Packet Tracer.

		IP-	
S1	VLAN 1	192.168.1.253	255.255.255.0
S2	VLAN 1	192.168.1.254	255.255.255.0
PC1	NIC	192.168.1.1	255.255.255.0
PC2	NIC	192.168.1.2	255.255.255.0

1. \$1 \$2

2.

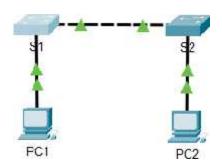
3.

IP. IP, show, , ping

1.

S1 S2

Топология сети:



Войдем в привилегированный режим->режим глобальной настройки и изменим имя хоста в консоли S1:

1. S1 Switch>enable Switch#conf Switch#configure Configuring from terminal, memory, or network [terminal]? Enter configuration commands, one per line. End with CNTL/Z. Switch (config) #hostname Sl 2. EXEC. Поставим пароль на консоль и пароль для привилегированного режима: Switch (config) #hostname S1 S1(config) #line console 0 S1(config-line) #password cisco S1(config-line) #login S1(config-line) #exit S1(config) #enable secret class **S1.** 3. Введем пароль: User Access Verification Password: Password: Password: S1> ? Cisco ?

Class

4. (MOTD).

Перейдем в режим глобальной конфигурации и настроим объявление при попытке несанкционированного доступа:

```
S1>enable
Password:
S1#conf
S1#configure
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
S1(config) #banner motd Authorized access only!!!
Enter TEXT message. End with the character 'A'.

S1(config) #banner motd
% Incomplete command.
S1(config) #banner motd WARNING!
Enter TEXT message. End with the character 'W'.
WARNING!
```

5. (NVRAM)

Сохраним настройки:

Sl#copy running-config startup-config Destination filename [startup-config]? Building configuration...

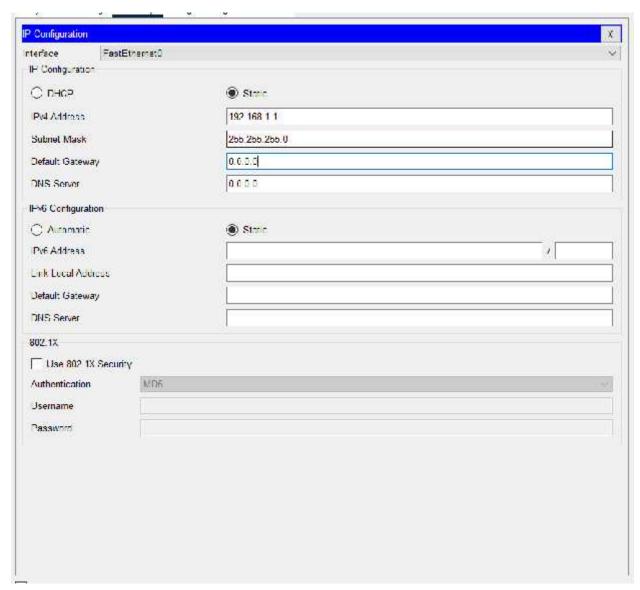
6. 1 5 S2.

Проделаем те же шаги с S2

2.

1. IP-

Настроим ір рс1:



Настройки РС2 аналогичны

2.

Выполним ping запрос к S1 с PC1

?

```
Pinging 192.168.1.253 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.1.253:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

3.

1. IP- S1

Hастроим S1

```
Sl configure
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/2.
Sl(config) #interface vlan 1
Sl(config-if) #ip address 192.168.1.253 255.255.255.0

% Invalid input detected at '^' marker.

Sl(config-if) #ip address 192.168.1.253 255.255.255.0
Sl(config-if) # no shutdown

Sl(config-if) #
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO S UPDOWN: Line protocol on Interface Vlan1, changed state to up
```

no shutdown?

no Negate a command or set its defaults shutdown Shutdown the selected interface

Не отключает интерфейс

Сохраним настройки и проверим ір:

```
Slfcopy running-config startup-config
Distination filename [startup config]?
 Building configuration ...
 FORT.
Sl#show ip interface brisf
                             IP-Address
 Interface
                                                                   OR? Method Status
                                                                                                                                Protocol
FastEthernet0/1 unassigned
FastEthernet0/2 unassigned
FastEthernet0/3 unassigned
FastEthernet0/4 unassigned
FastEthernet0/5 unassigned
FastEthernet0/6 unassigned
                                                                   YES manual up
                                                                                                                                 up
                                        unassigned
                                                                                                                                  up
                                                                   YES manual down
                                                                                                                                 down
                                                                   YES manual down
                                                                                                                                 down
                                                                   YES manual down
YES manual down
                                                                                                                                 down
FastEthernet0/6 unassigned
FastEthernet0/8 unassigned
FastEthernet0/9 unassigned
                                                                                                                                 rlimen.
                                                                   YES manual down
                                                                                                                                 down
                                                                    YES manual down
                                                                                                                                 chemen
FastEthernet0/9 unassigned fastEthernet0/10 unassigned unassigned fastEthernet0/11 unassigned fastEthernet0/12 unassigned fastEthernet0/13 unassigned fastEthernet0/14 unassigned fastEthernet0/16 unassigned fastEthernet0/16 unassigned fastEthernet0/17 unassigned fastEthernet0/18 unassigned fastEthernet0/19 unassigned fastEthernet0/19 unassigned fastEthernet0/20 unassigned fastEthernet0/21 unassigned fastEthernet0/21 unassigned fastEthernet0/22 unassigned fastEthernet0/22 unassigned fastEthernet0/23 unassigned fastEthernet0/23 unassigned
                                                                                                                                  down
                                                                     YES manual down
                                                                    YES manual down
                                                                                                                                 down
                                                                   YES manual down
                                                                                                                                 down
                                                                   YES manual down
                                                                                                                                 down
                                                                                                                                 down
                                                                   YES manual down
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                                                                   YES manual down
                                                                                                                                 down
                                                                    YES manual down
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                                                                                                                                 down
                                                                   YES manual down
                                                                                                                                 down
                                                                   YES manual down
                                                                                                                                 down
                                                                  YES manual down
YES manual down
                                                                                                                                 down
                                                                                                                                 down
                                                                   YES manual down
                                                                                                                                 down
 FastEthernet0/20
                                   unassigned
                                                                   YES manual down
YES manual down
                                                                                                                                 down
FastEthernet0/24 unassigned YES manual down GigabitEthernet0/1 unassigned YES manual down GigabitEthernet0/2 unassigned YES manual down
                                                                                                                                 down
                                                                                                                                 down
                                                                                                                                 down
                                        192.168.1.253 YES manual up
 Vlanl
                                                                                                                                  UU.
314
```

Проверьте связь с IP-адресом компьютера PC2 с помощью команды ping.

```
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<lms TTL=128
Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms</pre>
```

Проверьте связь с IP-адресом коммутатора S1 с помощью команды ping.

```
C:\>ping 192.168.1.253

Pinging 192.168.1.253 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.253: bytes=32 time<lms TTL=255
Reply from 192.168.1.253: bytes=32 time<lms TTL=255
Reply from 192.168.1.253: bytes=32 time<lms TTL=255

Ping statistics for 192.168.1.253:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms</pre>
```

Проверьте связь с IP-адресом коммутатора S2 с помощью команды ping.

```
C:\>ping 192.168.1.254

Pinging 192.168.1.254 with 32 bytes of data:

Request timed out.

Reply from 192.168.1.254: bytes=32 time<lms TTL=255

Reply from 192.168.1.254: bytes=32 time<lms TTL=255

Reply from 192.168.1.254: bytes=32 time<lms TTL=255

Ping statistics for 192.168.1.254:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = Oms, Average = Oms
```

Проделаем те же операции с РС2

PC2-PC1

```
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<lms TTL=128

Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = Oms, Average = Oms
```

PC2-S1

```
C:\>ping 192.168.1.253

Pinging 192.168.1.253 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.253: bytes=32 time<lms TTL=255
Reply from 192.168.1.253: bytes=32 time<lms TTL=255
Reply from 192.168.1.253: bytes=32 time<lms TTL=255
Ping statistics for 192.168.1.253:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms</pre>
```

PC2-S2

```
C:\>ping 192.168.1.254

Pinging 192.168.1.254 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.254: bytes=32 time<lms TTL=255
Reply from 192.168.1.254: bytes=32 time<lms TTL=255
Reply from 192.168.1.254: bytes=32 time<lms TTL=255

Ping statistics for 192.168.1.254:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms</pre>
```

```
устройства S1: S1-PC1
S1>ping 192.168.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2 seconds:
11111
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/1/8 ms
S1-PC2
S1>ping 192.168.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.2, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
S1-S2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.254, timeout is 2 seconds:
11111
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
Аналогично
для S2: S2-
PC1
 $2>ping 192.168.1.1
 Type escape sequence to abort.
 Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2 seconds:
 Success rate is 100 percent (5/5), round-trip min/avg/max = 0/1/5 ms
S2-PC2
S2>ping 192.168.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.2, timeout is 2 seconds:
11111
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
S2-S1
52>ping 192.168.1.253
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.253, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
```

Biogram of bayons and a participate of the stranger of the str

Проверим подключение при помощи ping с