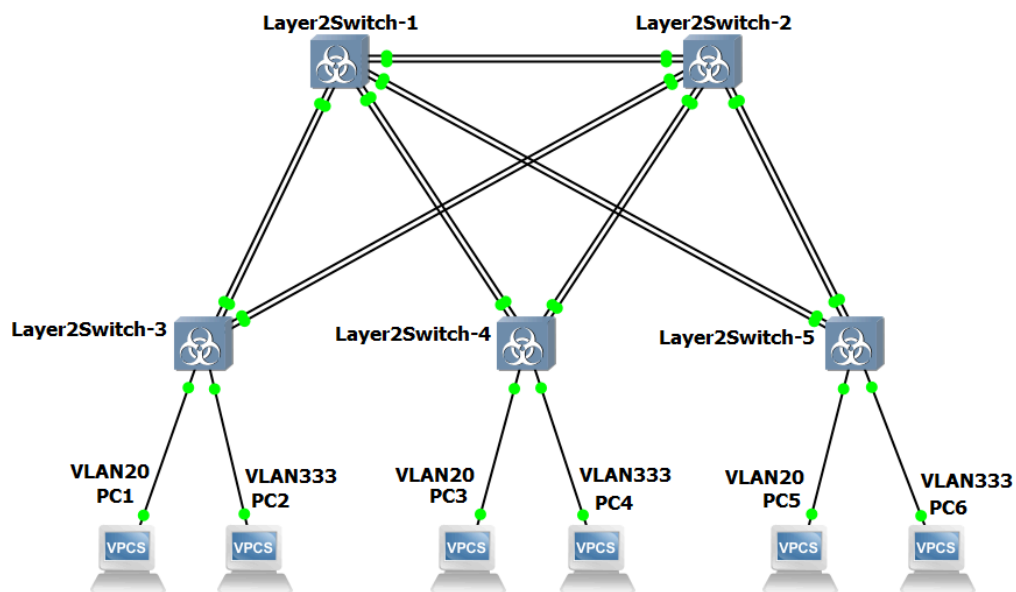


Модуль 4, Лабораторная работа 3

1) Для заданной на схеме schema-lab3 сети, состоящей из управляемых коммутаторов и персональных компьютеров настроить на коммутаторах логическую топологию используя протокол IEEE 802.1Q, для передачи пакетов VLAN333 между коммутаторами использовать Native VLAN

Созданная сеть:



Назначим VPCS адреса в диапазоне от 10.10.10.10 до 10.10.10.15 с маской 24:

ip 10.0.0.10/24

....

ip 10.0.0.15/24

Перейдем к коммутаторам 3, 4, 5 для объединения PC1,3,5 и PC2,4,6 в VLAN20, VLAN333.

Для коммутатора 1 определим передачу пакетов:

```
SW1(config)#interface range gi0/0-3,gi1/0-3
```

```
SW1(config-if-range)#switchport trunk encapsulation dot1q
SW1(config-if-range)#switchport mode trunk
SW1(config-if-range)#switchport trunk native vlan 333
SW1(config-if-range)#switchport trunk allowed vlan 20,333
```

Тоже самое для коммутатора 2:

```
SW2(config)#interface range gi0/0-3,gi1/0-3
SW2(config-if-range)#switchport trunk encapsulation dot1q
SW2(config-if-range)#switchport mode trunk
SW2(config-if-range)#switchport trunk native vlan 333
SW2(config-if-range)#switchport trunk allowed vlan 20,333
```

Коммутатор 3:

Интерфейс Gi1/0 подключен к PC1 , Gi1/1 к PC2

```
SW3(config)#interface gi1/0
SW3(config-if)#switchport mode access
SW3(config-if)#switchport access vlan 20
```

```
SW3(config)#interface gi1/1
SW3(config-if)#switchport mode access
SW3(config-if)#switchport access vlan 333
```

Интерфейсы Gi0/0-3 подключены к коммутаторам, определим передаваемые пакеты:

```
SW3(config)#interface range gi0/0-3
SW3(config-if-range)#switchport trunk encapsulation dot1q
SW3(config-if-range)#switchport mode trunk
SW3(config-if-range)#switchport trunk native vlan 333
SW3(config-if-range)#switchport trunk allowed vlan 20,333
```

```

Layer2Switch-3 - PuTTY
SW3#term len 25
SW3#sh vlan

```

VLAN	Name	Status	Ports
1	default	active	
20	VLAN20	active	Gi1/0
100	VLAN100	active	
200	VLAN0200	active	
300	VLAN0300	active	
333	VLAN333	active	Gi1/1
1002	fddi-default	act/unsup	
1003	trcrf-default	act/unsup	
1004	fddinet-default	act/unsup	
1005	trbrf-default	act/unsup	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0
100	enet	100100	1500	-	-	-	-	-	0	0
200	enet	100200	1500	-	-	-	-	-	0	0
300	enet	100300	1500	-	-	-	-	-	0	0
333	enet	100333	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	trcrf	101003	4472	1005	3276	-	-	srb	0	0

```

SW3#

```

Коммутатор 4:

Интерфейс Gi1/0 подключен к PC3 , Gi1/1 к PC4

```
SW4(config)#interface gi1/0
```

```
SW4(config-if)#switchport mode access
```

```
SW4(config-if)#switchport access vlan 20
```

```
SW4(config)#interface gi1/1
```

```
SW4(config-if)#switchport mode access
```

```
SW4(config-if)#switchport access vlan 333
```

Интерфейсы Gi0/0-3 подключены к коммутаторам, определим передаваемые пакеты:

```
SW4(config)#interface range gi0/0-3
```

SW4(config-if-range)#switchport trunk encapsulation dot1q

SW4(config-if-range)#switchport mode trunk

SW4(config-if-range)#switchport trunk native vlan 333

SW4(config-if-range)#switchport trunk allowed vlan 20,333

Layer2Switch-4 - PuTTY

```
SW4#sh vlan
```

VLAN	Name	Status	Ports
1	default	active	
20	VLAN20	active	Gi1/0
100	VLAN100	active	
200	VLAN0200	active	
300	VLAN0300	active	
333	VLAN333	active	Gi1/1
1002	fddi-default	act/unsup	
1003	trcrf-default	act/unsup	
1004	fddinet-default	act/unsup	
1005	trbrf-default	act/unsup	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0
100	enet	100100	1500	-	-	-	-	-	0	0
200	enet	100200	1500	-	-	-	-	-	0	0
300	enet	100300	1500	-	-	-	-	-	0	0
333	enet	100333	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	trcrf	101003	4472	1005	3276	-	-	srb	0	0

Коммутатор 5:

Интерфейс Gi1/0 подключен к PC5 , Gi1/1 к PC6

SW5(config)#interface gi1/0

SW5(config-if)#switchport mode access

SW5(config-if)#switchport access vlan 20

SW5(config)#interface gi1/1

SW5(config-if)#switchport mode access

SW5(config-if)#switchport access vlan 333

Интерфейсы Gi0/0-3 подключены к коммутаторам, определим передаваемые пакеты:

```
SW5(config)#interface range gi0/0-3
```

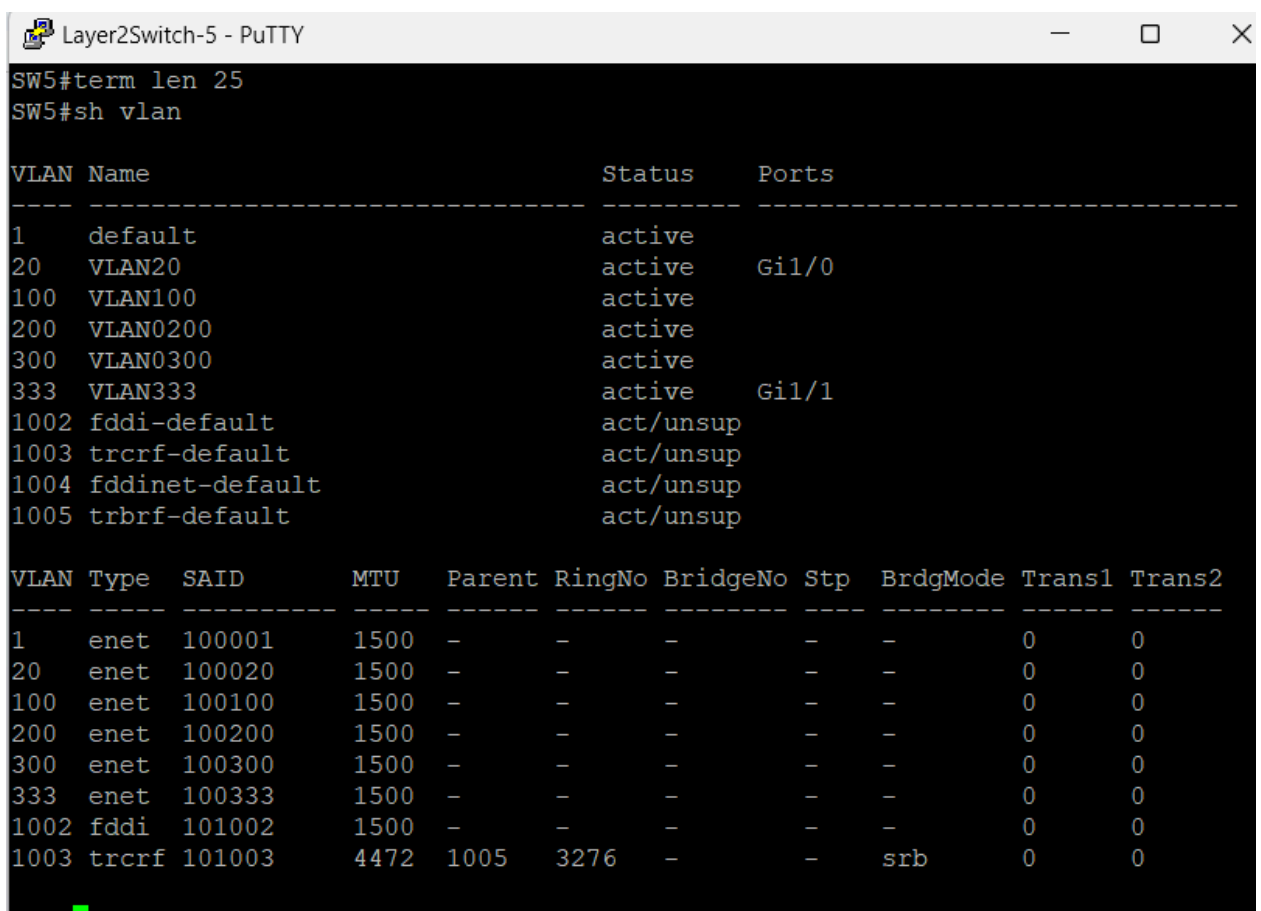
```
SW5(config-if-range)#
```

```
SW5(config-if-range)#switchport trunk encapsulation dot1q
```

```
SW5(config-if-range)#switchport mode trunk
```

```
SW5(config-if-range)#switchport trunk native vlan 333
```

```
SW5(config-if-range)#switchport trunk allowed vlan 20,333
```



```
SW5#term len 25
SW5#sh vlan
```

VLAN	Name	Status	Ports
1	default	active	
20	VLAN20	active	Gi1/0
100	VLAN100	active	
200	VLAN0200	active	
300	VLAN0300	active	
333	VLAN333	active	Gi1/1
1002	fddi-default	act/unsup	
1003	trcrf-default	act/unsup	
1004	fddinet-default	act/unsup	
1005	trbrf-default	act/unsup	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0
100	enet	100100	1500	-	-	-	-	-	0	0
200	enet	100200	1500	-	-	-	-	-	0	0
300	enet	100300	1500	-	-	-	-	-	0	0
333	enet	100333	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	trcrf	101003	4472	1005	3276	-	-	srb	0	0

2) Проверить доступность персональных компьютеров, находящихся в одинаковых VLAN и недоступность находящихся в различных, результаты задокументировать

Проверка доступа PC1 к PC3, PC5 и недоступности PC2, PC4, PC6

```
PC1 - PuTTY

PC1> ping 10.0.0.12

84 bytes from 10.0.0.12 icmp_seq=1 ttl=64 time=8.600 ms
84 bytes from 10.0.0.12 icmp_seq=2 ttl=64 time=7.092 ms
84 bytes from 10.0.0.12 icmp_seq=3 ttl=64 time=8.254 ms
84 bytes from 10.0.0.12 icmp_seq=4 ttl=64 time=6.766 ms
84 bytes from 10.0.0.12 icmp_seq=5 ttl=64 time=2.193 ms

PC1> ping 10.0.0.11

host (10.0.0.11) not reachable

PC1> ping 10.0.0.13

host (10.0.0.13) not reachable

PC1> ping 10.0.0.14

84 bytes from 10.0.0.14 icmp_seq=1 ttl=64 time=8.457 ms
84 bytes from 10.0.0.14 icmp_seq=2 ttl=64 time=8.412 ms
84 bytes from 10.0.0.14 icmp_seq=3 ttl=64 time=8.758 ms
84 bytes from 10.0.0.14 icmp_seq=4 ttl=64 time=5.784 ms
84 bytes from 10.0.0.14 icmp_seq=5 ttl=64 time=8.311 ms

PC1> ping 10.0.0.15

host (10.0.0.15) not reachable

PC1> █
```

Проверка доступа PC4 к PC2, PC6 и недоступности PC1, PC3, PC5

```
PC4 - PuTTY

PC4> ping 10.0.0.10

host (10.0.0.10) not reachable

PC4> ping 10.0.0.11

84 bytes from 10.0.0.11 icmp_seq=1 ttl=64 time=9.961 ms
84 bytes from 10.0.0.11 icmp_seq=2 ttl=64 time=3.774 ms
84 bytes from 10.0.0.11 icmp_seq=3 ttl=64 time=5.860 ms
84 bytes from 10.0.0.11 icmp_seq=4 ttl=64 time=7.284 ms
84 bytes from 10.0.0.11 icmp_seq=5 ttl=64 time=10.798 ms

PC4> ping 10.0.0.12

host (10.0.0.12) not reachable

PC4> ping 10.0.0.13

10.0.0.13 icmp_seq=1 ttl=64 time=0.001 ms
10.0.0.13 icmp_seq=2 ttl=64 time=0.001 ms
10.0.0.13 icmp_seq=3 ttl=64 time=0.001 ms
10.0.0.13 icmp_seq=4 ttl=64 time=0.001 ms
10.0.0.13 icmp_seq=5 ttl=64 time=0.001 ms

PC4> ping 10.0.0.14

host (10.0.0.14) not reachable

PC4> ping 10.0.0.15

84 bytes from 10.0.0.15 icmp_seq=1 ttl=64 time=4.794 ms
84 bytes from 10.0.0.15 icmp_seq=2 ttl=64 time=5.019 ms
84 bytes from 10.0.0.15 icmp_seq=3 ttl=64 time=5.831 ms
84 bytes from 10.0.0.15 icmp_seq=4 ttl=64 time=3.138 ms
84 bytes from 10.0.0.15 icmp_seq=5 ttl=64 time=7.890 ms

PC4> █
```

3) Перехватить в Wireshark пакеты с тегами и без тегов, результаты задокументировать

Захват пакета с тегом (передача от PC1 к PC3):

*Standard input [Layer2Switch-1 Ethernet4 to Layer2Switch-4 Ethernet0]

ФайлПравкаВидЗапускЗахватАнализСтатистикаТелефонияБеспроводная связьИнструментыСправка

▼vlan

No.	Time	Source	Destination	Protocol	Length	Info
913	675.277565	0c:26:42:59:00:00	PVST+	STP	68	Conf. Root = 32768/20/0c:26:42:59:00:00 Cost = 0 Port = 0x8001
914	675.721720	Private_66:68:00	Broadcast	ARP	68	Who has 10.0.0.12? Tell 10.0.0.10
915	675.722889	Private_66:68:02	Private_66:68:00	ARP	68	10.0.0.12 is at 00:50:79:66:68:02
→ 916	675.725326	10.0.0.10	10.0.0.12	ICMP	102	Echo (ping) request id=0x9bad, seq=1/256, ttl=64 (reply in 917)
← 917	675.731351	10.0.0.12	10.0.0.10	ICMP	102	Echo (ping) reply id=0x9bad, seq=1/256, ttl=64 (request in 916)
918	676.059214	0c:26:42:59:00:00	PVST+	STP	68	Conf. Root = 32768/333/0c:26:42:59:00:00 Cost = 0 Port = 0x8001
919	676.733124	10.0.0.10	10.0.0.12	ICMP	102	Echo (ping) request id=0x9cad, seq=2/512, ttl=64 (reply in 920)
920	676.739477	10.0.0.12	10.0.0.10	ICMP	102	Echo (ping) reply id=0x9cad, seq=2/512, ttl=64 (request in 919)
921	677.277305	0c:26:42:59:00:00	PVST+	STP	68	Conf. Root = 32768/20/0c:26:42:59:00:00 Cost = 0 Port = 0x8001
922	677.753250	10.0.0.10	10.0.0.12	ICMP	102	Echo (ping) request id=0x9dad, seq=3/768, ttl=64 (reply in 923)
923	677.757064	10.0.0.12	10.0.0.10	ICMP	102	Echo (ping) reply id=0x9dad, seq=3/768, ttl=64 (request in 922)
924	677.847974	0c:26:42:59:00:00	CDP/VTP/DTP/PAgP/UD...	DTP	62	Dynamic Trunk Protocol
925	678.058914	0c:26:42:59:00:00	PVST+	STP	68	Conf. Root = 32768/333/0c:26:42:59:00:00 Cost = 0 Port = 0x8001
927	678.758418	10.0.0.10	10.0.0.12	ICMP	102	Echo (ping) request id=0x9ead, seq=4/1024, ttl=64 (reply in 928)
928	678.764992	10.0.0.12	10.0.0.10	ICMP	102	Echo (ping) reply id=0x9ead, seq=4/1024, ttl=64 (request in 927)
929	679.276946	0c:26:42:59:00:00	PVST+	STP	68	Conf. Root = 32768/20/0c:26:42:59:00:00 Cost = 0 Port = 0x8001
930	679.767020	10.0.0.10	10.0.0.12	ICMP	102	Echo (ping) request id=0x9fad, seq=5/1280, ttl=64 (reply in 931)

▶ Frame 916: 102 bytes on wire (816 bits), 102 bytes captured (816 bits) on inter...
▶ Ethernet II, Src: Private_66:68:00 (00:50:79:66:68:00), Dst: Private_66:68:02 (...)
▼ 802.1Q Virtual LAN, PRI: 0, DEI: 0, ID: 20
0000 = Priority: Best Effort (default) (0)
...0 = DEI: Ineligible
....0000 0001 0100 = ID: 20
Type: IPv4 (0x0800)
▶ Internet Protocol Version 4, Src: 10.0.0.10, Dst: 10.0.0.12
▶ Internet Control Message Protocol

0000 00 50 79 66 68 02 00 50 79 66 68 00 81 00 00 14 Pyfh P yfh....
0010 08 00 45 00 00 54 ad 9b 00 00 40 01 b8 f8 0a 00 ..E.T...@....
0020 00 0a 0a 00 00 0c 08 00 84 5d 9b ad 00 01 08 09]
0030 0a 0b 0c 0d 0e 0f 10 11 12 13 14 15 16 17 18 19
0040 1a 1b 1c 1d 1e 1f 20 21 22 23 24 25 26 27 28 29! "##\$%&'()
0050 2a 2b 2c 2d 2e 2f 30 31 32 33 34 35 36 37 38 39 *+,-./01 23456789
0060 3a 3b 3c 3d 3e 3f ;<=>?

Захват пакета с без тега (передача от PC4 к PC6):

*Standard input [Layer2Switch-1 Ethernet2 to Layer2Switch-3 Ethernet0]

ФайлПравкаВидЗапускЗахватАнализСтатистикаТелефонияБеспроводная связьИнструментыСправка

▼vlan

No.	Time	Source	Destination	Protocol	Length	Info
11	7.641949	0c:84:49:f9:00:02	0c:84:49:f9:00:02	LOOP	60	Reply
23	17.642364	0c:84:49:f9:00:02	0c:84:49:f9:00:02	LOOP	60	Reply
45	27.640918	0c:84:49:f9:00:02	0c:84:49:f9:00:02	LOOP	60	Reply
68	37.640530	0c:84:49:f9:00:02	0c:84:49:f9:00:02	LOOP	60	Reply
56	32.413528	0c:a0:18:d3:00:00	DEC-MOP-Remote-Cons...	0x6002	77	DEC DNA Remote Console
57	32.414974	0c:a0:18:d3:00:01	DEC-MOP-Remote-Cons...	0x6002	77	DEC DNA Remote Console
58	32.416394	0c:a0:18:d3:00:02	DEC-MOP-Remote-Cons...	0x6002	77	DEC DNA Remote Console
59	32.416489	0c:a0:18:d3:00:03	DEC-MOP-Remote-Cons...	0x6002	77	DEC DNA Remote Console
3	0.905668	0c:e5:9c:55:00:00	CDP/VTP/DTP/PAgP/UD...	CDP	421	Device ID: SW3 Port ID: GigabitEthernet0/0
6	3.041588	0c:e5:9c:55:00:00	0c:e5:9c:55:00:00	LOOP	60	Reply
18	13.043027	0c:e5:9c:55:00:00	0c:e5:9c:55:00:00	LOOP	60	Reply
30	23.042576	0c:e5:9c:55:00:00	0c:e5:9c:55:00:00	LOOP	60	Reply
61	33.044032	0c:e5:9c:55:00:00	0c:e5:9c:55:00:00	LOOP	60	Reply
75	43.043522	0c:e5:9c:55:00:00	0c:e5:9c:55:00:00	LOOP	60	Reply
→ 36	24.985037	10.0.0.11	10.0.0.13	ICMP	98	Echo (ping) reply id=0x02ab, seq=1/256, ttl=64 (request in 35)
38	25.998304	10.0.0.11	10.0.0.13	ICMP	98	Echo (ping) reply id=0x03ab, seq=2/512, ttl=64 (request in 37)
43	27.009423	10.0.0.11	10.0.0.13	ICMP	98	Echo (ping) reply id=0x04ab, seq=3/768, ttl=64 (request in 42)

▶ Frame 36: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface ..., id 0
▶ Ethernet II, Src: Private_66:68:01 (00:50:79:66:68:01), Dst: Private_66:68:03 (00:50:79:66:68:03)
▶ Internet Protocol Version 4, Src: 10.0.0.11, Dst: 10.0.0.13
▶ Internet Control Message Protocol

0000 00 50 79 66 68 03 00 50 79 66 68 01 08 00 45 00
0010 00 54 ab 02 00 00 40 01 bb 8f 0a 00 00 0b 0a 00
0020 00 0d 00 00 25 60 02 ab 00 01 08 09 0a 0b 0c 0d
0030 0e 0f 10 11 12 13 14 15 16 17 18 19 1a 1b 1c 1d
0040 1e 1f 20 21 22 23 24 25 26 27 28 29 2a 2b 2c 2d
0050 2e 2f 30 31 32 33 34 35 36 37 38 39 3a 3b 3c 3d
0060 3e 3f

4) Сохранить файлы конфигураций устройств в виде набора файлов с именами, соответствующими именам устройств

папка config

5*) Опциональное задание: Добавить в схему маршрутизатор, подключенный к коммутаторам Layer2Switch1 и Layer2Switch2, настроить через него маршрутизацию между VLAN

Настройка маршрутизатора:

```
R1(config-if)#interface fa0/0.2
```

```
R1(config-subif)#encapsulation dot1Q 20
```

```
R1(config-subif)#ip address 10.0.20.1 255.255.255.0
```

```
R1(config)#interface fa1/0.333
```

```
R1(config-subif)#encapsulation dot1Q 333
```

```
R1(config-subif)#ip address 10.0.33.1 255.255.255.0
```

```
R1#show ip interface brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	unassigned	YES	unset	up	up
FastEthernet0/0.2	10.0.20.1	YES	manual	up	up
FastEthernet0/0.333	unassigned	YES	manual	deleted	down
FastEthernet1/0	unassigned	YES	unset	up	up
FastEthernet1/0.333	10.0.33.1	YES	manual	up	up
Ethernet2/0	unassigned	YES	unset	administratively down	down
Ethernet2/1	unassigned	YES	unset	administratively down	down
Ethernet2/2	unassigned	YES	unset	administratively down	down
Ethernet2/3	unassigned	YES	unset	administratively down	down
Serial3/0	unassigned	YES	unset	administratively down	down
Serial3/1	unassigned	YES	unset		

Настройка коммутаторов SW1, SW2

```
SW1(config)#interface gi2/0
```

```
SW1(config-if)#switchport trunk encapsulation dot1q
```

```
SW1(config-if)#switchport mode trunk
```

```
SW1(config-if)#switchport trunk allowed vlan 20,333
```

```
SW2(config)#interface gi2/0
```

```
SW2(config-if)#switchport trunk encapsulation dot1q
```

```
SW2(config-if)#switchport mode trunk
```

```
SW2(config-if)# switchport trunk allowed vlan 20,333
```

Настройка компьютеров в сети:

PC1> ip 10.0.20.10/24 10.0.20.1

Checking for duplicate address...

PC1 : 10.0.20.10 255.255.255.0 gateway 10.0.20.1

PC2> ip 10.0.33.11/24 10.0.33.1

Checking for duplicate address...

PC2 : 10.0.33.11 255.255.255.0 gateway 10.0.33.1

PC3> ip 10.0.20.12/24 10.0.20.1

Checking for duplicate address...

PC3 : 10.0.20.12 255.255.255.0 gateway 10.0.20.1

PC4> ip 10.0.33.13/24 10.0.33.1

Checking for duplicate address...

PC4 : 10.0.33.13 255.255.255.0 gateway 10.0.33.1

PC5> ip 10.0.20.14/24 10.0.20.1

Checking for duplicate address...

PC5 : 10.0.20.14 255.255.255.0 gateway 10.0.20.1

PC6> ip 10.0.33.15/24 10.0.33.1

Checking for duplicate address...

PC6 : 10.0.33.15 255.255.255.0 gateway 10.0.33.1

Проверка связи ПК1 с ПК2 и ПК3

```
PC1> ping 10.0.33.11

84 bytes from 10.0.33.11 icmp_seq=1 ttl=63 time=15.785 ms
84 bytes from 10.0.33.11 icmp_seq=2 ttl=63 time=25.613 ms
84 bytes from 10.0.33.11 icmp_seq=3 ttl=63 time=14.901 ms
84 bytes from 10.0.33.11 icmp_seq=4 ttl=63 time=19.936 ms
84 bytes from 10.0.33.11 icmp_seq=5 ttl=63 time=20.493 ms

PC1> ping 10.0.20.12

84 bytes from 10.0.20.12 icmp_seq=1 ttl=64 time=9.020 ms
84 bytes from 10.0.20.12 icmp_seq=2 ttl=64 time=3.971 ms
84 bytes from 10.0.20.12 icmp_seq=3 ttl=64 time=5.054 ms
84 bytes from 10.0.20.12 icmp_seq=4 ttl=64 time=15.678 ms
84 bytes from 10.0.20.12 icmp_seq=5 ttl=64 time=2.693 ms
```

Проверка связи ПК3 с ПК4 и ПК5

```
PC3> ping 10.0.33.13

10.0.33.13 icmp_seq=1 timeout
84 bytes from 10.0.33.13 icmp_seq=2 ttl=63 time=19.517 ms
84 bytes from 10.0.33.13 icmp_seq=3 ttl=63 time=21.405 ms
84 bytes from 10.0.33.13 icmp_seq=4 ttl=63 time=19.103 ms
84 bytes from 10.0.33.13 icmp_seq=5 ttl=63 time=24.816 ms

PC3> ping 10.0.20.14

84 bytes from 10.0.20.14 icmp_seq=1 ttl=64 time=8.237 ms
84 bytes from 10.0.20.14 icmp_seq=2 ttl=64 time=15.884 ms
84 bytes from 10.0.20.14 icmp_seq=3 ttl=64 time=15.641 ms
84 bytes from 10.0.20.14 icmp_seq=4 ttl=64 time=7.670 ms
84 bytes from 10.0.20.14 icmp_seq=5 ttl=64 time=1.920 ms
```

Проверка связи ПК6 с ПК2 и ПК5

```
PC6> ping 10.0.20.14
```

```
84 bytes from 10.0.20.14 icmp_seq=1 ttl=63 time=40.492 ms  
84 bytes from 10.0.20.14 icmp_seq=2 ttl=63 time=15.323 ms  
84 bytes from 10.0.20.14 icmp_seq=3 ttl=63 time=14.952 ms  
84 bytes from 10.0.20.14 icmp_seq=4 ttl=63 time=14.866 ms  
84 bytes from 10.0.20.14 icmp_seq=5 ttl=63 time=25.447 ms
```

```
PC6> ping 10.0.33.11
```

```
84 bytes from 10.0.33.11 icmp_seq=1 ttl=64 time=3.561 ms  
84 bytes from 10.0.33.11 icmp_seq=2 ttl=64 time=6.961 ms  
84 bytes from 10.0.33.11 icmp_seq=3 ttl=64 time=10.942 ms  
84 bytes from 10.0.33.11 icmp_seq=4 ttl=64 time=7.065 ms  
84 bytes from 10.0.33.11 icmp_seq=5 ttl=64 time=4.179 ms
```