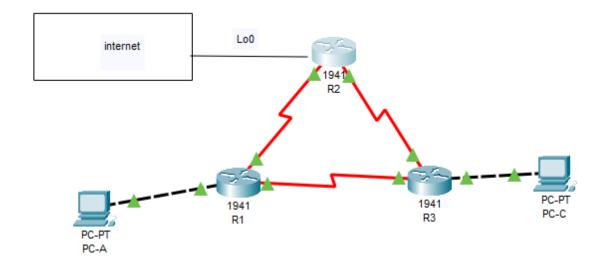
Zadanie 10.1.3.5

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Topologia sieci



Konfiguracja interfejsów

R1

Rl>show ip interface	brief					
Interface	IP-Address	OK?	Method	Status		Protocol
GigabitEthernet0/0	192.168.1.1	YES	manual	up		up
GigabitEthernet0/1	unassigned	YES	unset	administratively	down	down
Serial0/0/0	192.168.12.1	YES	manual	up		up
Serial0/0/1	192.168.13.1	YES	manual	up		up
Vlanl	unassigned	YES	unset	administratively	down	down

R2

R2>show ip interface	brief					
Interface	IP-Address	OK?	Method	Status		Protocol
GigabitEthernet0/0	unassigned	YES	unset	administratively	down	down
GigabitEthernet0/1	unassigned	YES	unset	administratively	down	down
Serial0/0/0	192.168.12.2	YES	manual	up		up
Serial0/0/1	192.168.23.1	YES	manual	up		up
Loopback0	209.165.200.225	YES	manual	up		up
Vlanl	unassigned	YES	unset	${\tt administratively}$	down	down

R3

R3>show ip interface brief								
Interface	IP-Address	OK? I	Method	Status		Protocol		
GigabitEthernet0/0	192.168.3.1	YES 1	manual	up		up		
GigabitEthernet0/1	unassigned	YES 1	unset	administratively	down	down		
Serial0/0/0	192.168.13.1	YES 1	manual	up		up		
Serial0/0/1	192.168.23.1	YES 1	manual	up		up		
Vlanl	unassigned	YES 1	unset	administratively	down	down		

```
R1>show ip protocol
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 1.1.1.1
  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
    192.168.12.0 0.0.0.3 area 0
    192.168.13.0 0.0.0.3 area 0
  Routing Information Sources:
   Gateway
                   Distance Last Update
    1.1.1.1
                        110
                                00:06:49
    2.2.2.2
                        110
                                00:06:45
    3.3.3.3
                        110
                                 00:06:50
  Distance: (default is 110)
R1>show ip ospf
 Routing Process "ospf 1" with ID 1.1.1.1
 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 1. Checksum Sum 0x00e0e9
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 3
       Area has no authentication
       SPF algorithm executed 3 times
       Area ranges are
       Number of LSA 3. Checksum Sum 0x00e9a8
       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

R2>show ip protocol

```
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 2.2.2.2
 It is an autonomous system boundary router
 Redistributing External Routes from,
 Number of areas in this router is 1. 1 normal 0 stub 0 nssa
 Maximum path: 4
 Routing for Networks:
    192.168.12.0 0.0.0.3 area 0
    192.168.23.0 0.0.0.3 area 0
 Routing Information Sources:
   Gateway
                    Distance
                                 Last Update
    1.1.1.1
                         110
                                  00:07:29
    2.2.2.2
                         110
                                  00:07:34
    3.3.3.3
                         110
                                  00:07:34
 Distance: (default is 110)
R2>show ip ospf
Routing Process "ospf 1" with ID 2.2.2.2
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 1. Checksum Sum 0x00e0e9
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 2
        Area has no authentication
        SPF algorithm executed 2 times
        Area ranges are
       Number of LSA 3. Checksum Sum 0x00e9a8
       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
```

```
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 3.3.3.3
 Number of areas in this router is 1. 1 normal 0 stub 0 nssa
 Maximum path: 4
  Routing for Networks:
    192.168.3.0 0.0.0.255 area 0
    192.168.13.0 0.0.0.3 area 0
    192.168.23.0 0.0.0.3 area 0
 Routing Information Sources:
    Gateway
                    Distance
                                 Last Update
    1.1.1.1
                         110
                                  00:08:02
    2.2.2.2
                         110
                                  00:08:02
    3.3.3.3
                         110
                                  00:08:02
 Distance: (default is 110)
R3>show ip ospf
 Routing Process "ospf 1" with ID 3.3.3.3
 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 1. Checksum Sum 0x00e0e9
 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 3
        Area has no authentication
        SPF algorithm executed 3 times
        Area ranges are
        Number of LSA 3. Checksum Sum 0x00e9a8
        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
```

Podsumowanie

Głównym zadaniem było skonfigurowanie interfejsów w taki sposób, aby połączyć dwa komputery oraz Internet, jednocześnie zwiększając koszty transmisji danych w taki sposób, aby cały ruch sieciowy był przekierowywany przez router R2.