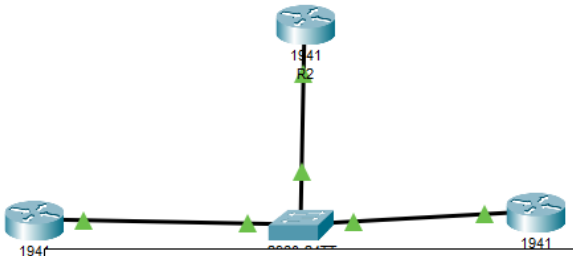
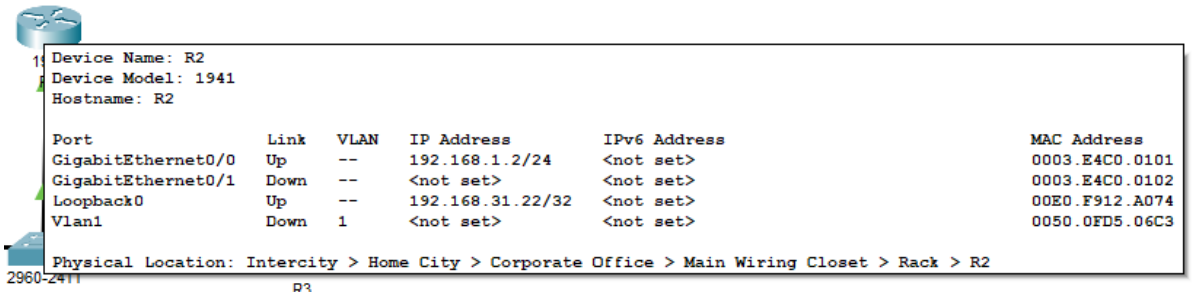
Zad 10.1.1.13

Piotr Boguszewski 63478 inis5_FD

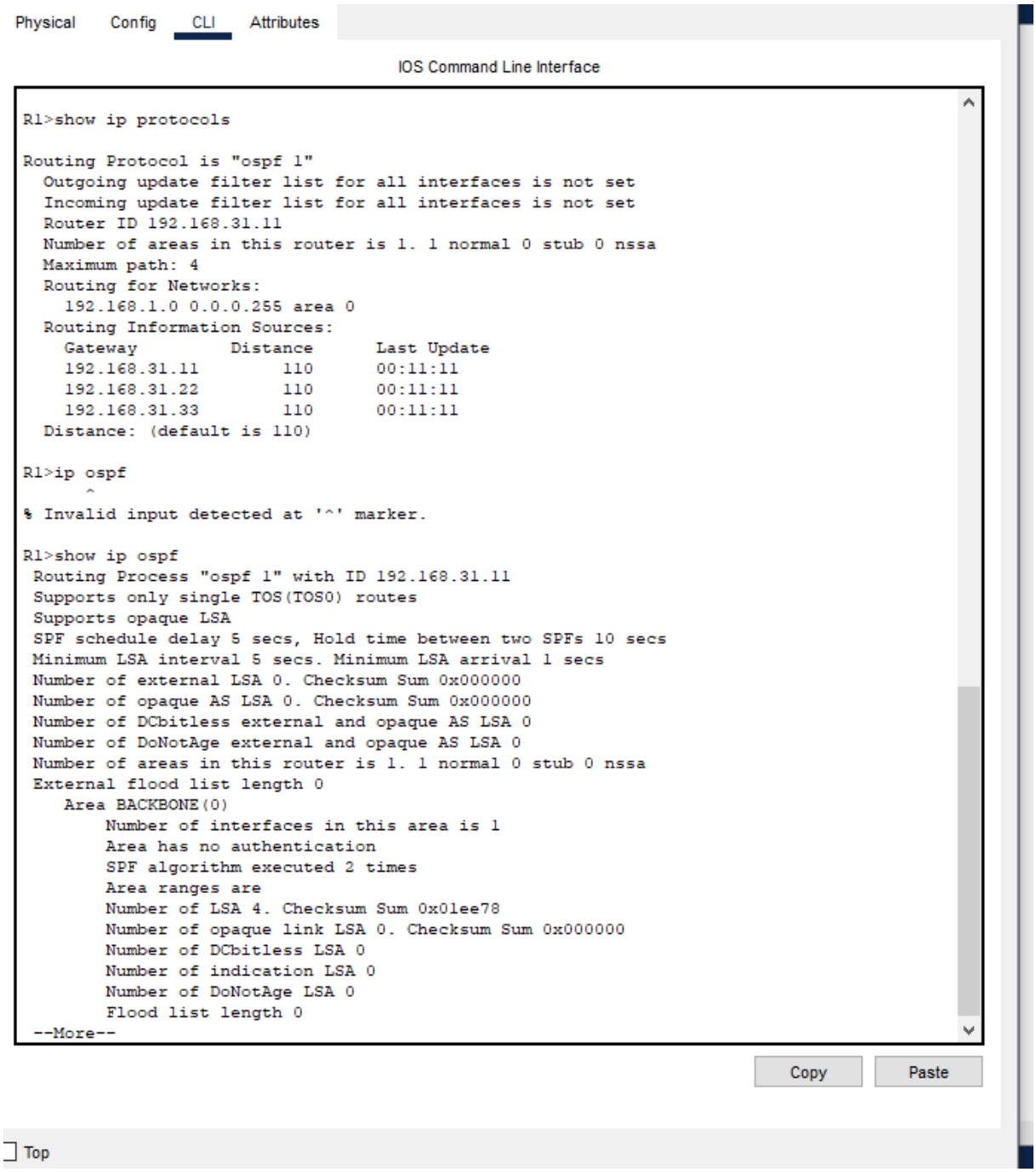



```
Device Name: R1
Device Model: 1941
Hostname: R1

Port                 Link   VLAN   IP Address          IPv6 Address                              MAC Address
GigabitEthernet0/0   Down   --     <not set>           <not set>                                 00D0.9711.DC01
GigabitEthernet0/1   Up     --     192.168.1.1/24      <not set>                                 00D0.9711.DC02
Loopback0            Up     --     192.168.31.11/32    <not set>                                 0040.0B5D.4BCB
Vlan1                Down   1      <not set>           <not set>                                 0001.64B2.8848

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > R1
```



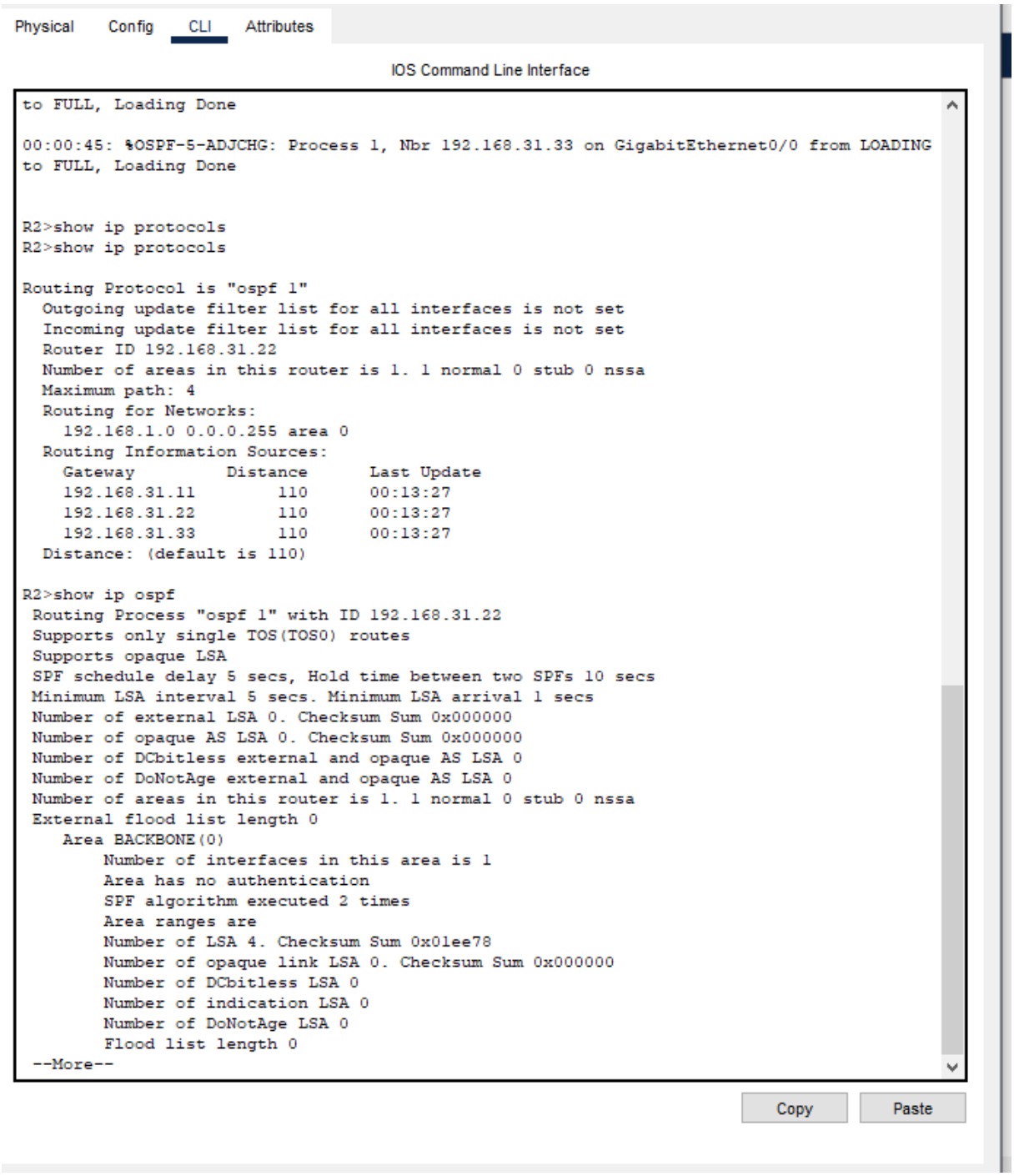

```
Device Name: R2
Device Model: 1941
Hostname: R2

Port                 Link   VLAN   IP Address          IPv6 Address                              MAC Address
GigabitEthernet0/0   Up     --     192.168.1.2/24      <not set>                                 0003.E4C0.0101
GigabitEthernet0/1   Down   --     <not set>           <not set>                                 0003.E4C0.0102
Loopback0            Up     --     192.168.31.22/32    <not set>                                 00E0.F912.A074
Vlan1                Down   1      <not set>           <not set>                                 0050.0FD5.06C3

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > R2
```

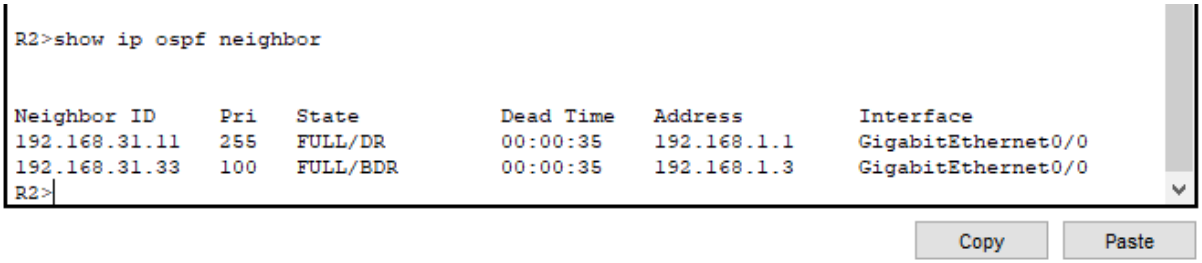
```
Device Name: R3
Device Model: 1941
Hostname: R3

Port                 Link   VLAN   IP Address          IPv6 Address                              MAC Address
GigabitEthernet0/0   Down   --     <not set>           <not set>                                 00D0.971E.9601
GigabitEthernet0/1   Up     --     192.168.1.3/24      <not set>                                 00D0.971E.9602
Loopback0            Up     --     192.168.31.33/32    <not set>                                 0004.9A9A.6D39
Vlan1                Down   1      <not set>           <not set>                                 0009.7C1A.B708

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > R3
```



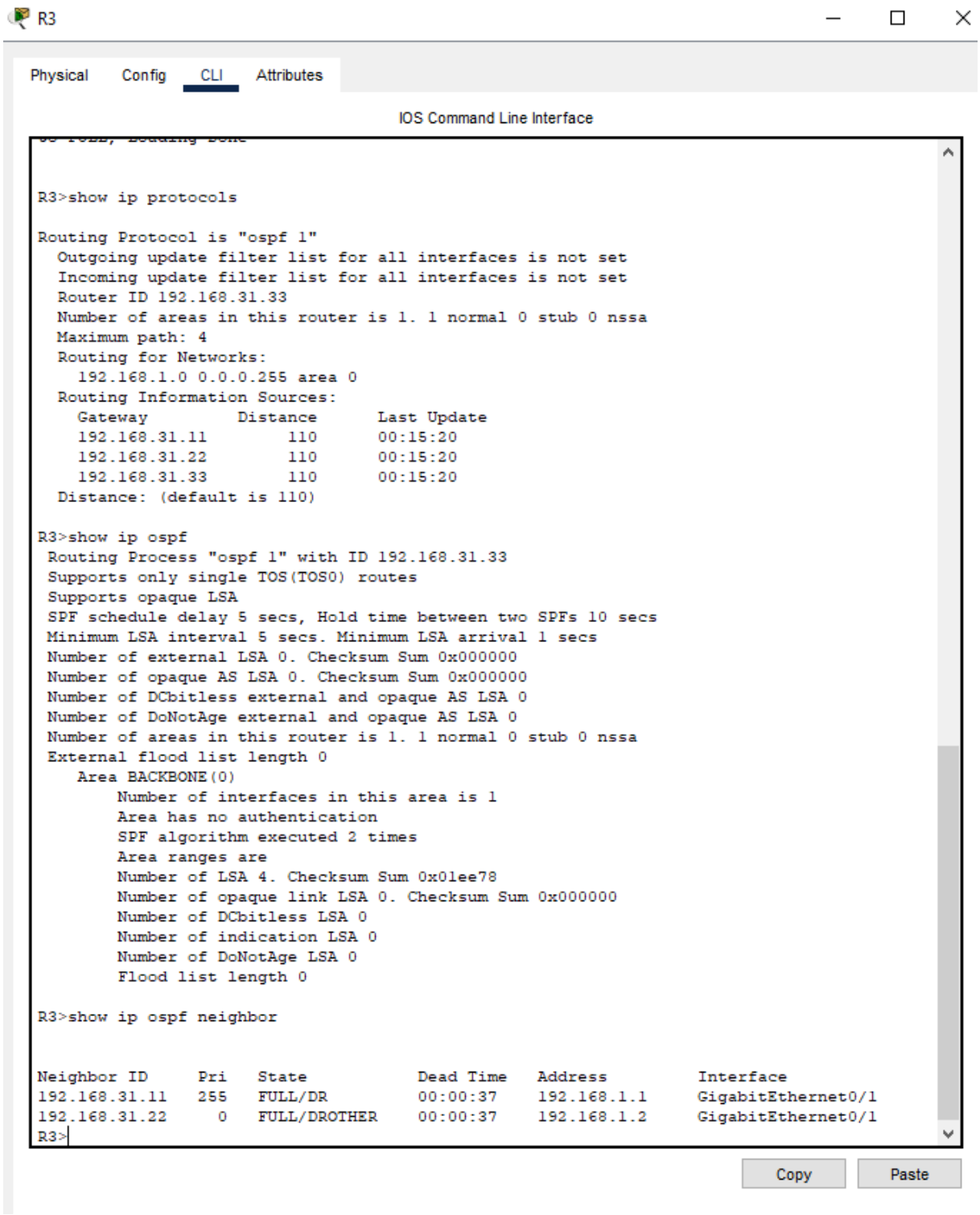

```
R1>show ip ospf neighbor


Neighbor ID     Pri   State           Dead Time   Address         Interface
192.168.31.33   100   FULL/BDR        00:00:34    192.168.1.3     GigabitEthernet0/1
192.168.31.22     0   FULL/DROTHER    00:00:34    192.168.1.2     GigabitEthernet0/1
R1>
```

R2

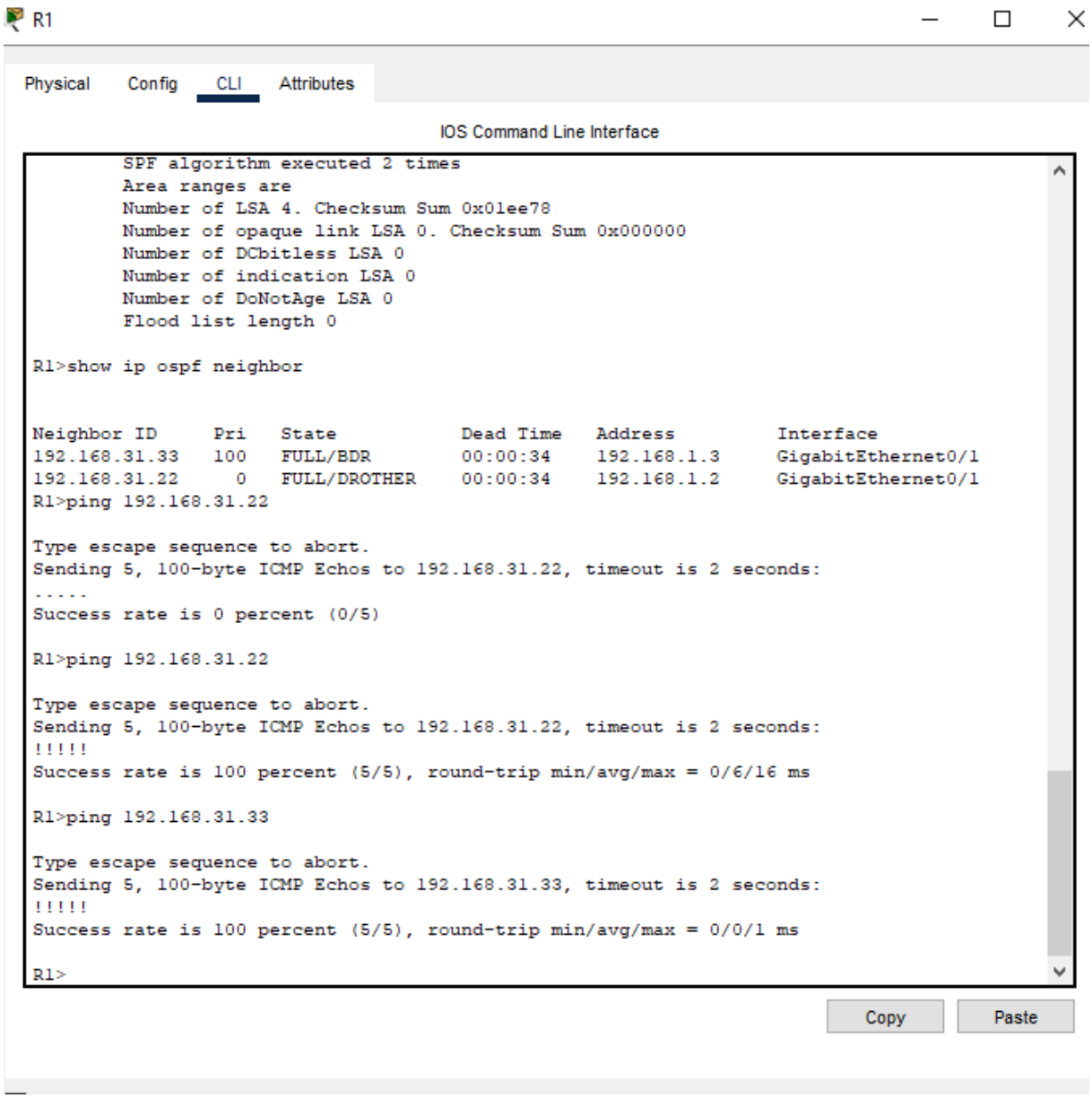

Physical
Config
CLI
Attributes
IOS Command Line Interface
to FULL, Loading Done
00:00:45: %OSPF-5-ADJCHG: Process 1, Nbr 192.168.31.33 on GigabitEthernet0/0 from LOADING
to FULL, Loading Done
R2>show ip protocols
R2>show ip protocols
Routing Protocol is "ospf 1"
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Router ID 192.168.31.22
Number of areas in this router is 1. 1 normal 0 stub 0 nssa
Maximum path: 4
Routing for Networks:
192.168.1.0 0.0.0.255 area 0
Routing Information Sources:
Gateway Distance Last Update
192.168.31.11 110 00:13:27
192.168.31.22 110 00:13:27
192.168.31.33 110 00:13:27
Distance: (default is 110)
R2>show ip ospf
Routing Process "ospf 1" with ID 192.168.31.22
Supports only single TOS(TOS0) routes
Supports opaque LSA
SPF schedule delay 5 secs, Hold time between two SPFs 10 secs
Minimum LSA interval 5 secs. Minimum LSA arrival 1 secs
Number of external LSA 0. Checksum Sum 0x000000
Number of opaque AS LSA 0. Checksum Sum 0x000000
Number of DCbitless external and opaque AS LSA 0
Number of DoNotAge external and opaque AS LSA 0
Number of areas in this router is 1. 1 normal 0 stub 0 nssa
External flood list length 0
Area BACKBONE(0)
Number of interfaces in this area is 1
Area has no authentication
SPF algorithm executed 2 times
Area ranges are
Number of LSA 4. Checksum Sum 0x01ee78
Number of opaque link LSA 0. Checksum Sum 0x000000
Number of DCbitless LSA 0
Number of indication LSA 0
Number of DoNotAge LSA 0
Flood list length 0
--More--
Copy
Paste


R2>show ip ospf neighbor
Neighbor ID Pri State Dead Time Address Interface
192.168.31.11 255 FULL/DR 00:00:35 192.168.1.1 GigabitEthernet0/0
192.168.31.33 100 FULL/BDR 00:00:35 192.168.1.3 GigabitEthernet0/0
R2>
Copy
Paste

R3


R3
Physical
Config
CLI
Attributes
IOS Command Line Interface
R3>show ip protocols
Routing Protocol is "ospf 1"
Outgoing update filter list for all interfaces is not set
Incoming update filter list for all interfaces is not set
Router ID 192.168.31.33
Number of areas in this router is 1. 1 normal 0 stub 0 nssa
Maximum path: 4
Routing for Networks:
192.168.1.0 0.0.0.255 area 0
Routing Information Sources:
Gateway Distance Last Update
192.168.31.11 110 00:15:20
192.168.31.22 110 00:15:20
192.168.31.33 110 00:15:20
Distance: (default is 110)
R3>show ip ospf
Routing Process "ospf 1" with ID 192.168.31.33
Supports only single TOS(TOS0) routes
Supports opaque LSA
SPF schedule delay 5 secs, Hold time between two SPFs 10 secs
Minimum LSA interval 5 secs. Minimum LSA arrival 1 secs
Number of external LSA 0. Checksum Sum 0x000000
Number of opaque AS LSA 0. Checksum Sum 0x000000
Number of DCbitless external and opaque AS LSA 0
Number of DoNotAge external and opaque AS LSA 0
Number of areas in this router is 1. 1 normal 0 stub 0 nssa
External flood list length 0
Area BACKBONE(0)
Number of interfaces in this area is 1
Area has no authentication
SPF algorithm executed 2 times
Area ranges are
Number of LSA 4. Checksum Sum 0x01ee78
Number of opaque link LSA 0. Checksum Sum 0x000000
Number of DCbitless LSA 0
Number of indication LSA 0
Number of DoNotAge LSA 0
Flood list length 0
R3>show ip ospf neighbor
Neighbor ID Pri State Dead Time Address Interface
192.168.31.11 255 FULL/DR 00:00:37 192.168.1.1 GigabitEthernet0/1
192.168.31.22 0 FULL/DROTHER 00:00:37 192.168.1.2 GigabitEthernet0/1
R3>
Copy
Paste

Pingi



Podsumowanie

Efektem zadania jest sieć ze współdzielonymi interfejsami sieciowymi z

automatycznym trasowaniem protokołem OSPFv2

w protokole można ustawić priorytet przechowywania przez routery informacji o sieci, poprzez polecenia

interface [nazwa int]

ip ospf priority [priorytet]

lub według kolejności przyłączania do strefy .

routery same ustawią priorytety i sklasyfikują się DR,BDR,BDO.

W ćwiczeniu struktura została zmieniona z R3 > R2 > R1 na R1 > R3 > R2.