

Trunk – порты SW1 – SW2:

```
interface range GigabitEthernet0/0 – 3  
switchport trunk encapsulation dot1q  
switchport trunk native vlan 333  
switchport trunk allowed vlan 20,333  
interface range GigabitEthernet1/0 – 3  
switchport trunk encapsulation dot1q  
switchport trunk native vlan 333  
switchport trunk allowed vlan 20,333
```

Trunk – порты SW3 – SW5:

```
interface range GigabitEthernet0/0 – 3  
switchport trunk encapsulation dot1q  
switchport trunk native vlan 333  
switchport trunk allowed vlan 20,333
```

Access – порты SW3 – SW5:

```
interface GigabitEthernet1/0  
switchport mode access  
switchport access vlan 20  
interface GigabitEthernet1/1  
switchport mode access  
switchport access vlan 333  
ip-адреса pc1-pc6 соответственно 192.168.1.1 – 192.168.1.6
```

PC1 - PuTTY

PC1> ping 192.168.1.2

host (192.168.1.2) not reachable

PC1> ping 192.168.1.3

84 bytes from 192.168.1.3 icmp_seq=1 ttl=64 time=11.541 ms
84 bytes from 192.168.1.3 icmp_seq=2 ttl=64 time=5.718 ms
84 bytes from 192.168.1.3 icmp_seq=3 ttl=64 time=10.279 ms
84 bytes from 192.168.1.3 icmp_seq=4 ttl=64 time=3.844 ms
84 bytes from 192.168.1.3 icmp_seq=5 ttl=64 time=7.720 ms

PC1> ping 192.168.1.4

host (192.168.1.4) not reachable

PC1> ping 192.168.1.5

84 bytes from 192.168.1.5 icmp_seq=1 ttl=64 time=5.551 ms
84 bytes from 192.168.1.5 icmp_seq=2 ttl=64 time=8.007 ms
84 bytes from 192.168.1.5 icmp_seq=3 ttl=64 time=9.057 ms
84 bytes from 192.168.1.5 icmp_seq=4 ttl=64 time=8.527 ms
84 bytes from 192.168.1.5 icmp_seq=5 ttl=64 time=5.802 ms

PC1> ping 192.168.1.6

host (192.168.1.6) not reachable

PC1>

Рисунок 1 – проверка подключения между ПК

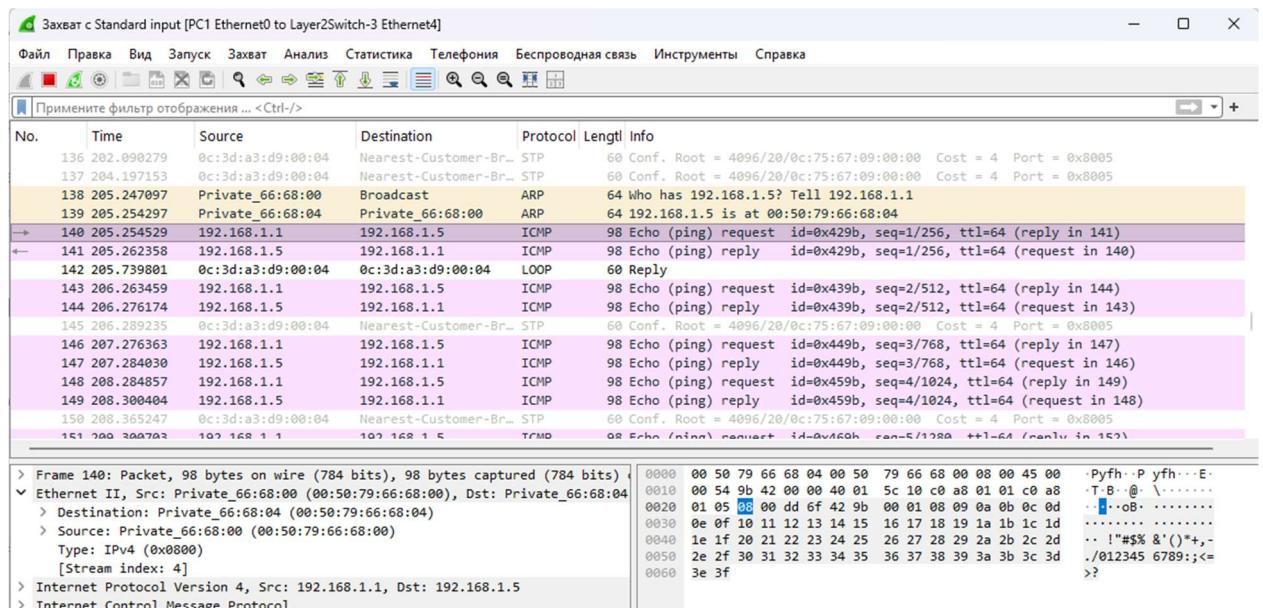


Рисунок 2 – нетегированый icmp-пакет между PC1 и SW3

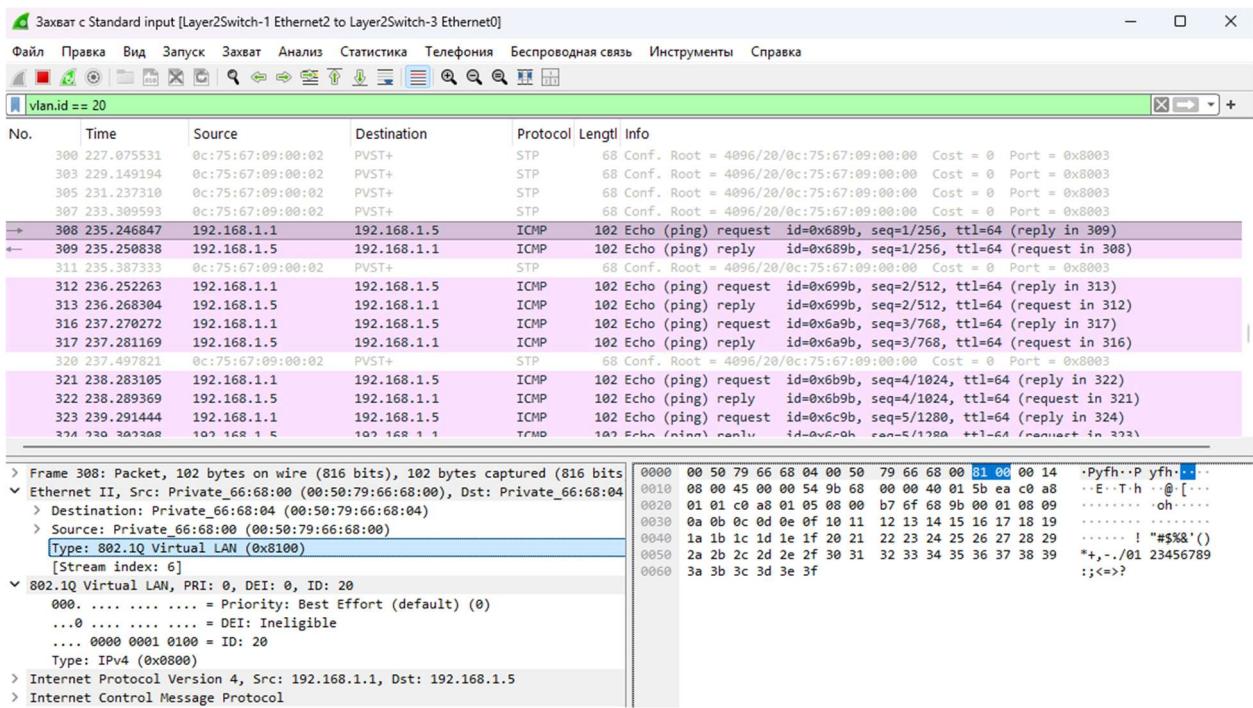


Рисунок 3 – тегированный icmp-пакет во vlan 20

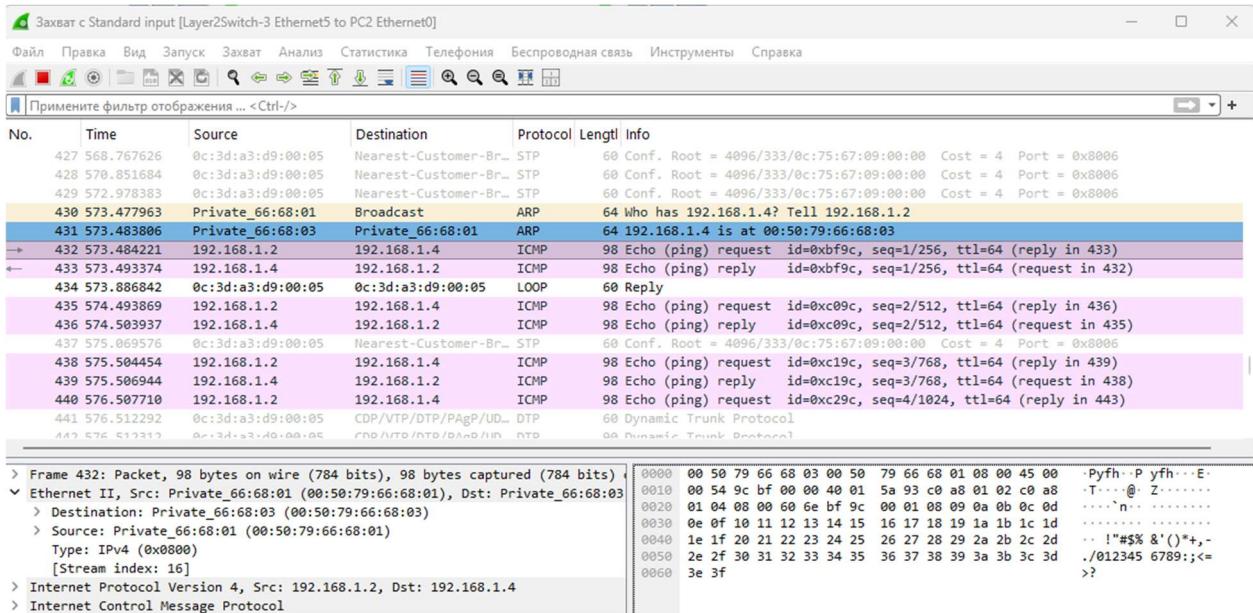


Рисунок 4 – нетегированный icmp-пакет между PC2 и SW4

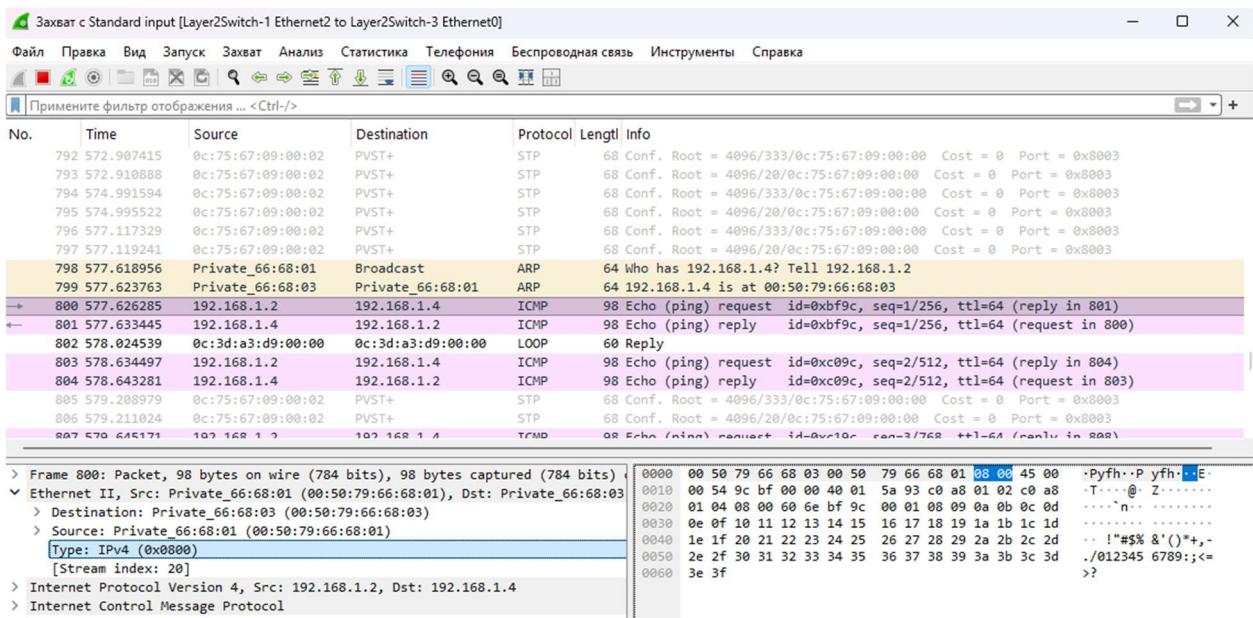


Рисунок 5 – нетегированный icmp-пакет во vlan 300

Пакеты, находящиеся во vlan 300, не тегируются, так как vlan 300 определена как native/