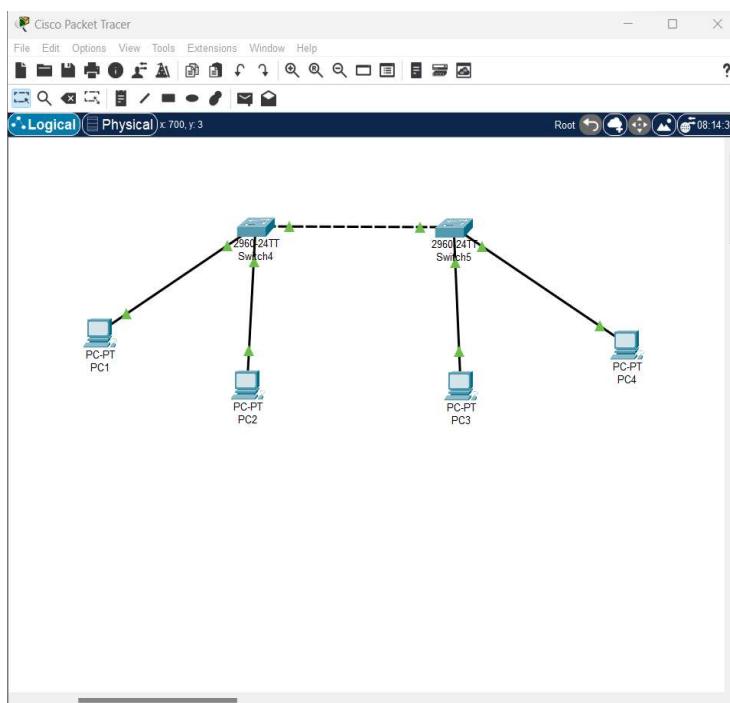
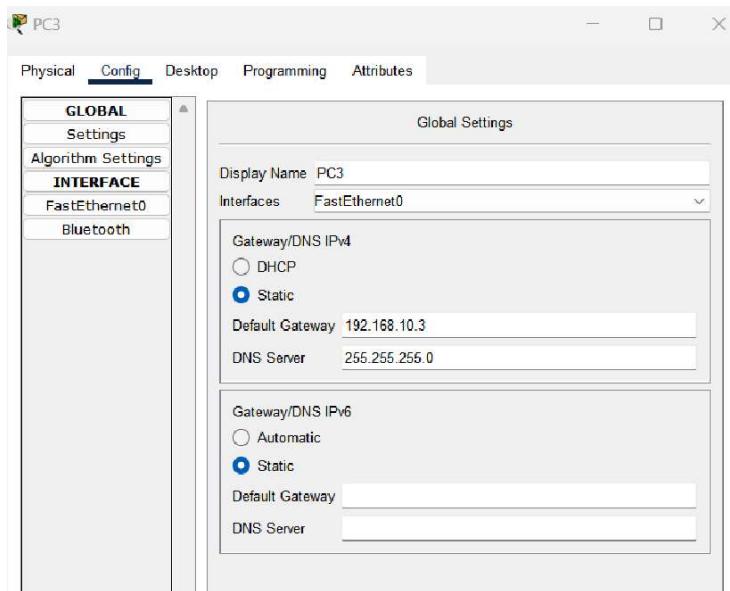
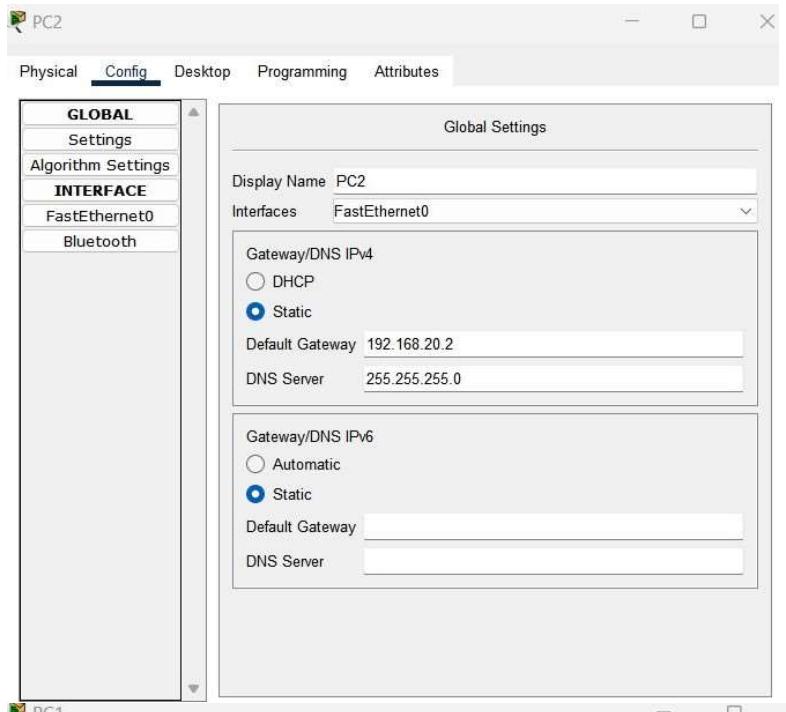


Séparer les flux - Chap Vlan - TP Routage Inter Vlan

Josselin





The screenshot shows a Command Prompt window titled 'Command Prompt' for device 'PC1'. The window displays the following output:

```
IPv6 Address.....:::  
IPv4 Address.....: 192.168.10.1  
Subnet Mask.....: 255.255.255.0  
Default Gateway.....:::  
                           192.168.10.254  
  
Bluetooth Connection:  
  
Connection-specific DNS Suffix...:  
Link-local IPv6 Address.....:::  
IPv6 Address.....:::  
IPv4 Address.....: 0.0.0.0  
Subnet Mask.....: 0.0.0.0  
Default Gateway.....:::  
                           0.0.0.0  
  
C:\>ipconfig 192.168.20.2  
Invalid Command.  
  
C:\>ping 192.168.20.2  
  
Pinging 192.168.20.2 with 32 bytes of data:  
  
Request timed out.  
Request timed out.  
Request timed out.  
Request timed out.  
  
Ping statistics for 192.168.20.2:  
  Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),  
C:\>
```

PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
0.0.0.0

C:\>ipconfig 192.168.20.2
Invalid Command.

C:\>ping 192.168.20.2
Pinging 192.168.20.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.20.2:
  Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.10.3
Pinging 192.168.10.3 with 32 bytes of data:
Reply from 192.168.10.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.3:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
```

PC2

Physical Config Desktop Programming Attributes

Command Prompt

```
Link-local IPv6 Address.....: FE80::260:2FFF:FE82:1702
IPv6 Address.....: ::
IPv4 Address.....: 192.168.20.2
Subnet Mask.....: 255.255.255.0
Default Gateway.....: :: 192.168.20.254

Bluetooth Connection:

Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: :: 0.0.0.0

C:\>ping 192.168.20.4
Pinging 192.168.20.4 with 32 bytes of data:
Reply from 192.168.20.4: bytes=32 time<1ms TTL=128
Reply from 192.168.20.4: bytes=32 time<1ms TTL=128
Reply from 192.168.20.4: bytes=32 time<1ms TTL=128
Reply from 192.168.20.4: bytes=32 time=4ms TTL=128

Ping statistics for 192.168.20.4:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 0ms, Maximum = 4ms, Average = 1ms
C:\>
```

C1

Physical Config **CLI** Attributes

IOS Command Line Interface

```

up

%LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>enable
Switch#show vlan brief

VLAN Name          Status      Ports
-----  -----
1    default        active     Fa0/1, Fa0/2, 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, Fa0/24
                           Gig0/1, Gig0/2
1002 fddi-default   active
1003 token-ring-default   active
1004 fddinet-default   active
1005 trnet-default   active
Switch#

```

Copy **Paste**

C1

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Switch>enable
Switch#show vlan brief

VLAN Name          Status      Ports
-----  -----
1    default        active     Fa0/1, Fa0/2, 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, Fa0/24

1002 fddi-default   active
1003 token-ring-default   active
1004 fddinet-default   active
1005 trnet-default   active
Switch#enable
Switch#vlan database
% Warning: It is recommended to configure VLAN from config mode,
as VLAN database mode is being deprecated. Please consult user
documentation for configuring VTP/VLAN in config mode.

Switch(vlan)#vlan 10 name vlan 10
^
% Invalid input detected at '^' marker.

Switch(vlan)#vlan 10 name vlan10
VLAN 10 added:
  Name: vlan10
Switch(vlan)#vlan 20 name vlan20
VLAN 20 added:
  Name: vlan20
Switch(vlan)#exit
APPLY completed.
Exiting...
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fastEthernet 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface fastEthernet 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
^
% Invalid input detected at '^' marker.

Switch(config-if)#switchport access vlan 20
Switch(config-if)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

```

C1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
as VLAN database mode is being deprecated. Please consult user documentation for configuring VIF/VLAN in config mode.

Switch(vlan)#vlan 10 name vlan 10
^
* Invalid input detected at '^' marker.

Switch(vlan)#vlan 10 name vlan10
VLAN 10 added:
  Name: vlan10
Switch(vlan)#vlan 20 name vlan20
VLAN 20 added:
  Name: vlan20
Switch#exit
APPLY completed.
Exiting...
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fastEthernet 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface fastEthernet 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
^
* Invalid input detected at '^' marker.

Switch(config-if)#switchport access vlan 20
Switch(config-if)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan brief

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, Fa0/24
10  vlan10          active    Fa0/1
20  vlan20          active    Fa0/2
1002 fddi-default   active
1003 token-ring-default active
1004 fddinet-default active
1005 trnet-default   active
Switch#
```

Physical Config **CLI** Attributes

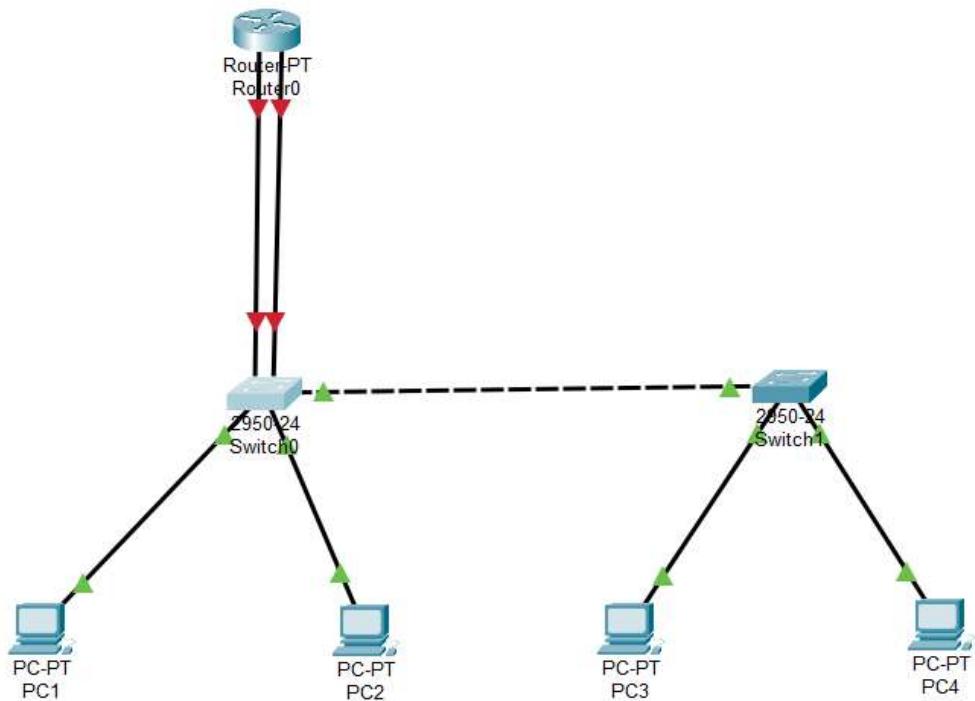
IOS Command Line Interface

```
Switch>enable
Switch#vlan database
% Warning: It is recommended to configure VLAN from config mode,
as VLAN database mode is being deprecated. Please consult user
documentation for configuring VTP/VLAN in config mode.

Switch(vlan)#vlan 10 name vlan10
VLAN 10 added:
  Name: vlan10
Switch(vlan)#vlan 10 name vlan20
VLAN 10 modified:
  Name: vlan20
Switch(vlan)#exit
APPLY completed.
Exiting...
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fastEthernet 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface fastEthernet 0/2
Switch(config-if)#switchport mode access
```

Switch con0 is now available

Press RETURN to get started.



Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.3

Pinging 192.168.10.3 with 32 bytes of data:

Reply from 192.168.10.3: bytes=32 time=lms TTL=128
Reply from 192.168.10.3: bytes=32 time=lms TTL=128
Reply from 192.168.10.3: bytes=32 time<lms TTL=128
Reply from 192.168.10.3: bytes=32 time<lms TTL=128

Ping statistics for 192.168.10.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = lms, Average = 0ms

C:\>
```

```
Power supply serial number: DAB0609127D
Model revision number: C0
Motherboard revision number: A0
Model number: WS-C2950-24
System serial number: FHK0610Z0WC

Cisco Internetwork Operating System Software
IOS (tm) C2950 Software (C2950-I6Q4L2-M), Version 12.1(22)EA4, RELEASE SOFTWARE(fcl)
Copyright (c) 1986-2005 by cisco Systems, Inc.
Compiled Wed 18-May-05 22:31 by jharirba

Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/8, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/8, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fastEthernet 0/8
Switch(config-if)#switch mode trunk
Switch(config-if)#switchport trunk allowed vlan 10-20
Switch(config-if)#END
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show interface trunk
Port      Mode       Encapsulation  Status      Native vlan
Fa0/8    on         802.1q          trunking     1

Port      Vlans allowed on trunk
Fa0/8    10-20

Port      Vlans allowed and active in management domain
Fa0/8    10,20

Port      Vlans in spanning tree forwarding state and not pruned
Fa0/8    10,20

Switch#
```

Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\ping 192.168.10.10

Pinging 192.168.10.10 with 32 bytes of data:

Reply from 192.168.10.10: bytes=32 time=4ms TTL=128
Reply from 192.168.10.10: bytes=32 time<1ms TTL=128
Reply from 192.168.10.10: bytes=32 time=10ms TTL=128
Reply from 192.168.10.10: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 3ms

C:>>
```

Physical Config CLI Attributes

GLOBAL	
Settings	
Algorithm Settings	
ROUTING	
Static	
RIP	
INTERFACE	
FastEthernet0/0	
FastEthernet1/0	
Serial2/0	
Serial3/0	
FastEthernet4/0	
FastEthernet5/0	
FastEthernet0/0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input type="radio"/> 100 Mbps <input checked="" type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	00D0.581B.76D2
IP Configuration	
IPv4 Address	192.168.10.254
Subnet Mask	255.255.255.0
Tx Ring Limit	10

Equivalent IOS Commands

```
Router(config)#  
Router(config)#interface FastEthernet1/0  
Router(config-if)#no shutdown  
Router(config-if)#  
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up  
  
Router(config-if)#exit  
Router(config)#interface FastEthernet0/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet0/0  
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  
ip address 192.168.10.254 255.255.255.0  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet0/0  
Router(config-if)#+
```

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch#  
  
Switch con0 is now available  
  
Press RETURN to get started.  
  
%LINK-5-CHANGED: Interface FastEthernet0/11, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/11, changed state to up  
%LINK-5-CHANGED: Interface FastEthernet0/10, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/10, changed state to up  
  
Switch>enable  
Switch#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Switch(config)#interface FastEthernet 0/10  
Switch(config-if)#switchport mode access  
Switch(config-if)#switchport access vlan 10  
Switch(config-if)#exit  
Switch(config)#interface FastEthernet 0/11  
Switch(config-if)#switchport mode access  
Switch(config-if)#switchport access vlan 20  
Switch(config-if)#

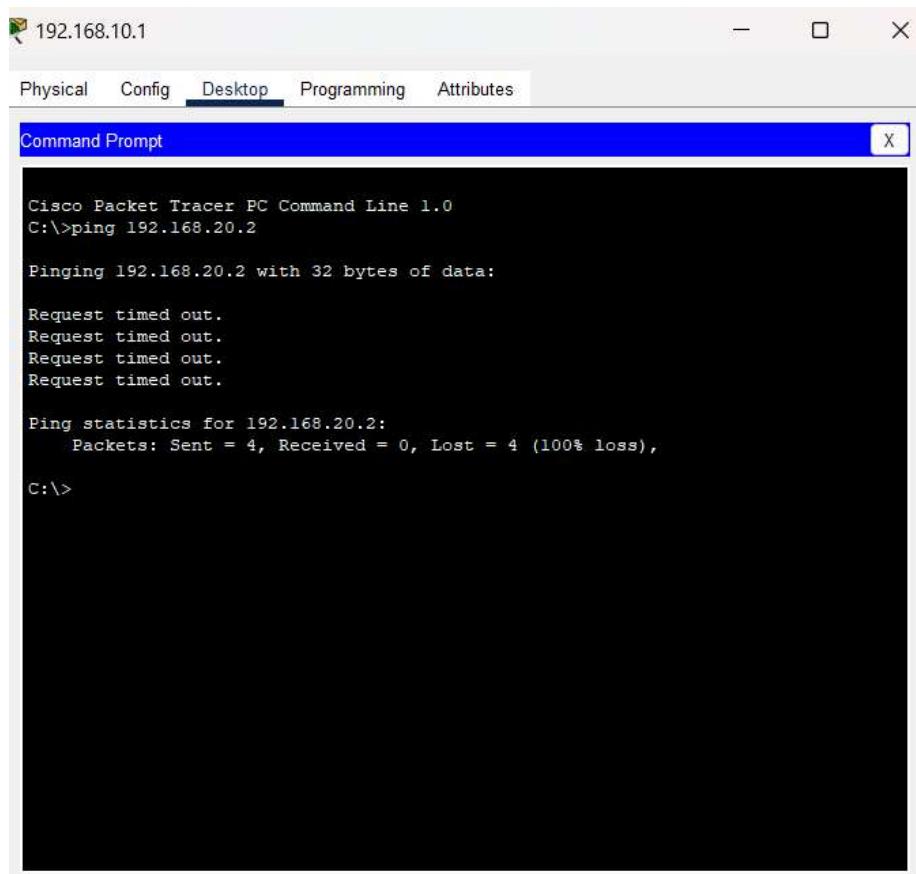
```

Physical **Config** CLI Attributes

IOS Command Line Interface

```
Press RETURN to get started.  
  
Router>enable  
Router#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#interface fastEthernet 0/0  
Router(config-if)#ip address 192.168.10.254 255.255.255.0  
Router(config-if)#exit  
Router(config)#interface fastEthernet 1/0  
Router(config-if)#ip address 192.168.20.254 255.255.255.0  
Router(config-if)#end  
Router#  
%SYS-5-CONFIG_I: Configured from console by console  
  
Router#show running-config  
Building configuration...  
  
Current configuration : 718 bytes  
!  
version 12.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname Router  
!  
!  
!  
!  
!  
!  
ip cef  
no ipv6 cef  
!  
!  
--More--

```



Physical Config **CLI** Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.1, changed state to up
Router(config-subif)#encapsulation dot1Q 10
Router(config-subif)#ip address 192.168.10.254 255.255.255?
A.B.C.D
Router(config-subif)#ip address 192.168.10.254 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#exit
Router(config)#interface fastEthernet 0/0.2
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.2, changed state to up
Router(config-subif)#encapsulation dot1Q 20
Router(config-subif)#ip address 192.168.20.254 255.255.255.0
% 192.168.20.0 overlaps with FastEthernet1/0
Router(config-subif)#no shutdown
Router(config-subif)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show running-config
^
% Invalid input detected at '^' marker.

Router#show running-config
Building configuration...
Current configuration : 856 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
--More--
```

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fastEthernet 0/9
Switch(config-if)#switchport mode trunk
^
% Invalid input detected at '^' marker.

Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/9, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/9, changed state to up
Switch(config-if)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
Switch#show running-config
Building configuration...
Current configuration : 1305 bytes
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
 switchport access vlan 10
 switchport mode access
--More--
```

