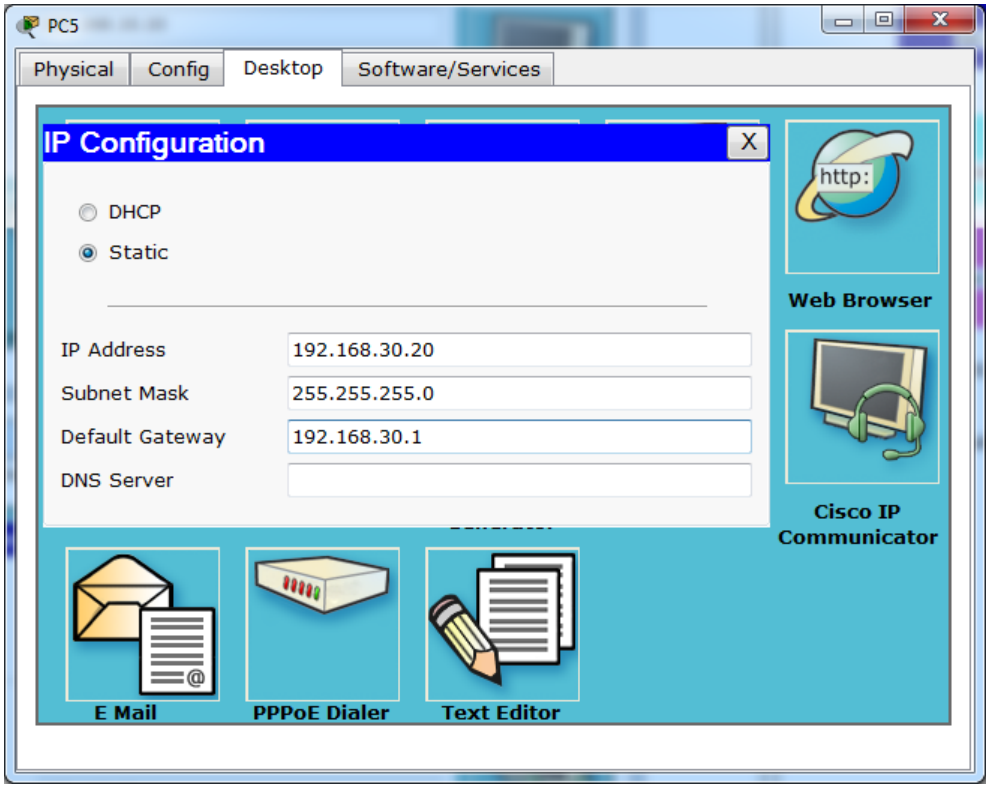


Tendre un router, un switch y 6 pc, donde crearemos 3 vlan. Cada vlan tendrá una red distinta y la finalización será poder establecer comunicación entre las diferentes Vlan

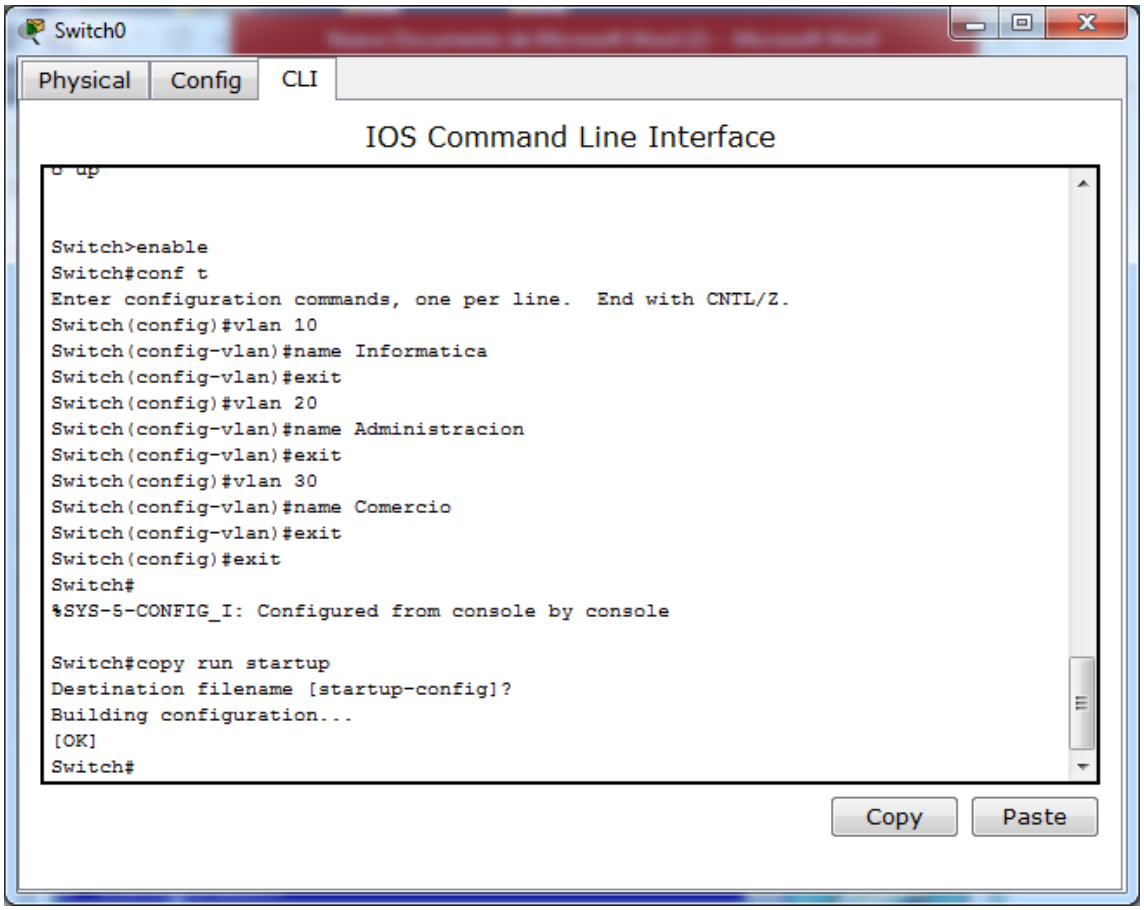
Asignaremos las diferentes ip a cada equipo dependiendo de su red



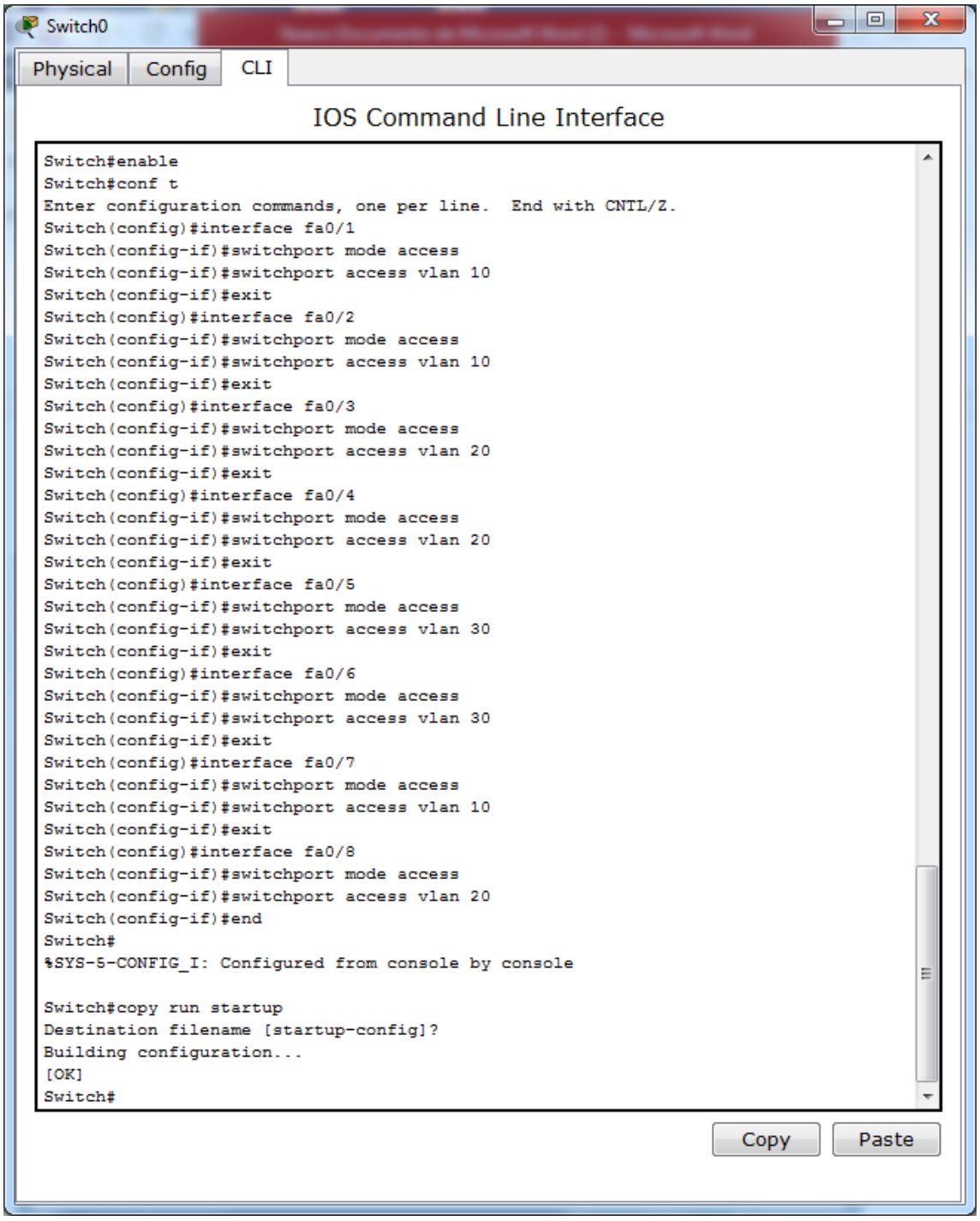




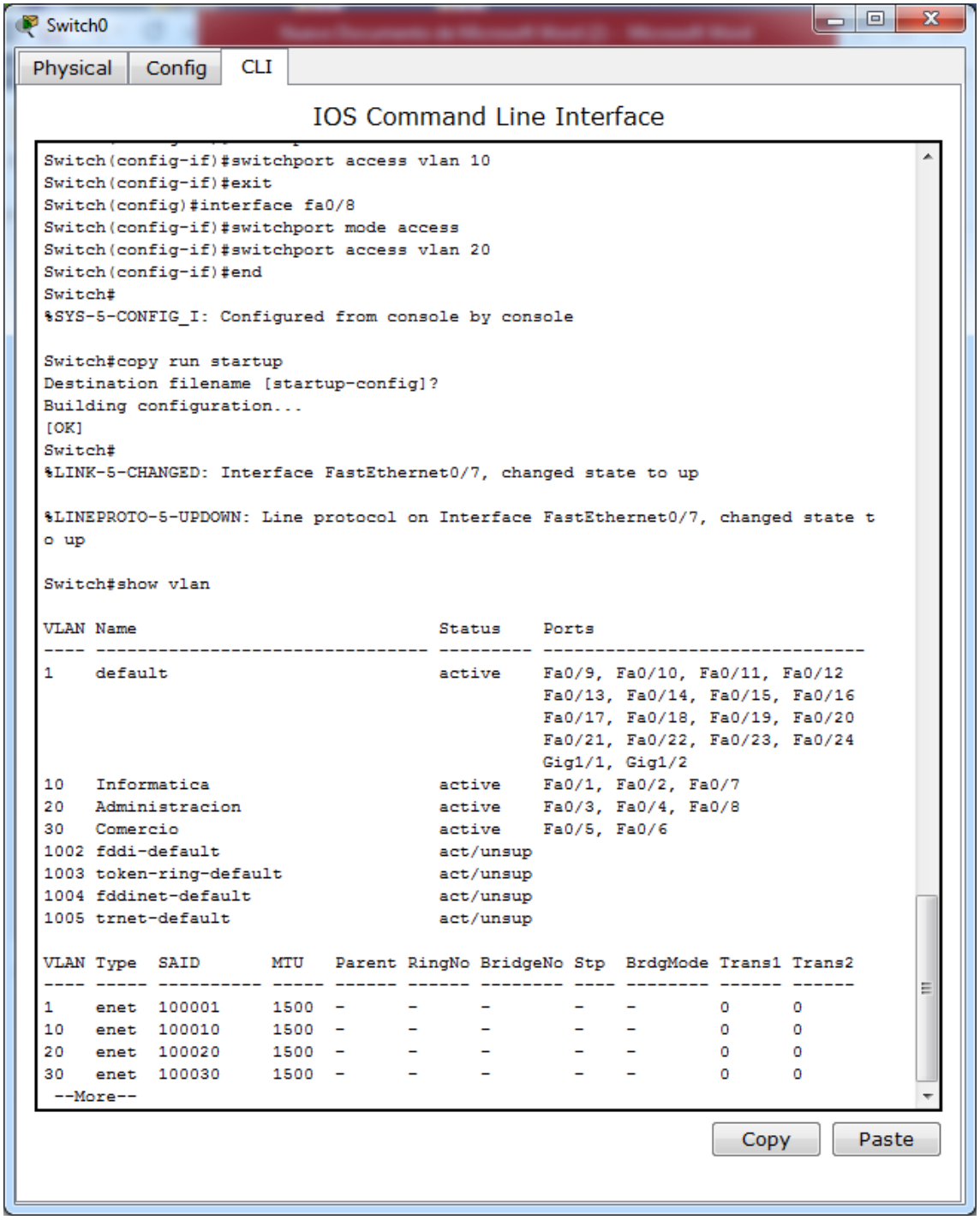
Crearemos las vlan en el switch



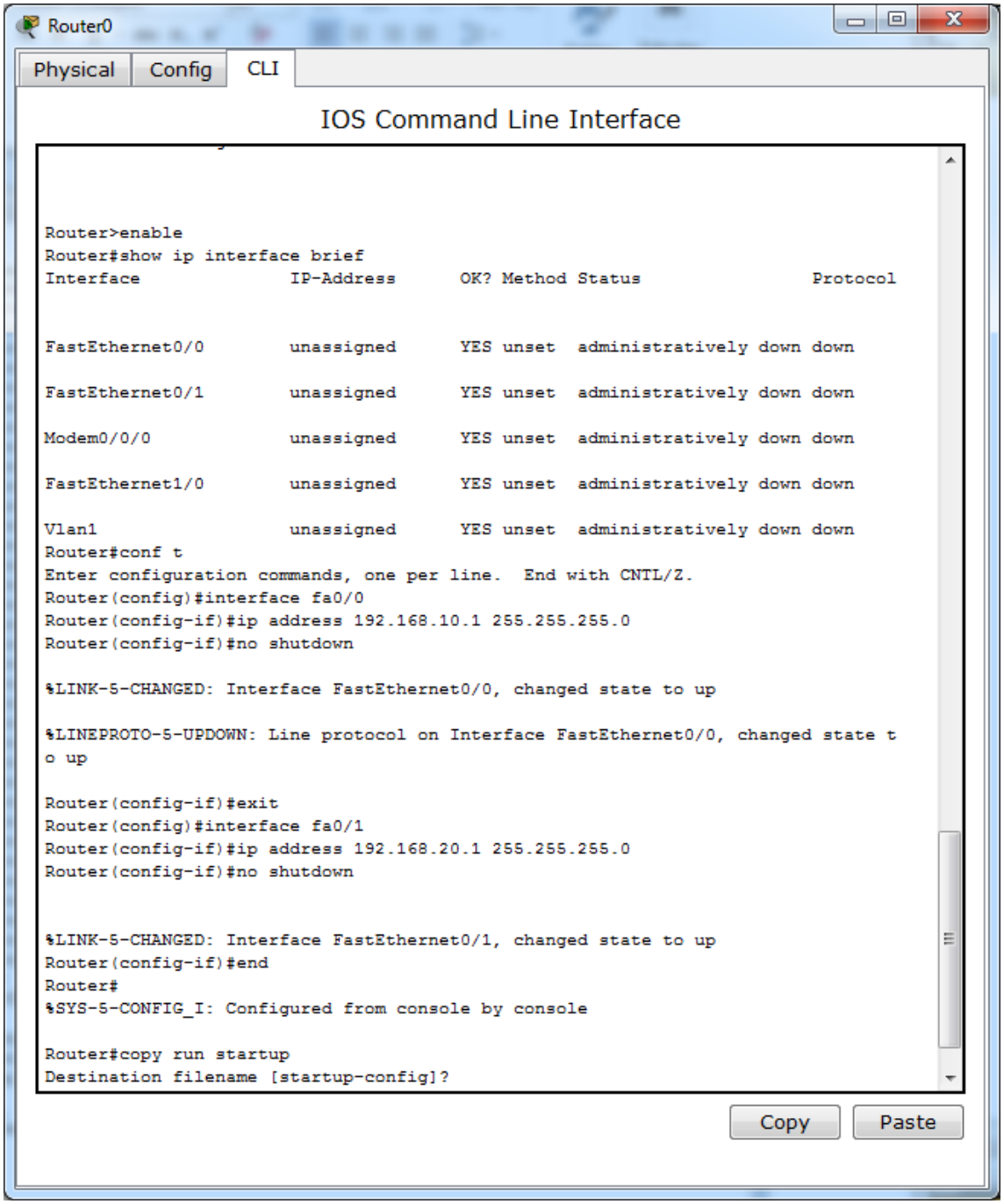
Ahora vamos a añadir las interfaces a las vlan que deseemos

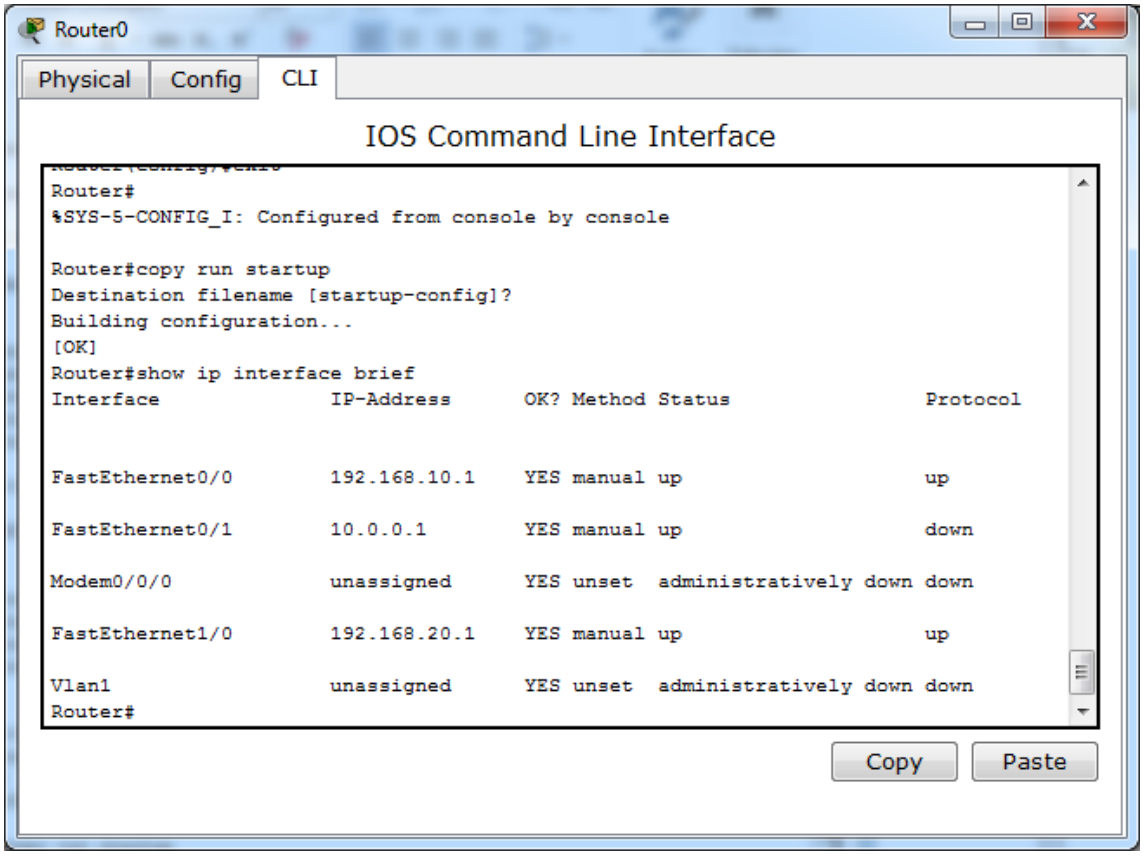


Aquí mostraremos un show vlan

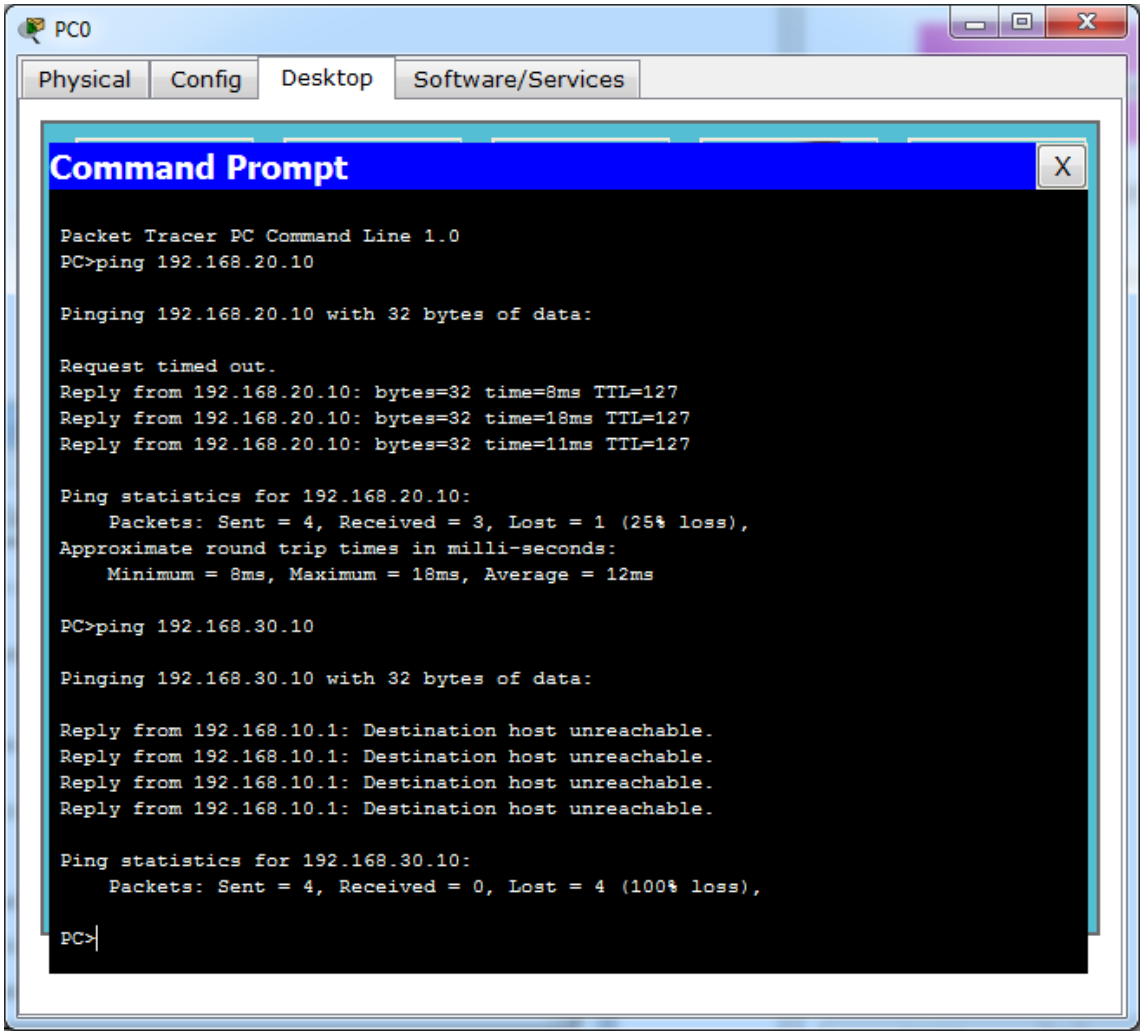


Ahora vamos a configurar las interfaces del router


Router0
Physical
Config
CLI
IOS Command Line Interface
Router>enable
Router#show ip interface brief
Interface   IP-Address   OK? Method Status   Protocol
FastEthernet0/0   unassigned   YES unset administratively down down
FastEthernet0/1   unassigned   YES unset administratively down down
Modem0/0/0   unassigned   YES unset administratively down down
FastEthernet1/0   unassigned   YES unset administratively down down
Vlan1   unassigned   YES unset administratively down down
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up
Router(config-if)#exit
Router(config)#interface fa0/1
Router(config-if)#ip address 192.168.20.1 255.255.255.0
Router(config-if)#no shutdown
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#copy run startup
Destination filename [startup-config]?
Copy
Paste



Como podemos ver ahora el pc 0 puede realizar un ping y comunicarse con los diferentes equipos de las otras vlan


PC0
Physical
Config
Desktop
Software/Services
Command Prompt
X
Packet Tracer PC Command Line 1.0
PC>ping 192.168.20.10
Pinging 192.168.20.10 with 32 bytes of data:
Request timed out.
Reply from 192.168.20.10: bytes=32 time=8ms TTL=127
Reply from 192.168.20.10: bytes=32 time=18ms TTL=127
Reply from 192.168.20.10: bytes=32 time=11ms TTL=127
Ping statistics for 192.168.20.10:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 8ms, Maximum = 18ms, Average = 12ms
PC>ping 192.168.30.10
Pinging 192.168.30.10 with 32 bytes of data:
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Reply from 192.168.10.1: Destination host unreachable.
Ping statistics for 192.168.30.10:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
PC>