# R1

* conf t
* router eigrp 1
* network 172.16.0.0
* network 192.168.10.4 0.0.0.3
* exit
* exit
* copy running-config startup-config
* show ip eigrp neighbors
* //IP-EIGRP neighbors for process 1
* //H Address Interface Hold Uptime SRTT RTO Q Seq
* // (sec) (ms) Cnt Num
* //0 172.16.3.2 Se0/0/0 10 00:05:38 40 1000 0 13
* //1 192.168.10.6 Se0/0/1 14 00:01:42 40 1000 0 3
* show ip protocols
* /\*Routing Protocol is "eigrp 1 "
* Outgoing update filter list for all interfaces is not set
* Incoming update filter list for all interfaces is not set
* Default networks flagged in outgoing updates
* Default networks accepted from incoming updates
* EIGRP metric weight K1=1, K2=0, K3=1, K4=0, K5=0
* EIGRP maximum hopcount 100
* EIGRP maximum metric variance 1
* Redistributing: eigrp 1
* Automatic network summarization is in effect
* Automatic address summarization:
* 172.16.0.0/16 for Serial0/0/1
* Summarizing with metric 28160
* 192.168.10.0/24 for FastEthernet0/0, Serial0/0/0
* Summarizing with metric 2169856
* Maximum path: 4
* Routing for Networks:
* 172.16.0.0
* 192.168.10.4/30
* Routing Information Sources:
* Gateway Distance Last Update
* 172.16.3.2 90 2278528
* 192.168.10.6 90 2514668
* Distance: internal 90 external 170 \*/
* conf t
* interface serial0/0/0
* bandwidth 64
* exit
* R1#show 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
* 172.16.0.0/16 is variably subnetted, 4 subnets, 3 masks
* D 172.16.0.0/16 is a summary, 00:25:29, Null0
* C 172.16.1.0/24 is directly connected, FastEthernet0/0
* D 172.16.2.0/24 [90/40514560] via 172.16.3.2, 00:04:18, Serial0/0/0
* C 172.16.3.0/30 is directly connected, Serial0/0/0
* D 192.168.1.0/24 [90/2172416] via 192.168.10.6, 00:12:44, Serial0/0/1
* 192.168.10.0/24 is variably subnetted, 3 subnets, 2 masks
* D 192.168.10.0/24 is a summary, 00:25:29, Null0
* C 192.168.10.4/30 is directly connected, Serial0/0/1
* D 192.168.10.8/30 [90/3523840] via 192.168.10.6, 00:02:24, Serial0/0/1
* router eigrp 1
* no auto-summary

# R2

* conf t
* router eigrp 1
* network 172.16.0.0
* // %DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 172.16.3.1 (Serial0/0/0) is up: new adjacency
* network 192.168.10.8 0.0.0.3
* end
* conf t
* interface serial0/0/0
* bandwidth 64
* exit
* interface serial0/0/1
* bandwidth 1024
* exit
* R2#show 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
* 10.0.0.0/30 is subnetted, 1 subnets
* C 10.1.1.0 is directly connected, Loopback0
* 172.16.0.0/16 is variably subnetted, 4 subnets, 3 masks
* D 172.16.0.0/16 is a summary, 00:01:26, Null0
* D 172.16.1.0/24 [90/40514560] via 172.16.3.1, 00:01:48, Serial0/0/0
* C 172.16.2.0/24 is directly connected, FastEthernet0/0
* C 172.16.3.0/30 is directly connected, Serial0/0/0
* D 192.168.1.0/24 [90/3014400] via 192.168.10.10, 00:01:23, Serial0/0/1
* 192.168.10.0/24 is variably subnetted, 3 subnets, 2 masks
* D 192.168.10.0/24 is a summary, 00:01:26, Null0
* D 192.168.10.4/30 [90/3523840] via 192.168.10.10, 00:01:23, Serial0/0/1
* C 192.168.10.8/30 is directly connected, Serial0/0/1
* R2#show ip eigrp topology
* IP-EIGRP Topology Table for AS 1/ID(10.1.1.1)
* Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
* r - Reply status
* P 172.16.0.0/16, 1 successors, FD is 28160
* via Summary (28160/0), Null0
* P 172.16.1.0/24, 1 successors, FD is 40514560
* via 172.16.3.1 (40514560/28160), Serial0/0/0
* P 172.16.2.0/24, 1 successors, FD is 28160
* via Connected, FastEthernet0/0
* P 172.16.3.0/30, 1 successors, FD is 40512000
* via Connected, Serial0/0/0
* P 192.168.1.0/24, 1 successors, FD is 3014400
* via 192.168.10.10 (3014400/28160), Serial0/0/1
* via 172.16.3.1 (41026560/2172416), Serial0/0/0
* P 192.168.10.0/24, 1 successors, FD is 3011840
* via Summary (3011840/0), Null0
* P 192.168.10.4/30, 1 successors, FD is 3523840
* via 192.168.10.10 (3523840/2169856), Serial0/0/1
* P 192.168.10.8/30, 1 successors, FD is 3011840
* via Connected, Serial0/0/1
* R2#show ip eigrp topology 192.168.1.0
* IP-EIGRP (AS 1): Topology entry for 192.168.1.0/24
* State is Passive, Query origin flag is 1, 1 Successor(s), FD is 3014400
* Routing Descriptor Blocks:
* 192.168.10.10 (Serial0/0/1), from 192.168.10.10, Send flag is 0x0
* Composite metric is (3014400/28160), Route is Internal
* Vector metric:
* Minimum bandwidth is 1024 Kbit
* Total delay is 20100 microseconds
* Reliability is 255/255
* Load is 1/255
* Minimum MTU is 1500
* Hop count is 1
* 172.16.3.1 (Serial0/0/0), from 172.16.3.1, Send flag is 0x0
* Composite metric is (41026560/2172416), Route is Internal
* Vector metric:
* Minimum bandwidth is 64 Kbit
* Total delay is 40100 microseconds
* Reliability is 255/255
* Load is 1/255
* Minimum MTU is 1500
* Hop count is 2
* router eigrp 1
* no auto-summary
* R2(config)#**ip route 0.0.0.0 0.0.0.0 loopback0**
* R2(config)#

### Krok 2: Dołącz trasą statyczną do aktualizacji EIGRP.

* Użyj polecenia **redistribute static**, aby dołączyć trasę statyczną do aktualizacji EIGRP, które są wysyłane z routera R2.
* R2(config)#**router eigrp 1**
* R2(config-router)#**redistribute static**
* R2(config-router)#

# R3

* conf t
* router eigrp 1
* network 192.168.1.0
* network 192.168.10.4 0.0.0.3
* network 192.168.10.8 0.0.0.3
* end
* conf t
* interface serial 0/0/1
* bandwidth 1024
* exit
* R3#show 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
* D 172.16.0.0/16 [90/2172416] via 192.168.10.5, 00:15:04, Serial0/0/0
* C 192.168.1.0/24 is directly connected, FastEthernet0/0
* 192.168.10.0/24 is variably subnetted, 3 subnets, 2 masks
* D 192.168.10.0/24 is a summary, 00:15:04, Null0
* C 192.168.10.4/30 is directly connected, Serial0/0/0
* C 192.168.10.8/30 is directly connected, Serial0/0/1
* router eigrp 1
* no auto-summary
* R3(config)#**interface loopback1**
* R3(config-if)#**ip address 192.168.2.1 255.255.255.0**
* R3(config-if)#**interface loopback2**
* R3(config-if)#**ip address 192.168.3.1 255.255.255.0**
* R3(config)#**router eigrp 1**
* R3(config-router)#**network 192.168.2.0**
* R3(config-router)#**network 192.168.3.0**
* R3(config)#**interface serial 0/0/0**
* R3(config-if)#**ip summary-address eigrp 1 192.168.0.0 255.255.252.0**
* R3(config-if)#**interface serial0/0/1**
* R3(config-if)#**ip summary-address eigrp 1 192.168.0.0 255.255.252.0**
* R3(config-if