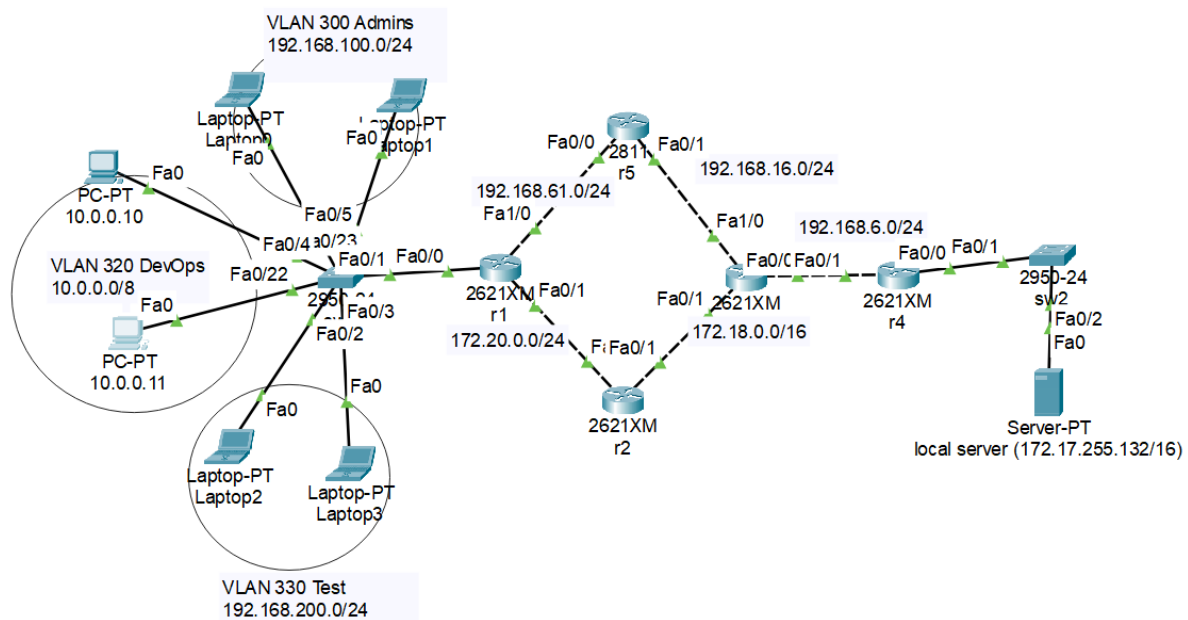


## Домашнее задание к семинару 4.

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Исправленная схема, все линки зеленые:

1.



2. tracert от сервера до 10.0.0.11 прошел двумя маршрутами:

```
Tracing route to 10.0.0.11 over a maximum of 30 hops:
```

1	0 ms	0 ms	0 ms	172.17.0.1
2	5 ms	0 ms	0 ms	192.168.6.2
3	0 ms	0 ms	0 ms	172.18.0.1
4	0 ms	0 ms	0 ms	172.20.0.2
5	0 ms	4 ms	0 ms	10.0.0.11

```
Trace complete.
```

```
C:\>tracert 10.0.0.11
```

```
Tracing route to 10.0.0.11 over a maximum of 30 hops:
```

1	0 ms	0 ms	0 ms	172.17.0.1
2	0 ms	0 ms	0 ms	192.168.6.2
3	0 ms	0 ms	0 ms	192.168.16.1
4	0 ms	0 ms	0 ms	172.20.0.2
5	0 ms	0 ms	0 ms	10.0.0.11

```
Trace complete.
```

### 3. Таблица маршрутизации для r1:

```
Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, FastEthernet0/0.320
O    172.17.0.0/16 [110/4] via 192.168.61.1, 00:17:56,
FastEthernet1/0
      [110/4] via 172.20.0.1, 00:17:56, FastEthernet0/1
O    172.18.0.0/16 [110/2] via 172.20.0.1, 00:24:29, FastEthernet0/1
      172.20.0.0/24 is subnetted, 1 subnets
C      172.20.0.0 is directly connected, FastEthernet0/1
O    192.168.6.0/24 [110/3] via 192.168.61.1, 00:17:56,
FastEthernet1/0
      [110/3] via 172.20.0.1, 00:17:56,
FastEthernet0/1
O    192.168.16.0/24 [110/2] via 192.168.61.1, 00:40:09,
FastEthernet1/0
C    192.168.61.0/24 is directly connected, FastEthernet1/0
C    192.168.100.0/24 is directly connected, FastEthernet0/0.300
C    192.168.200.0/24 is directly connected, FastEthernet0/0.330
--More--
```

### 4. трейс от сервера до 10.0.0.11 с целой сеткой:

```
Tracing route to 10.0.0.11 over a maximum of 30 hops:

  1  0 ms      0 ms      0 ms      172.17.0.1
  2  0 ms      0 ms      0 ms      192.168.6.2
  3  0 ms      0 ms      0 ms      192.168.16.1
  4  0 ms      0 ms      0 ms      172.20.0.2
  5  0 ms      0 ms      0 ms      10.0.0.11

Trace complete.
```

### трейс после удаления линка r5 - r3:

```
Tracing route to 10.0.0.11 over a maximum of 30 hops:

  1  0 ms      0 ms      0 ms      172.17.0.1
  2  0 ms      0 ms      0 ms      192.168.6.2
  3  0 ms      0 ms      0 ms      172.18.0.1
  4  0 ms      0 ms      0 ms      172.20.0.2
  5  0 ms      0 ms      0 ms      10.0.0.11

Trace complete.
```

ip route для r5 с "оборванным линком":

```
O    10.0.0.0/8 [110/2] via 192.168.61.2, 00:51:15, FastEthernet0/0
O    172.17.0.0/16 [110/5] via 192.168.61.2, 00:00:35,
FastEthernet0/0
O    172.18.0.0/16 [110/3] via 192.168.61.2, 00:00:35,
FastEthernet0/0
    172.20.0.0/24 is subnetted, 1 subnets
O    172.20.0.0/24 [110/2] via 192.168.61.2, 00:49:01,
FastEthernet0/0
O    192.168.6.0/24 [110/4] via 192.168.61.2, 00:00:35,
FastEthernet0/0
    192.168.61.0/24 is variably subnetted, 2 subnets, 2 masks
C    192.168.61.0/24 is directly connected, FastEthernet0/0
L    192.168.61.1/32 is directly connected, FastEthernet0/0
O    192.168.100.0/24 [110/2] via 192.168.61.2, 00:51:15,
FastEthernet0/0
O    192.168.200.0/24 [110/2] via 192.168.61.2, 00:51:15,
FastEthernet0/0
```