Network Diagram Labels:

- Logical | Physical | x: 656, y: 266

- VLAN 300 Admins — 192.168.100.0/24
- Laptop-PT Laptop1 — Fa0
- Laptop-PT Laptop1 — Fa0

- PC-PT 10.0.0.10 — Fa0
- VLAN 320 DevOps — 10.0.0.0/8
- PC-PT 10.0.0.11 — Fa0

- Fa0/5
- Fa0/4 0/2
- Fa0/1
- Fa0/22
- 265
- Fa0/3
- Fa0/2

- Fa0/0 — 2811 r5
- Fa0/0 — Fa0/1
- 192.168.61.0/24
- 192.168.16.0/24
- Fa1/0
- Fa1/0
- Fa0/0
- 192.168.6.0/24
- Fa0/0
- Fa0/1 Fa0/0
- Fa0/1
- 2621XM r1 — Fa0/1
- Fa0/1 — 2621XM r3
- Fa0/1
- 2621XM r4
- 2950-24 sw2
- Fa0/2

- 172.20.0.0/24
- 172.18.0.0/16
- Fa Fa0/1
- Fa0/1
- 2621XM r2

- Laptop-PT Laptop2 — Fa0
- Laptop-PT Laptop3 — Fa0
- VLAN 330 Test — 192.168.200.0/24

- Server-PT local server (172.17.255.132/ — Fa0

CLI Window (r1):

Physical | Config | CLI | Attributes

IOS Command Line Interface

```
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip ospf nei


Neighbor ID     Pri   State          Dead Time   Address        Interface
2.2.2.2         1     FULL/DR        00:00:31    172.20.0.1     FastEthernet0/1
5.5.5.5         1     FULL/DR        00:00:35    192.168.61.2   FastEthernet1/0
Router#sh ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

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 192.168.61.2, 00:02:23, FastEthernet1/0
                   [110/4] via 172.20.0.1, 00:02:23, FastEthernet0/1
O    172.18.0.0/16 [110/2] via 172.20.0.1, 00:02:23, 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 192.168.61.2, 00:02:23, FastEthernet1/0
                    [110/3] via 172.20.0.1, 00:02:23, FastEthernet0/1
O    192.168.16.0/24 [110/2] via 192.168.61.2, 00:25:50, 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

Router#
```
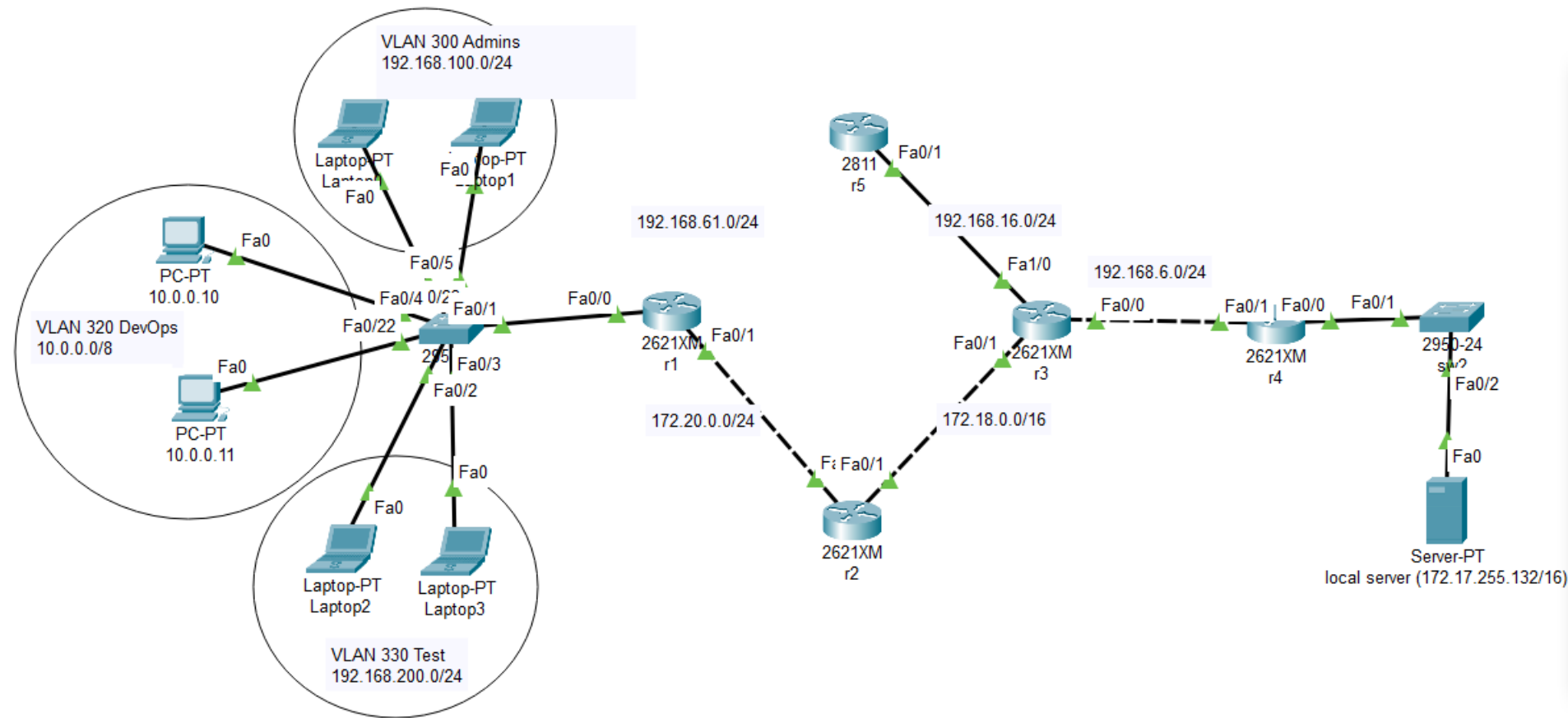
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VLAN 300 Admins
192.168.100.0/24

Laptop-PT
Laptop0
Fa0
Fa0   top-PT
ptop1
Fa0/5

Fa0
PC-PT
10.0.0.10

VLAN 320 DevOps
10.0.0.0/8

Fa0/4 0/23
Fa0/22
29?   Fa0/1
Fa0/3
Fa0/2

Fa0
PC-PT
10.0.0.11

Fa0
Laptop-PT
Laptop2

Fa0
Laptop-PT
Laptop3

VLAN 330 Test
192.168.200.0/24

Fa0/0

192.168.61.0/24

2621XM   Fa0/1
r1

172.20.0.0/24

Fa Fa0/1

2621XM
r2

2811   Fa0/1
r5

192.168.16.0/24

Fa1/0

192.168.6.0/24

Fa0/1   Fa0/0   Fa0/0   Fa0/1
2621XM
r3   2621XM
r4

Fa0/1

172.18.0.0/16

2950-24
sw?
Fa0/2

Fa0

Server-PT
local server (172.17.255.132/16)

Laptop0

```
Trace complete.

C:\>tracert 192.168.16.1

Tracing route to 192.168.16.1 over a maximum of 30 hops:

  1    0 ms      0 ms      0 ms      192.168.100.1
  2    0 ms      0 ms      0 ms      192.168.16.1

Trace complete.

C:\>tracert 192.168.16.1

Tracing route to 192.168.16.1 over a maximum of 30 hops:

  1    0 ms      0 ms      0 ms      192.168.100.1
  2    0 ms      0 ms      0 ms      172.20.0.1
  3    0 ms      0 ms      0 ms      172.18.0.2
  4    0 ms      0 ms      1 ms      192.168.16.1

Trace complete.

C:\>tracert 192.168.16.1
```
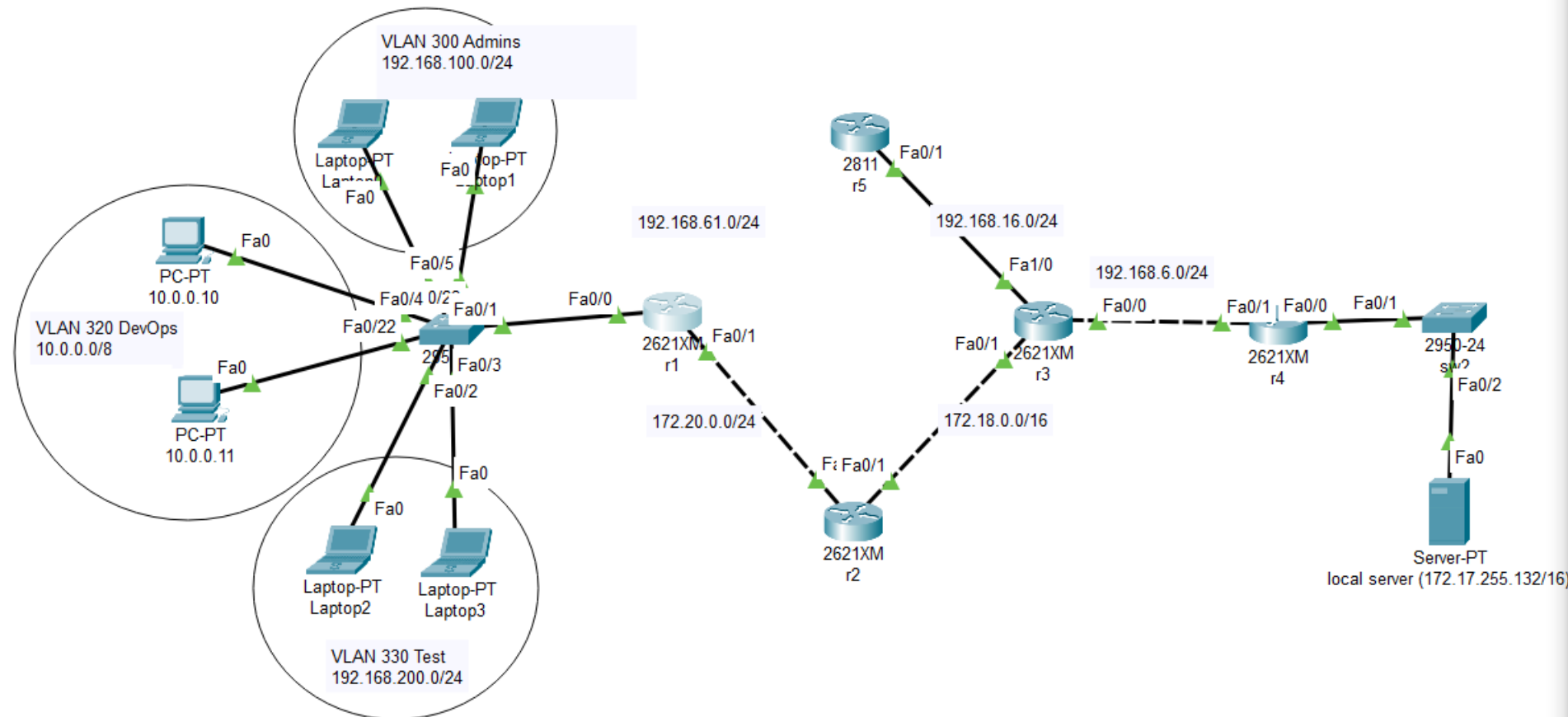
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VLAN 300 Admins
192.168.100.0/24

Laptop-PT
Laptop
Fa0

Laptop-PT
Laptop1
Fa0

Fa0

PC-PT
10.0.0.10
Fa0

VLAN 320 DevOps
10.0.0.0/8

Fa0/5

Fa0/4 0/2

Fa0/1

Fa0/0

Fa0/22

2950
Fa0/3

Fa0/2

PC-PT
10.0.0.11
Fa0

Fa0

Fa0

Laptop-PT
Laptop2
Fa0

Laptop-PT
Laptop3

VLAN 330 Test
192.168.200.0/24

192.168.61.0/24

2621XM
r1

Fa0/1

172.20.0.0/24

Fa Fa0/1

2621XM
r2

2811
r5

Fa0/1

192.168.16.0/24

Fa1/0

192.168.6.0/24

Fa0/1

2621XM
r3

172.18.0.0/16

Fa0/0

Fa0/1 Fa0/0

2621XM
r4

Fa0/1

2950-24
sw2

Fa0/2

Fa0

Server-PT
local server (172.17.255.132/16)

r1

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router#
04:07:08: %OSPF-5-ADJCHG: Process 1, Nbr 5.5.5.5 on FastEthernet1/0 from
LOADING to FULL, Loading Done

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed
state to down

04:10:16: %OSPF-5-ADJCHG: Process 1, Nbr 5.5.5.5 on FastEthernet1/0 from
FULL to DOWN, Neighbor Down: Interface down or detached

Router#sh ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

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 172.20.0.1, 00:04:32, FastEthernet0/1
O    172.18.0.0/16 [110/2] via 172.20.0.1, 00:18:39, 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 172.20.0.1, 00:04:32, FastEthernet0/1
O    192.168.16.0/24 [110/3] via 172.20.0.1, 00:04:32, FastEthernet0/1
C    192.168.100.0/24 is directly connected, FastEthernet0/0.300
C    192.168.200.0/24 is directly connected, FastEthernet0/0.330

Router#
```

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