Physical | Config | CLI | Attributes

IOS Command Line Interface

```
Port          Vlans allowed on trunk
Fa0/2         1-1005

Port          Vlans allowed and active in management domain
Fa0/2         1,10,20

Port          Vlans in spanning tree forwarding state and not pruned
Fa0/2         1,10,20

Switch#show vlan brief

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/3, Fa0/4, 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
10   Faculty                          active    Fa0/5, Fa0/6
20   Students                         active    Fa0/7, Fa0/8
1002 fddi-default                     active
1003 token-ring-default               active
1004 fddinet-default                  active
1005 trnet-default                    active
Switch#
```

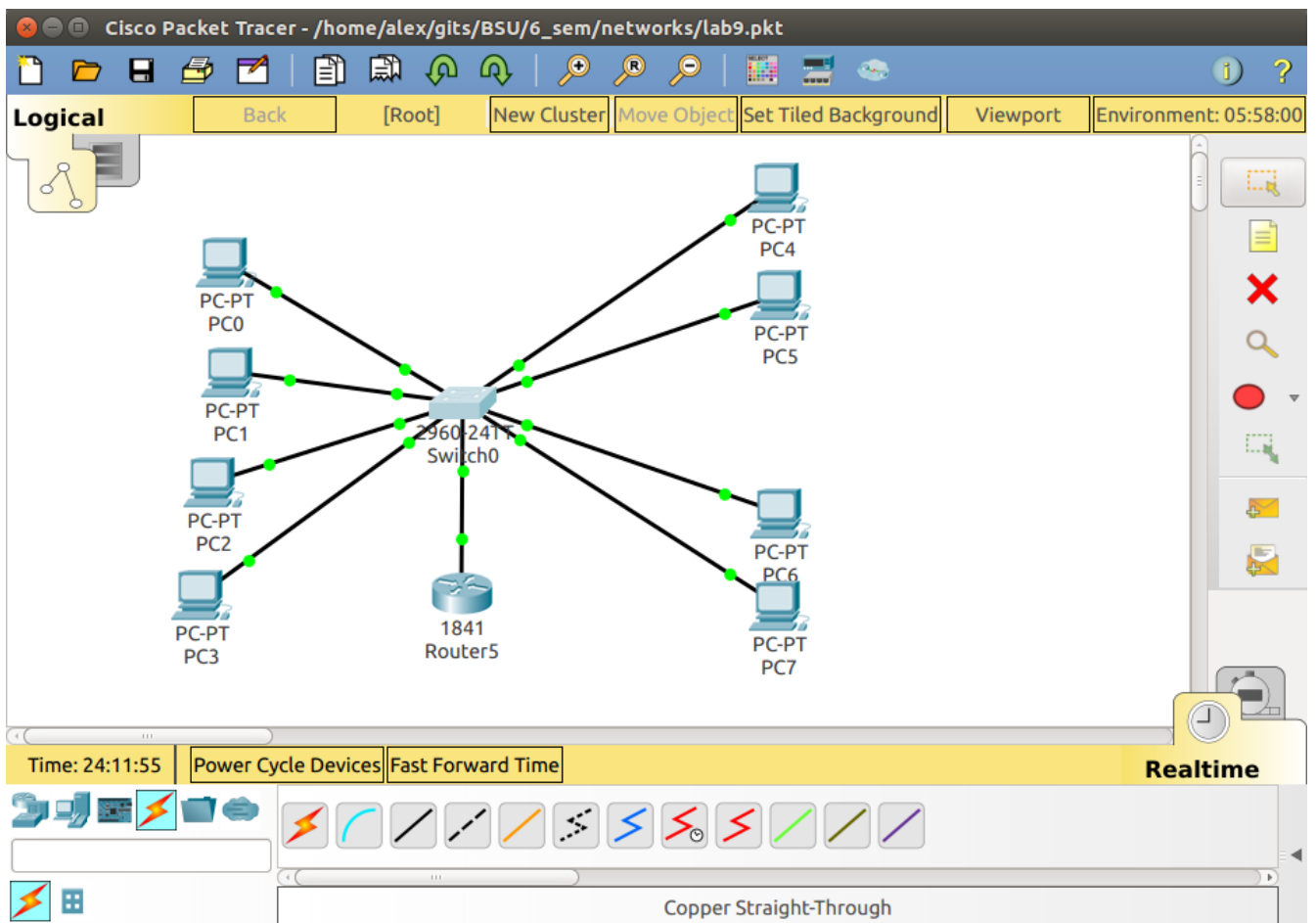Ctrl+F6 to exit CLI focus   Copy   Paste

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1) Да, все остальные порты расположены во vlan 1.
2) Fa0/5, Fa0/6
3)Fa0/7, Fa0/8
4.1) Успешно
4.2) Не успешно
4.3) Не успешно
5.1) Не доступен
5.2) Не доступен
6) Потому, что они находятся в разных сетях
7) Потому, что на данном этапе межсетевая маршрутизация ещё не настроена.

Logical

Back   [Root]   New Cluster   Move Object   Set Tiled Background   Viewport   Environment: 05:58:00

PC-PT
PC4

PC-PT
PC0

PC-PT
PC5

PC-PT
PC1

2960-24TT
Switch0

PC-PT
PC2

PC-PT
PC6

PC-PT
PC3

1841
Router5

PC-PT
PC7

Time: 24:11:55   Power Cycle Devices   Fast Forward Time   Realtime

Copper Straight-Through

Physical | Config | **CLI** | Attributes

IOS Command Line Interface

```
Router#show ip interface
FastEthernet0/0 is up, line protocol is up (connected)
  Internet address is 132.101.128.1/28
  Broadcast address is 255.255.255.255
  Address determined by setup command
  MTU is 1500 bytes
  Helper address is not set
  Directed broadcast forwarding is disabled
  Outgoing access list is not set
  Inbound  access list is not set
  Proxy ARP is enabled
  Security level is default
  Split horizon is enabled
  ICMP redirects are always sent
  ICMP unreachables are always sent
  ICMP mask replies are never sent
  IP fast switching is disabled
  IP fast switching on the same interface is disabled
  IP Flow switching is disabled
  IP Fast switching turbo vector
  IP multicast fast switching is disabled
  IP multicast distributed fast switching is disabled
  Router Discovery is disabled
  IP output packet accounting is disabled
  IP access violation accounting is disabled
  TCP/IP header compression is disabled
  RTP/IP header compression is disabled
  Probe proxy name replies are disabled
  Policy routing is disabled
  Network address translation is disabled
  BGP Policy Mapping is disabled
  Input features: MCI Check
  WCCP Redirect outbound is disabled
  WCCP Redirect inbound is disabled
  WCCP Redirect exclude is disabled
FastEthernet0/0.10 is up, line protocol is up (connected)
  Internet address is 132.101.64.1/28
  Broadcast address is 255.255.255.255
  Address determined by setup command
  MTU is 1500 bytes
  Helper address is not set
  Directed broadcast forwarding is disabled
  Outgoing access list is not set
  Inbound  access list is not set
  Proxy ARP is enabled
  Security level is default
  Split horizon is enabled
  ICMP redirects are always sent
  ICMP unreachables are always sent
  ICMP mask replies are never sent
  IP fast switching is disabled
  IP fast switching on the same interface is disabled
  IP Flow switching is disabled
  IP Fast switching turbo vector
  IP multicast fast switching is disabled
  IP multicast distributed fast switching is disabled
  Router Discovery is disabled
  IP output packet accounting is disabled
  IP access violation accounting is disabled
  TCP/IP header compression is disabled
  RTP/IP header compression is disabled
  Probe proxy name replies are disabled
  Policy routing is disabled
  Network address translation is disabled
  BGP Policy Mapping is disabled
  Input features: MCI Check
  WCCP Redirect outbound is disabled
  WCCP Redirect inbound is disabled
  WCCP Redirect exclude is disabled
FastEthernet0/0.20 is up, line protocol is up (connected)
```

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Router5

IOS Command Line Interface

```
  Network address translation is disabled
  BGP Policy Mapping is disabled
  Input features: MCI Check
  WCCP Redirect outbound is disabled
  WCCP Redirect inbound is disabled
  WCCP Redirect exclude is disabled
FastEthernet0/0.20 is up, line protocol is up (connected)
  Internet protocol processing disabled
FastEthernet0/1 is administratively down, line protocol is down (disabled)
  Internet protocol processing disabled
Vlan1 is administratively down, line protocol is down
  Internet protocol processing disabled

Router#
Router#
Router#
Router#
Router#
Router#show ip interface brief
Interface              IP-Address      OK? Method Status                 Protocol
FastEthernet0/0        132.101.128.1   YES manual up                     up
FastEthernet0/0.10     132.101.64.1    YES manual up                     up
FastEthernet0/0.20     unassigned      YES unset  up                     up
FastEthernet0/1        unassigned      YES unset  administratively down  down
Vlan1                  unassigned      YES unset  administratively down  down
Router#
```

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Router5

IOS Command Line Interface

```
Router#
Router#
Router#
Router#
Router#show ip interface brief
Interface              IP-Address      OK? Method Status                 Protocol
FastEthernet0/0        132.101.128.1   YES manual up                     up
FastEthernet0/0.10     132.101.64.1    YES manual up                     up
FastEthernet0/0.20     unassigned      YES unset  up                     up
FastEthernet0/1        unassigned      YES unset  administratively down  down
Vlan1                  unassigned      YES unset  administratively down  down
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

     132.101.0.0/28 is subnetted, 2 subnets
C       132.101.64.0 is directly connected, FastEthernet0/0.10
C       132.101.128.0 is directly connected, FastEthernet0/0

Router#
```

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