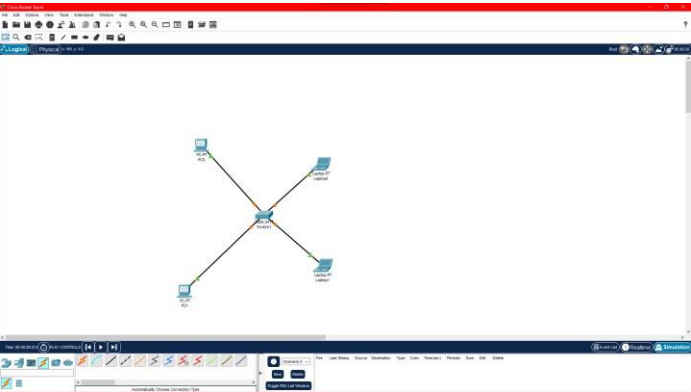
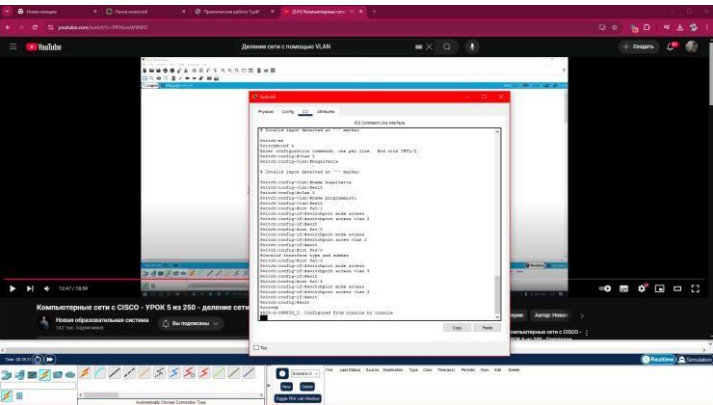


Добавим следующие устройства: • 2 ПК для программистов (PC0, PC1). • 2 ноутбука для бухгалтеров (Laptop0, Laptop1). • 1 коммутатор (Switch0):



Пропишем все команды в консоле:



Наш результат:

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch0>enable
Switch0#configure terminal
Switch0(config)#hostname Switch0
Switch0(config)#
Switch0(config)#interface FastEthernet0/24
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 1
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/23
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 2
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/22
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 3
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/21
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 4
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/20
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 5
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/19
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 6
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/18
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 7
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/17
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 8
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/16
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 9
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/15
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 10
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/14
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 11
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/13
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 12
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/12
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 13
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/11
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 14
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/10
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 15
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/9
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 16
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/8
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 17
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/7
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 18
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/6
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 19
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/5
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 20
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/4
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 21
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/3
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 22
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/2
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 23
Switch0(config-if)#exit
Switch0(config)#interface FastEthernet0/1
Switch0(config-if)#switchport mode access
Switch0(config-if)#switchport access vlan 24
Switch0(config-if)#exit
Switch0(config)#end
Switch0#
```

Switch0#show vlan

VLAN Name	Status	Ports
1 default	active	FastEthernet0/5, FastEthernet0/6, FastEthernet0/7, FastEthernet0/8, FastEthernet0/9, FastEthernet0/10, FastEthernet0/11, FastEthernet0/12, FastEthernet0/13, FastEthernet0/14, FastEthernet0/15, FastEthernet0/16, FastEthernet0/17, FastEthernet0/18, FastEthernet0/19, FastEthernet0/20, FastEthernet0/21, FastEthernet0/22, FastEthernet0/23, FastEthernet0/24
2 bugalteria	active	FastEthernet0/1, FastEthernet0/2
3 programistai	active	FastEthernet0/3, FastEthernet0/4
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddiuser-default	active	
1005 token-ring-default	active	

VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BridgeMode	Trans1	Trans2
1	enst	1000001	1500	-	-	-	-	0	0
2	enst	1000002	1500	-	-	-	-	0	0
3	enst	1000003	1500	-	-	-	-	0	0
1002	Fddi	101002	1500	-	-	-	-	0	0

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The diagram shows the same network setup as before, but with the devices labeled PC0, PC1, Laptop0, and Laptop1. The connections are as follows: PC0 is connected to the top-left port of the switch, PC1 to the top-right, Laptop0 to the bottom-left, and Laptop1 to the bottom-right.

Передадим пакеты данных как внутри вашего VLAN, так и вне его, используя симуляцию и команду ping:

