Cátedra:
Internetworking

Práctica 10
OSPFA

2002
Ejercicio 1
A partir de las consultas a un router que se listan a continuación diagrame la red OSPF.

```
router#sh ip ospf
Routing Process "ospf 65501" with ID 172.16.11.1
Supports only single TOS(TOS0) routes
It is an autonomous system boundary router
External Link update interval is 00:30:00 and the update due in 00:14:57
Redistributing External Routes from,
    connected, includes subnets in redistribution
eigrp 65500, includes subnets in redistribution
SPF schedule delay 5 secs, Hold time between two SPFs 10 secs
Number of DCbitless external LSA 1
Number of DoNotAge external LSA 0
Number of areas in this router is 1. 1 normal 0 stub 0 nssa
    Area BACKBONE(0)
        Number of interfaces in this area is 1
        Area has no authentication
        SPF algorithm executed 14 times
        Area ranges are
        Link State Update Interval is 00:30:00 and due in 00:00:41
        Link State Age Interval is 00:20:00 and due in 00:04:57
        Number of DCbitless LSA 2
        Number of indication LSA 0
        Number of DoNotAge LSA 0

router#sh ip ospf border-routers
OSPF Process 65501 internal Routing Table
Codes: i - Intra-area route, I - Inter-area route
i 172.16.11.2 [10] via 172.16.11.2, Ethernet0/0, ASBR, Area 0, SPF 14

router#sh ip ospf interface
Ethernet0/0 is up, line protocol is up
    Internet Address 172.16.11.1/24, Area 0
    Process ID 65501, Router ID 172.16.11.1, Network Type BROADCAST, Cost: 10
    Transmit Delay is 1 sec, State BDR, Priority 1
    Designated Router (ID) 172.16.11.2, Interface address 172.16.11.2
    Backup Designated router (ID) 172.16.11.1, Interface address 172.16.11.1
    Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
    Hello due in 00:00:05
    Neighbor Count is 1, Adjacent neighbor count is 1
    Adjacent with neighbor 172.16.11.2  (Designated Router)
    Suppress hello for 0 neighbor(s)
Ethernet0/0.1 is up, line protocol is up
    OSPF not enabled on this interface
Serial1/0 is up, line protocol is up
    OSPF not enabled on this interface
Serial1/1 is up, line protocol is up
    OSPF not enabled on this interface
Serial1/2 is up, line protocol is up
    OSPF not enabled on this interface
```
Serial1/3 is up, line protocol is up
OSPF not enabled on this interface
Serial1/4 is up, line protocol is up
OSPF not enabled on this interface
Serial1/5 is up, line protocol is up
OSPF not enabled on this interface
Serial1/6 is up, line protocol is up
OSPF not enabled on this interface
Serial1/7 is up, line protocol is up
OSPF not enabled on this interface
Serial2/0 is up, line protocol is up
OSPF not enabled on this interface
Serial2/1 is administratively down, line protocol is down
OSPF not enabled on this interface
Serial2/2 is down, line protocol is down
OSPF not enabled on this interface
Serial2/3 is down, line protocol is down
OSPF not enabled on this interface
Serial2/4 is up, line protocol is up
OSPF not enabled on this interface
Serial2/5 is down, line protocol is down
OSPF not enabled on this interface
Serial2/6 is up, line protocol is up
OSPF not enabled on this interface
Serial2/7 is administratively down, line protocol is down
OSPF not enabled on this interface

router#sh ip ospf neighbor

<table>
<thead>
<tr>
<th>Neighbor ID</th>
<th>Pri</th>
<th>State</th>
<th>Dead Time</th>
<th>Address</th>
<th>Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>172.16.11.2</td>
<td>1</td>
<td>FULL/DR</td>
<td>00:00:35</td>
<td>172.16.11.2</td>
<td>Ethernet0/0</td>
</tr>
</tbody>
</table>

router#sh ip ospf neighbor detail
Neighbor 172.16.11.2, interface address 172.16.11.2
In the area 0 via interface Ethernet0/0
Neighbor priority is 1, State is FULL
Options 2
Dead timer due in 00:00:31

router#sh ip ospf request-list 172.16.11.2 e0/0

Neighbor 172.16.11.2, interface Ethernet0/0 address 172.16.11.2

<table>
<thead>
<tr>
<th>Type</th>
<th>LS ID</th>
<th>ADV RTR</th>
<th>Seq NO</th>
<th>Age</th>
<th>Checksum</th>
</tr>
</thead>
</table>

router#sh ip ospf retransmission-list 172.16.11.2 e0/0

Neighbor 172.16.11.2, interface Ethernet0/0 address 172.16.11.2

router#sh ip ospf summary-address
OSPF Process 65501, Summary-address
Not configured
router#sh ip ospf virtual-links
**Internetworking – Práctica 10: OSPF**

```
router#
router#sh ip ospf database

OSPF Router with ID (172.16.11.1) (Process ID 65501)

Router Link States (Area 0)

<table>
<thead>
<tr>
<th>Link ID</th>
<th>ADV Router</th>
<th>Age</th>
<th>Seq#</th>
<th>Checksum</th>
<th>Link count</th>
</tr>
</thead>
<tbody>
<tr>
<td>172.16.11.1</td>
<td>172.16.11.1</td>
<td>571</td>
<td>0x8000050F</td>
<td>0xA499</td>
<td>1</td>
</tr>
<tr>
<td>172.16.11.2</td>
<td>172.16.11.2</td>
<td>567</td>
<td>0x8000050C</td>
<td>0xF7F8</td>
<td>2</td>
</tr>
</tbody>
</table>

Net Link States (Area 0)

<table>
<thead>
<tr>
<th>Link ID</th>
<th>ADV Router</th>
<th>Age</th>
<th>Seq#</th>
<th>Checksum</th>
<th>Tag</th>
</tr>
</thead>
<tbody>
<tr>
<td>172.16.11.2</td>
<td>172.16.11.2</td>
<td>562</td>
<td>0x80000083</td>
<td>0xAB53</td>
<td></td>
</tr>
</tbody>
</table>

Type-5 AS External Link States

<table>
<thead>
<tr>
<th>Link ID</th>
<th>ADV Router</th>
<th>Age</th>
<th>Seq#</th>
<th>Checksum</th>
<th>Tag</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0.0.0</td>
<td>172.16.11.2</td>
<td>446</td>
<td>0x80000500</td>
<td>0xB683</td>
<td>0</td>
</tr>
<tr>
<td>172.16.10.0</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x80000505</td>
<td>0x515D</td>
<td>0</td>
</tr>
<tr>
<td>172.16.10.4</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x80000034</td>
<td>0xC7BB</td>
<td>0</td>
</tr>
<tr>
<td>172.16.10.8</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x800003EE</td>
<td>0x21A0</td>
<td>0</td>
</tr>
<tr>
<td>172.16.10.12</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x80000009</td>
<td>0xCDD8</td>
<td>0</td>
</tr>
<tr>
<td>172.16.10.16</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x80000019</td>
<td>0x850D</td>
<td>0</td>
</tr>
<tr>
<td>172.16.10.20</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x8000002A</td>
<td>0x3B42</td>
<td>0</td>
</tr>
<tr>
<td>172.16.10.24</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x80000202</td>
<td>0x5D42</td>
<td>0</td>
</tr>
<tr>
<td>172.16.10.28</td>
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<td>0x8000002B</td>
<td>0xEB8B</td>
<td>0</td>
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<tr>
<td>172.16.10.32</td>
<td>172.16.11.1</td>
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<td>0x8000000A</td>
<td>0x38E</td>
<td>0</td>
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<tr>
<td>172.16.10.36</td>
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<td>0x8000003A</td>
<td>0x7AE2</td>
<td>0</td>
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<tr>
<td>172.16.10.40</td>
<td>172.16.11.1</td>
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<td>0x8000000A</td>
<td>0x8B2D6</td>
<td>0</td>
</tr>
<tr>
<td>172.16.10.52</td>
<td>172.16.11.1</td>
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<td>0x80000505</td>
<td>0x3548</td>
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<tr>
<td>172.16.11.0</td>
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<tr>
<td>172.16.12.0</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x8000000A</td>
<td>0x406C</td>
<td>0</td>
</tr>
<tr>
<td>172.16.13.0</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x8000000B</td>
<td>0x3377</td>
<td>0</td>
</tr>
<tr>
<td>172.16.14.0</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x80000003</td>
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<tr>
<td>172.16.15.0</td>
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<td>0x2985</td>
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<tr>
<td>172.16.16.0</td>
<td>172.16.11.1</td>
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<tr>
<td>172.16.17.0</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x8000000A</td>
<td>0x99E</td>
<td>0</td>
</tr>
<tr>
<td>172.16.18.0</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x80000003</td>
<td>0xCA1</td>
<td>0</td>
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<tr>
<td>172.16.19.0</td>
<td>172.16.11.1</td>
<td>1515</td>
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<td>0</td>
</tr>
<tr>
<td>172.16.20.0</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x8000000D</td>
<td>0xE1BF</td>
<td>0</td>
</tr>
<tr>
<td>172.16.21.0</td>
<td>172.16.11.1</td>
<td>1515</td>
<td>0x80000008</td>
<td>0xE0C4</td>
<td>0</td>
</tr>
</tbody>
</table>

router#sh ip ospf database asbr-summary internal

OSPF Router with ID (172.16.11.1) (Process ID 65501)

router#sh ip ospf database asbr-summary

OSPF Router with ID (172.16.11.1) (Process ID 65501)

router#sh ip ospf database database-summary

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OSPF Router with ID (172.16.11.1) (Process ID 65501)

<table>
<thead>
<tr>
<th>Area ID</th>
<th>Router</th>
<th>Network</th>
<th>S-Net</th>
<th>S-ASBR</th>
<th>Type-7</th>
<th>Subtotal</th>
<th>Delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxage</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>N/A</td>
<td>3</td>
</tr>
<tr>
<td>AS External</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24</td>
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<tr>
<td>Total</td>
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<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>27</td>
</tr>
</tbody>
</table>

**router#show ip database external**

OSPF Router with ID (172.16.11.1) (Process ID 65501)

Type-5 AS External Link States

Routing Bit Set on this LSA
LS age: 657
Options: (No TOS-capability, No DC)
LS Type: AS External Link
Link State ID: 10.0.0.0 (External Network Number)
Advertising Router: 172.16.11.2
LS Seq Number: 80000500
Checksum: 0xB683
Length: 36
Network Mask: /8
  Metric Type: 2 (Larger than any link state path)
    TOS: 0
    Metric: 20
    Forward Address: 0.0.0.0
    External Route Tag: 0

LS age: 1726
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.0 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 80000505
Checksum: 0x515D
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
    TOS: 0
    Metric: 20
    Forward Address: 0.0.0.0
    External Route Tag: 0

LS age: 1732
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.4 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 80000034
Checksum: 0xC7BB
Length: 36
Network Mask: /30
Metric Type: 2 (Larger than any link state path)
TOS: 0
Metric: 20
Forward Address: 0.0.0.0
External Route Tag: 0

LS age: 1745
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.8 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 800003EE
Checksum: 0x21A0
Length: 36
Network Mask: /30
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 1747
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.12 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 80000009
Checksum: 0xCDD8
Length: 36
Network Mask: /30
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 1748
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.16 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 80000019
Checksum: 0x850D
Length: 36
Network Mask: /30
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 1757
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.20 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 8000002A
Checksum: 0x3B42
Length: 36
Network Mask: /30
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 1759
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.24 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 80000202
Checksum: 0x5D42
Length: 36
Network Mask: /30
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 1759
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.28 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 8000002B
Checksum: 0xE88B
Length: 36
Network Mask: /30
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 1776
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.32 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 8000000A
Checksum: 0x38E
Length: 36
Network Mask: /30
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0
LS age: 1777
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.36 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 8000003A
Checksum: 0x7AE2
Length: 36
Network Mask: /30
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 1799
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.40 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 8000000B
Checksum: 0xB0D7
Length: 36
Network Mask: /30
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 1
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.10.52 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 80000506
Checksum: 0x3349
Length: 36
Network Mask: /30
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 2
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.11.0 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 80000508
Checksum: 0x406A
Length: 36
Network Mask: /24
Metric Type: 2 (Larger than any link state path)
TOS: 0
Metric: 20
Forward Address: 0.0.0.0
External Route Tag: 0

LS age: 91
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.12.0 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 8000000B
Checksum: 0x3E6D
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 92
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.13.0 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 8000000C
Checksum: 0x3178
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 94
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.14.0 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 80000004
Checksum: 0x367A
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 110
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.15.0 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 80000006
Checksum: 0x2786
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 112
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.16.0 (External Network Number )
Advertising Router: 172.16.11.1
LS Seq Number: 8000000A
Checksum: 0x1494
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 113
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.17.0 (External Network Number )
Advertising Router: 172.16.11.1
LS Seq Number: 8000000B
Checksum: 0x79F
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 124
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.18.0 (External Network Number )
Advertising Router: 172.16.11.1
LS Seq Number: 80000004
Checksum: 0xAA2
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0
LS age: 125
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.19.0 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 8000000A
Checksum: 0xF2B2
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 127
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.20.0 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 8000000E
Checksum: 0xDFC0
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

LS age: 137
Options: (No TOS-capability, DC)
LS Type: AS External Link
Link State ID: 172.16.21.0 (External Network Number)
Advertising Router: 172.16.11.1
LS Seq Number: 80000009
Checksum: 0xDEC5
Length: 36
Network Mask: /24
  Metric Type: 2 (Larger than any link state path)
  TOS: 0
  Metric: 20
  Forward Address: 0.0.0.0
  External Route Tag: 0

router#sh ip ospf database network

OSPF Router with ID (172.16.11.1) (Process ID 65501)

Net Link States (Area 0)

Routing Bit Set on this LSA
LS age: 1018
Internetworking – Práctica 10: OSPF

Options: (No TOS-capability, No DC)
LS Type: Network Links
Link State ID: 172.16.11.2 (address of Designated Router)
Advertising Router: 172.16.11.2
LS Seq Number: 80000083
Checksum: 0xAB53
Length: 32
Network Mask: /24
Attached Router: 172.16.11.1
Attached Router: 172.16.11.2

router#sh ip ospf database nssa-external

OSPF Router with ID (172.16.11.1) (Process ID 65501)

router#sh ip ospf database router

OSPF Router with ID (172.16.11.1) (Process ID 65501)

Router Link States (Area 0)

LS age: 1068
Options: (No TOS-capability, DC)
LS Type: Router Links
Link State ID: 172.16.11.1
Advertising Router: 172.16.11.1
LS Seq Number: 8000050F
Checksum: 0xA499
Length: 36
AS Boundary Router
Number of Links: 1

Link connected to: a Transit Network
(Link ID) Designated Router address: 172.16.11.2
(Link Data) Router Interface address: 172.16.11.1
Number of TOS metrics: 0
TOS 0 Metrics: 10

Routing Bit Set on this LSA
LS age: 1065
Options: (No TOS-capability, No DC)
LS Type: Router Links
Link State ID: 172.16.11.2
Advertising Router: 172.16.11.2
LS Seq Number: 8000050C
Checksum: 0xF7F8
Length: 48
AS Boundary Router
Number of Links: 2

Link connected to: a Transit Network
(Link ID) Designated Router address: 172.16.11.2
(Link Data) Router Interface address: 172.16.11.2
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Number of TOS metrics: 0
TOS 0 Metrics: 10

Link connected to: a Stub Network
(Link ID) Network/subnet number: 192.168.88.0
(Link Data) Network Mask: 255.255.255.0
Number of TOS metrics: 0
TOS 0 Metrics: 10

router#sh ip ospf database summary

OSPF Router with ID (172.16.11.1) (Process ID 65501)

Ejercicio 2
Luego de cambiar el tipo de métrica de 10.0.0.0/8 a Tipo 1 la salida es la siguiente. ¿Qué diferencia hay con el Ejercicio 1?

router#sh ip ospf database external 10.0.0.0

OSPF Router with ID (172.16.11.1) (Process ID 65501)

Type-5 AS External Link States
Routing Bit Set on this LSA
LS age: 233
Options: (No TOS-capability, No DC)
LS Type: AS External Link
Link State ID: 10.0.0.0 (External Network Number )
Advertising Router: 172.16.11.2
LS Seq Number: 80000501
Checksum: 0x3188
Length: 36
Network Mask: /8
Metric Type: 1 (Comparable directly to link state metric)
TOS: 0
Metric: 20
Forward Address: 0.0.0.0
External Route Tag: 0

Ejercicio 3
La siguiente salida se produce luego de cambiar la interfaz de la red 192.168.88.0/24 en el router 172.16.11.2 al area 1. Diagrame la red del Ejercicio 1 con este cambio.

router#sh ip ospf database summary 192.168.88.0

OSPF Router with ID (172.16.11.1) (Process ID 65501)

Summary Net Link States (Area 0)
Routing Bit Set on this LSA
LS age: 56
Options: (No TOS-capability, No DC)
LS Type: Summary Links (Network)
Link State ID: 192.168.88.0 (summary Network Number)
Advertising Router: 172.16.11.2
LS Seq Number: 80000001
Checksum: 0xD0B8
Length: 28
Network Mask: /24
  TOS: 0  Metric: 10

router#sh ip ospf database router 172.16.11.2

OSPF Router with ID (172.16.11.1) (Process ID 65501)

Router Link States (Area 0)

Routing Bit Set on this LSA
LS age: 154
Options: (No TOS-capability, No DC)
LS Type: Router Links
Link State ID: 172.16.11.2
Advertising Router: 172.16.11.2
LS Seq Number: 8000050E
Checksum: 0x89D1
Length: 36
Area Border Router
AS Boundary Router
Number of Links: 1

Link connected to: a Transit Network
  (Link ID) Designated Router address: 172.16.11.2
  (Link Data) Router Interface address: 172.16.11.2
  Number of TOS metrics: 0
  TOS 0 Metrics: 10