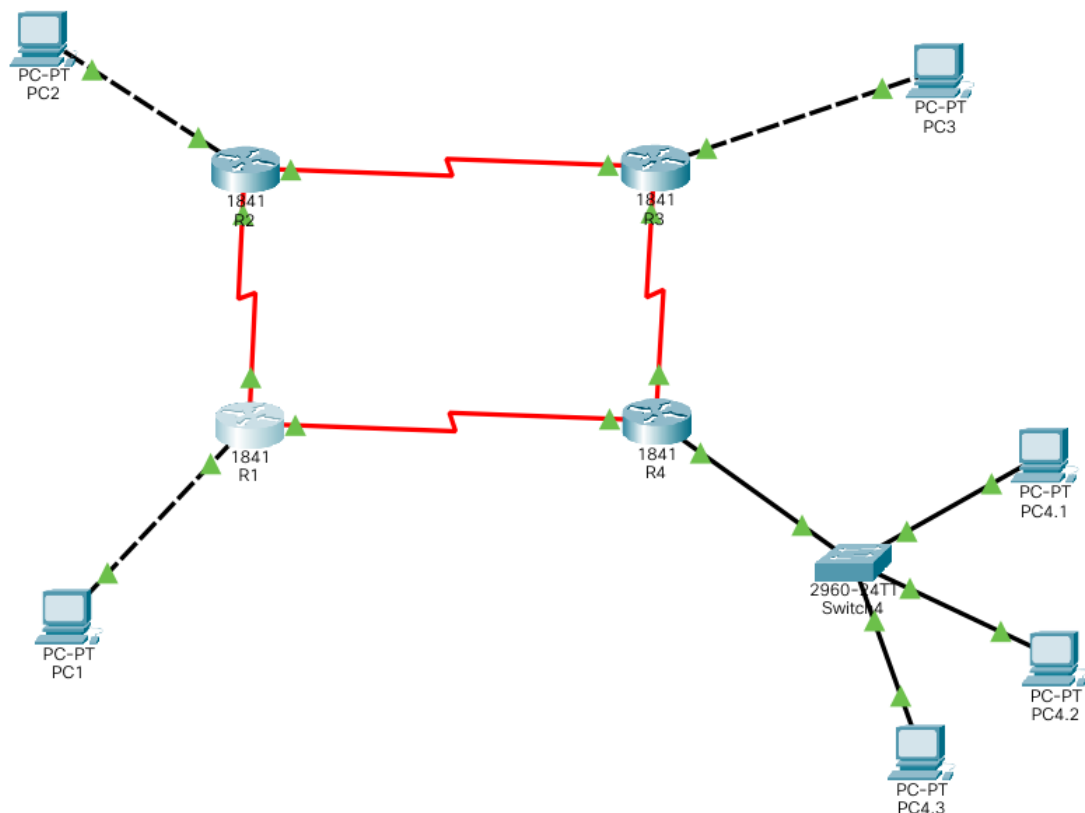Лабораторная работа №8
по дисциплине: **КСиС**
Тема: НАСТРОЙКА СТАТИЧЕСКОЙ МАРШРУТИЗАЦИИ НА
УСТРОЙСТВАХ CISCO

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Брест 2021

Часть 1:

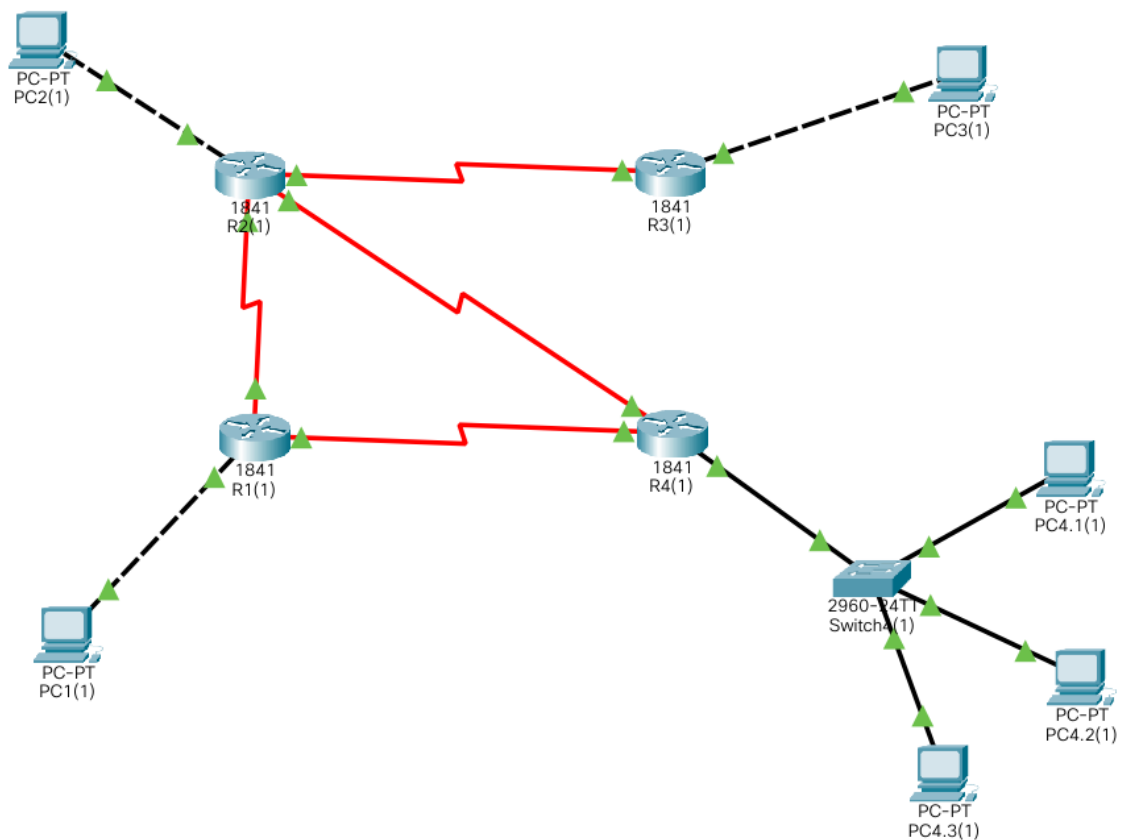| Device	Interface	IP Address	Mask	Default Gateway
R1	Fa0/0	192.168.1.1	255.255.255.0	N/A
	S0/0/0	192.168.5.1	255.255.255.0	N/A
	S0/0/1	192.168.6.1	255.255.255.0	N/A
R2	Fa0/0	192.168.2.1	255.255.255.0	N/A
	S0/0/0	192.168.5.2	255.255.255.0	N/A
	S0/0/1	192.168.6.2	255.255.255.0	N/A
R3	Fa0/0	192.168.3.1	255.255.255.0	N/A
	S0/0/0	192.168.5.3	255.255.255.0	N/A
	S0/0/1	192.168.6.3	255.255.255.0	N/A
R4	Fa0/0	192.168.4.1	255.255.255.0	N/A
	S0/0/0	192.168.5.4	255.255.255.0	N/A
	S0/0/1	192.168.6.4	255.255.255.0	N/A
PC1	Fa0	192.168.1.10	255.255.255.0	192.168.1.1
PC2	Fa0	192.168.2.10	255.255.255.0	192.168.2.1
PC3	Fa0	192.168.3.10	255.255.255.0	192.168.3.1
PC4.1	Fa0	192.168.4.11	255.255.255.0	192.168.4.1
PC4.2	Fa0	192.168.4.12	255.255.255.0	192.168.4.1
PC4.3	Fa0	192.168.4.13	255.255.255.0	192.168.4.1

res1

```
1  C:\>ipconfig
2
3  FastEthernet0 Connection:(default port)
4
```

```
 5     Connection - specific DNS Suffix..:
 6     Link-local IPv6 Address.........: FE80::2E0:F7FF:FE6A:4019
 7     IPv6 Address....................: ::
 8     IPv4 Address....................: 192.168.1.10
 9     Subnet Mask.....................: 255.255.255.0
10     Default Gateway.................: ::
11                                       192.168.1.1
12
13  C:\>ping 192.168.2.10
14
15  Pinging 192.168.2.10 with 32 bytes of data:
16
17  Reply from 192.168.2.10: bytes=32 time=13ms TTL=126
18  Reply from 192.168.2.10: bytes=32 time=1ms TTL=126
19  Reply from 192.168.2.10: bytes=32 time=1ms TTL=126
20  Reply from 192.168.2.10: bytes=32 time=1ms TTL=126
21
22  Ping statistics for 192.168.2.10:
23      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
24  Approximate round trip times in milli-seconds:
25      Minimum = 1ms, Maximum = 13ms, Average = 4ms
26
27  C:\>ping 192.168.3.10
28
29  Pinging 192.168.3.10 with 32 bytes of data:
30
31  Reply from 192.168.3.10: bytes=32 time=41ms TTL=125
32  Reply from 192.168.3.10: bytes=32 time=2ms TTL=125
33  Reply from 192.168.3.10: bytes=32 time=40ms TTL=125
34  Reply from 192.168.3.10: bytes=32 time=2ms TTL=125
35
36  Ping statistics for 192.168.3.10:
37      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
38  Approximate round trip times in milli-seconds:
39      Minimum = 2ms, Maximum = 41ms, Average = 21ms
40
41  C:\>ping 192.168.4.12
42
43  Pinging 192.168.4.12 with 32 bytes of data:
44
45  Reply from 192.168.4.12: bytes=32 time=11ms TTL=126
46  Reply from 192.168.4.12: bytes=32 time=1ms TTL=126
47  Reply from 192.168.4.12: bytes=32 time=18ms TTL=126
48  Reply from 192.168.4.12: bytes=32 time=9ms TTL=126
49
50  Ping statistics for 192.168.4.12:
51      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
52  Approximate round trip times in milli-seconds:
53      Minimum = 1ms, Maximum = 18ms, Average = 9ms
```

Часть 1:

Device	Interface	IP Address	Mask	Default Gateway
R1	Fa0/0	192.168.1.1	255.255.255.0	N/A
	S0/0/0	192.168.5.1	255.255.255.0	N/A
	S0/0/1	192.168.6.1	255.255.255.0	N/A
R2	Fa0/0	192.168.2.1	255.255.255.0	N/A
	S0/0/0	192.168.5.2	255.255.255.0	N/A
	S0/0/1	192.168.6.2	255.255.255.0	N/A
	S0/1/0	192.168.7.2	255.255.255.0	N/A
R3	Fa0/0	192.168.3.1	255.255.255.0	N/A
	S0/0/0	192.168.5.3	255.255.255.0	N/A
R4	Fa0/0	192.168.4.1	255.255.255.0	N/A
	S0/0/0	192.168.5.4	255.255.255.0	N/A
	S0/0/1	192.168.6.4	255.255.255.0	N/A
	S0/1/0	192.168.7.4	255.255.255.0	N/A
PC1	Fa0	192.168.1.10	255.255.255.0	192.168.1.1
PC2	Fa0	192.168.2.10	255.255.255.0	192.168.2.1
PC3	Fa0	192.168.3.10	255.255.255.0	192.168.3.1
PC4.1	Fa0	192.168.4.11	255.255.255.0	192.168.4.1
PC4.2	Fa0	192.168.4.12	255.255.255.0	192.168.4.1
PC4.3	Fa0	192.168.4.13	255.255.255.0	192.168.4.1

res2

```
1 C:\>ipconfig
2
3 FastEthernet0 Connection:(default port)
4
```

```
 5     Connection-specific DNS Suffix..:
 6     Link-local IPv6 Address.........: FE80::201:42FF:FEA6:455E
 7     IPv6 Address....................: ::
 8     IPv4 Address....................: 192.168.4.13
 9     Subnet Mask.....................: 255.255.255.0
10     Default Gateway.................: ::
11                                       192.168.4.1
12
13  C:\>ping 192.168.1.10
14
15  Pinging 192.168.1.10 with 32 bytes of data:
16
17  Reply from 192.168.1.10: bytes=32 time=21ms TTL=126
18  Reply from 192.168.1.10: bytes=32 time=1ms TTL=126
19  Reply from 192.168.1.10: bytes=32 time=11ms TTL=126
20  Reply from 192.168.1.10: bytes=32 time=1ms TTL=126
21
22  Ping statistics for 192.168.1.10:
23      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
24  Approximate round trip times in milli-seconds:
25      Minimum = 1ms, Maximum = 21ms, Average = 8ms
26
27  C:\>ping 192.168.2.10
28
29  Pinging 192.168.2.10 with 32 bytes of data:
30
31  Reply from 192.168.2.10: bytes=32 time=25ms TTL=126
32  Reply from 192.168.2.10: bytes=32 time=1ms TTL=126
33  Reply from 192.168.2.10: bytes=32 time=1ms TTL=126
34  Reply from 192.168.2.10: bytes=32 time=1ms TTL=126
35
36  Ping statistics for 192.168.2.10:
37      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
38  Approximate round trip times in milli-seconds:
39      Minimum = 1ms, Maximum = 25ms, Average = 7ms
40
41  C:\>ping 192.168.3.10
42
43  Pinging 192.168.3.10 with 32 bytes of data:
44
45  Reply from 192.168.3.10: bytes=32 time=2ms TTL=125
46  Reply from 192.168.3.10: bytes=32 time=60ms TTL=125
47  Reply from 192.168.3.10: bytes=32 time=2ms TTL=125
48  Reply from 192.168.3.10: bytes=32 time=31ms TTL=125
49
50  Ping statistics for 192.168.3.10:
51      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
52  Approximate round trip times in milli-seconds:
53      Minimum = 2ms, Maximum = 60ms, Average = 23ms
```

Вывод: Были построены сети с заданной топологией. Настроена статическая маршрутизация. Построены таблицы сетей.