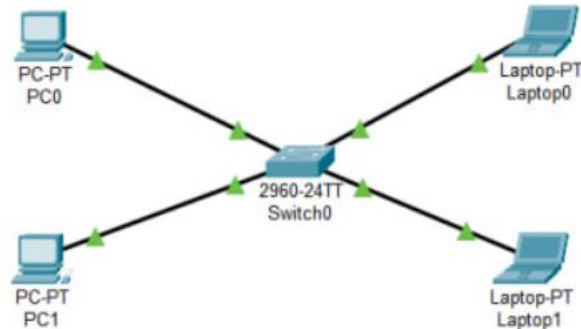
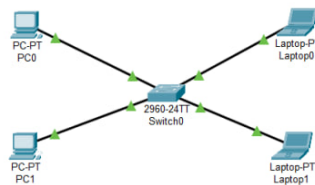


1. Создали среду 2 ПК для отдела программистов и 2 ноутбуков для отдела бухгалтеров и прописали им айди и маску и соединили их коммутатором switch



2. С помощью команд мы создали vlan 2 для отдела программистов и vlan 3 для отдела бухгалтеров и проверили



```
Switch#en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 2
Switch(config-vlan)#name programmer
Switch(config-vlan)#exit
Switch(config)#vlan 3
Switch(config-vlan)#name bugal
Switch(config-vlan)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan

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
2    programmer             active
3    bugal                  active
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    BrgMode Transl Trans2
-----
1    enet    1000001   1500    -      -      -      -      -      0      0
2    enet    1000002   1500    -      -      -      -      -      0      0
3    enet    1000003   1500    -      -      -      -      -      0      0

Switch#
```

3. Внутри vlan 2 мы добавили для первого ПК порт 0/1 для второго ПК порт 0/2

```
Switch(config)#int fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 2
Switch(config-if)#exit
Switch(config)#int fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 2
Switch(config-if)#exit
Switch(config)#
```

4. Проделали тоже для отдела бухгалтеров, внутри vlan 3

Switch#show vlan

VLAN Name	Status	Ports
1 default	active	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
2 programmer	active	Fa0/1, Fa0/2
3 bugal	active	Fa0/3, Fa0/4
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

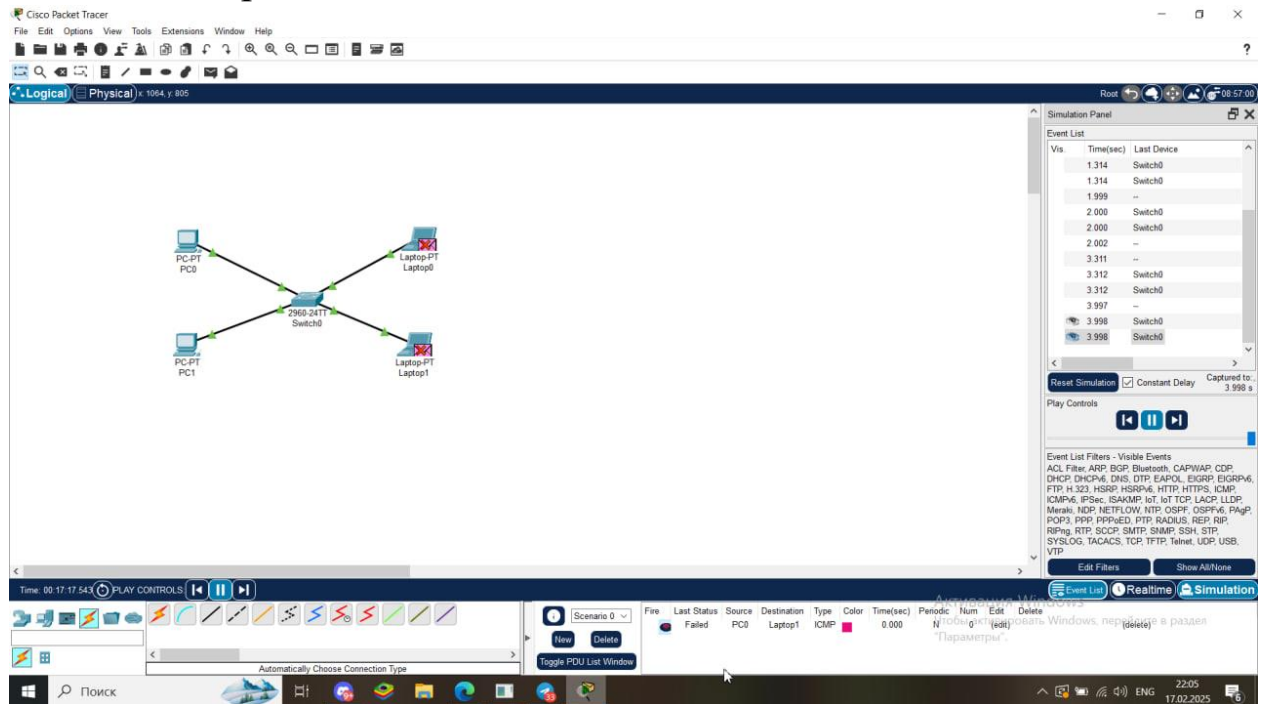
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
2	enet	100002	1500	-	-	-	-	-	0	0
3	enet	100003	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0

--More--

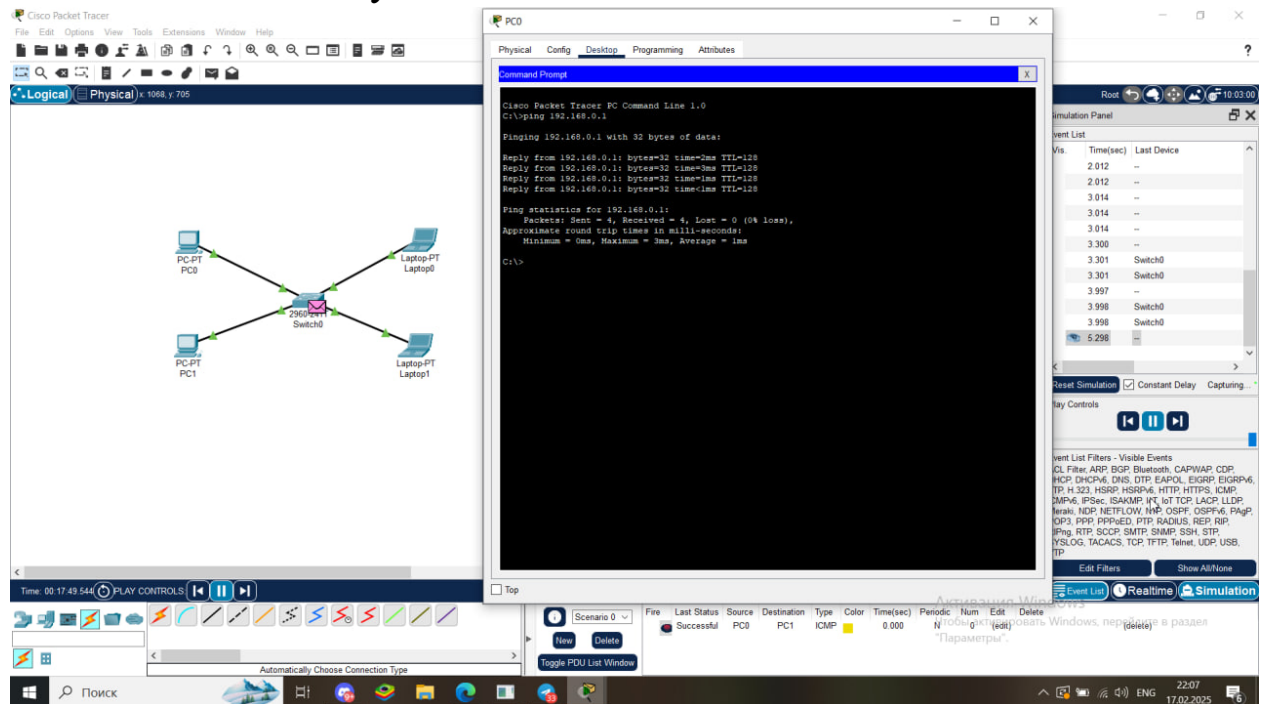
5. Мы передали пакеты данных внутри vlan

The screenshot shows the Cisco Packet Tracer interface. The main workspace displays a network topology with a central switch (2960-24TT) connected to four PCs (PC-PT PC0, PC-PT PC1, Laptop-PT Laptop0, and Laptop-PT Laptop1). The interface includes a menu bar at the top, a toolbar, and a status bar at the bottom. The Simulation Panel on the right shows an Event List with various network events and a Play Controls section with buttons for Reset Simulation, Constant Delay, and Play. The bottom status bar indicates the time is 00:17:03.548 and the simulation is running in Realtime mode.

6. Мы передали пакеты вне vlan и выдало failed



7. Так же пинганули наш комп



#я больше ничего делать не буду