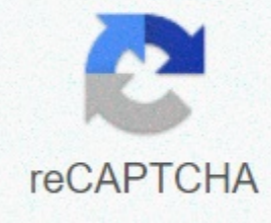




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floods the entire OSPF autonomous system and allows other routers to know how to access ASBR. To prove it is configured router 4.4.4.4 redistribution route 10.4.0.0/24 with a feedback interface as an external route. First, define export policy as policy instructions. root@vMX4# show policy-options policy-statement redist-direct { term term1 { from { protocol direct; interface lo0.0; } then accept; } } Then configure OSPF to use this statement as an export policy. root@vMX4# show protocols ospf export redist-direct; 0.0.0.34 { interface ge-0/0/0.0; } We will now see an external route for 10.4.0.0/24, and an ASBR summary for 4.4.4.4 in the database on router 2.2.2.2 root@vMX2# show ospf database area 12 OSPF database, Area 0.0.0.12 Type ID Adv Rtr Seq Age Opt Cksun Len Router 1.1.1.1 1.1.1.1 0x800000b6 2563 0x22 0x8646 48 Router *2.2.2.2 2.2.2.2 0x800000b8 559 0x22 0x854f 36 Network *172.16.12.2 2.2.2.2 0x8000001d 259 0x22 0x83bb 32 Summary *2.2.2.2 2.2.2.2 0x800000af 2359 0x22 0x93ea 28 Summary *3.3.3.3 2.2.2.2 0x800000af 1759 0x22 0x6f0a 28 Summary *172.16.23.0 2.2.2.2 0x800000af 1459 0x22 0x763b 28 Summary *172.16.34.0 2.2.2.2 0x800000af 1159 0x22 0x79e 28 ASBRSum *4.4.4.4 2.2.2.2 0x80000001 986 0x22 0x9a87 28 OSPF AS SCOPE link state database Type ID Adv Rtr Seq Age Opt Cksun Len Extern 10.4.0.0 4.4.4.4 0x80000001 99 0x22 0xd5be 36 Let's see what's inside the ASBR summary... root@vMX2# show ospf database area 12 extensive OSPF database, Area 0.0.0.12 Type ID Adv Rtr Seq Age Opt Cksun Len ASBRSum *4.4.4.4 2.2.2.2 0x800 000001 177 0x22 0x9a87 28 mask 0.0.0.0 Topology default (ID 0) -> Metric: 2 Gen Timer 00:47:03 Aging Timer 00:57:03 Installed 00:02:57 ago, Expires in 00:57:03, sent 00:02:57 ago Last change 00:02:57 ago, Number of changes: 1, We have the LSA ID as the ROUTER ID of the ASBR, and the cost of router 2.2.2.2 is 2. For completeness, the following command shows that the LSA was originally type 1 in area 34 before router 3.3.3.3 converted it to an ASBR summary when it flooded area 0. root@vMX3# show ospf database 4.4.4.4 OSPF adatbázis, Terület 0.0.0.0 Típus ID Adv Rtr Seq Age Opt Cksun Len ASBRSum *4.4.4.4 3.3.3.3 0x80000001 1090 0x22 0x72ac 28 OSPF OSPF Area 0.0.0.34 Type ID Adv Rtr Seq Age Opt Cksun Len Router 4.4.4.4 4.4.4.4 0x800000b8 1091 0x22 0x68d 36 LSA 5. static or protocol redistribution, it floods them in its territory as AS external LSAs. This type of LSA floods the entire OSPF topology, except in stub areas. Router 2.2.2.2 has received the external route from ASBR 4.4.4.4. root@vMX2# show ospf database area 12 external OSPF AS SCOPE link status database Type ID Adv Rtr Seq Age Opt Cksun Len Extern 10.4.0.0 4.4.4.4 0x80000001 577 0x22 0xd5be 36 The original ASBR RID remains in the Advertising router field. root@vMX2# show ospf database area 12 lsa-id 10.4.0.0 extensive OSPF AS SCOPE link status database type ID Adv Rtr Seq Age Opt Cksun Len Extern 10.4.0.0 4.4.4.4 0x80000001 675 0x22 0xd5be 36 mask 255.255.255.0 Topology default (ID 0) Type: 2, Metric: 0, Fwd addr: 0.0.0.0, Label: 0.0.0.0 Aging Timer 00:48:44 Installed 00:11:13 ago, expires at 00:48:45, sent 00:11:13 ago Last change 00:11:13 ago, Change count: 1 Router 2.2.2.2 just got to know the external route 10.4.0.0/24, and you need to recursively use ASBR 4.4.4.4 to reach it. Because the route was injected with the default E2 type, the cost between the OSPF connection is ignored and the associated cost is zero for the value injected by router 4.4.4.4. Before we close this type of LSA, external route types may need some clarification. E1 and E2 routes: External routes or Type 5 LSAs can be imported as type 1 or type 2 routes. When injecting E2 routes, internal cost indicators of the autonomous system are not taken into account when the LSA is flooded with topology. This is the default behavior, and it's ok for simple stump topologies, but with OSPF design as a cost-based protocol, using E1 routes makes more sense. This makes routers the original metric of the route combined with the cost of accessing ASBR (Type 4 LSA), resulting in the total route cost. Let's show him... The external route type is configured in the routing policy. Here's an example of my export policy before making any amendments. [edit policy-options policy-statement redist-direct] root@vMX4# show term term1 { from { protocol direct; interface lo0.0; } then accept; } Now, if you want to take the route as an E1, you can define this operation as a political term. I import the route at 5 default costs and set them as type E1. [edit policy-options policy-statement redist-direct] root@vMX4# set term term1 then external type 1 [edit policy-options policy-statement redist-direct] root@vMX4# set term term1 then metric 5 [edit policy-options policy-statement redist-direct] root@vMX4# show term term1 { from { protocol; direct interface } then { metric 5; external { type 1; } accept; } } commit, what's in our next LSA database. root@vMX2# show ospf database external lsa-id 10.4.0.0 extensive OSPF AS SCOPE link status database type ID Adv Rtr Seq Age Opt Cksun Len Extern 10.4.0.0 4.4.4.4 0x8000003d 86 0x22 0xcc7 36 mask 255.255.255.0 Topology default (ID 0) Type: 1, Metric: 5, Fwd addr: 0.0.0.0, Label: 0.0.0.0 Aging Timer 00:58:33 Installed: 00:01:24 ago, The cost was jected with a cost of 5 but when we validate in the RIB, we see it has a metric of 7 for the route. root@vMX2# show route 10.4.0.0 | 10.4.0.0/24 *[OSPF/150] 00:02:09, 7, LSA Type 7 - NSSA External If an area is configured as a stub, external routes or Type 5 LSAs are not allowed and are usually replaced by a single default route. This reduces the size of LSDB on stub routers and makes the topology simple, but there may be cases where external routes are required to derive from specific stub areas. In these cases, the Non-So-Stubby area was intended. This allows you to place an ASBR in the proxy area and continue to import external routes, but this time with a special LSA type. When it passes to the spinal area, the stump-spine-ABR converts the NSSA external LSA to a standard type 5 external LSA. To prove I've transferred area 34 to an NSSA both router 3 and router 4. root@vMX4# show export redist-direct; area 0.0.0.34 { nssa; interface ge-0/0/0.0; } The Type 5 LSA, which was previously flooded with router 4.4.4.4 now appears as an NSSA external LSA. root@vMX4# show ospf database OSPF database, Area 0.0.0.34 Type ID Adv Rtr Seq Age Opt Cksun Len Router 3.3.3.3 3.3.3.3 0x80000005 227 0x20 0xcc84 36 Router *4.4.4.4 4.4.4.4 0x80000004 226 0x20 0x8dbc 36 Network *172.16.34.4 4.4.4.4 0x80000002 226 0x20 0x3dee 32 Summary 1.1.1.1 3.3.3.3 0x80000002 227 0x20 0x31fa 28 Summary 2.2.2.2 3.3.3.3 0x80000002 227 0x20 0xf830 28 Summary 3.3.3.3 3.3.3.3 0x80000002 227 0x20 0xc065 28 Summary 172.16.12.0 3.3.3.3 0x80000002 227 0x20 0x5512 28 Summary 172.16.23.0 3.3.3.3 0x80000002 227 0x20 0xd18b 28 NSSA *10.4.0.0 4.4.4.4 0x80000002 226 0x28 0x2cf7 36 On the last line, we have our Type 7 LSA. It contains the following information... root@vMX4# show ospf database lsa-id 10.4.0.0 extensive OSPF database, Area 0.0.0.34 Type ID Adv Rtr Seq Age Opt Cksun Len NSSA *10.4.0.0 4.4.4.4 0x8 262 0x28 0x2cf7 36 mask 255.255.255.0 Topology default (ID 0) Type: 1, Metric: 5, Fwd addr: 172.16.34.4, Tag: 0.0.0.0 Gen Timer 00:45:37 Aging Timer 00:55:37 Installed 00:04:22 ago, expires in 00:55:38, 00:04:22 ago Sent Last modified: 00:04:22 ago, Change number: 2, Ours content is almost identical to the previous one, except that the The LAN IP is now in the Fwd address field. Hopping back router 2, we see the same prefix as an external, Type 5, LSA. root@vMX2# show ospf adatbázis lsa-id 10.4.0.0 kiterjedt OSPF AS SCOPE link állapot adatbázis Típusa ID Adv Rtr Seq Age Opt Cksun Len Extern 10.4.0.0 3.3.0.0.3.3 0x80000002 715 0x22 0xc06f 36 maszk 255.255.255.0 Topológia alapértelmezett (ID 0) Típus: 1, Metrikus: 5, Fwd addr: 172.16.34.4, Címke: 0.0.0.0 Öregedési időzítő 00:48:05 Telepítve 00:11:52 ezelőtt, lejár 00:48:05, sent 00:11:50 ago Last changed 00:12:16 ago, Change count: 1 Érdekes, hogy a hirdetősi router már nem 4.4.4.4, hanem 3.3.3.3, mivel ez volt az, ami létrehozta a Type 5 LSA. Change Since this router still acts as an asbr, it has advertised its own Router LSA with bit set E, which is assigned to the LSA summarized by router 2.2.2.2 asbr when it is sent to area 12. root@vMX2# show ospf database displays asbrsummaryOS OSPF database, Area 0.0.0.12 Type ID Adv Rtr Seq Age Opt Cksun Len ASBRSum *3.3.3.3 2.2.2 0x80000001 1006 0x22 0xbe68 28 From the perspective of other routers, this device is now the source of the external path and the same logic we have seen previously applied. Here are some of the things I learned from labbing LSA. If you have something to add or noticed some inaccuracies, I'm always happy to hear your comments! Comments!

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