ospf

2008-7-21

2008-07-21

1\ 0!Q 3

1 ospfD +a uLÌ x » 4
1.1 fLö)à j .Ÿ 5
1.1.1 5•5 .• 5
1.1.2 J Ñ#q .A 6
1.1.3 uLÌ)àB‘ 7
1.2 Aú Ý uLÌ Ï 7
1.3 *AÞ > k5

1.....*2]/S..>...k5. 7.1.1.3.....

		z 5•&é S3750 ½RSR16E {L$C8ospf D +a •AÞ È ¦ 4 ¾otal stub j È ÐSR16E ; ,´ 5j-1D +a Ä z RTP-SW1 Aospf 160 Gý 6 ðspf 60 D +a & È Aî5ž metric 10 type 2; Aospf 60 Gý 6 ðspf 160 D +a & ÈAî5ž metric 10 type 2 z RTP-SW2 Aospf 160 Gý 6 ðspf 60 D +a & È Aî5ž metric 20 type 2; Aospf 60 Gý 6 ðspf 160 D +a & ÈAî5ž metric 20 type 2

1.1.2

z J Ñ#qGÿ!“h õ å ; Ö

BH-R——RTP-R-1——RTP-SW1——CORE-SW1

z ƒRTP-1 Å j F ;6„K.D] Ý & J Ñ#qGÿ Ö

BH-R——RTP-R-2——RTP-SW1——CORE-SW1

z J Ñ#qGÿ!“ h õ å ; Ö

CORE-SW1——RTP-SW-1——RTP-R1/2——BH-R

CORE-SW2——CORE-SW1——RTP-SW-1——RTP-R1/2——BH-R

CORE-SW2——RTP-SW2——RTP-SW-1——RTP-R1/2——BH-R

z ƒRTP-R-1 Å j F ;6„K.D] Ý & J Ñ#qGÿ Ö

CORE-SW1——RTP-SW-1——RTP-R2——BH-R

CORE-SW2——CORE-SW1——RTP-SW-1——RTP-R2——BH-R

CORE-SW2——RTP-SW2——RTP-SW-1——RTP-R2——BH-R

z RTP-SW-1 Å j & J Ñ#qGÿ Ö

CORE-SW1——CORE-SW2——RTP-SW-2——RTP-R1/2——BH-R

CORE-SW2——RTP-SW2——RTP-R1/2——BH-R

1.1.3

z BH-R-2 ,´ T ‘ :6„K.D < &] ÝC&RÈ Ô ’ j :,´BH J ÑD +a R a,´ uLÌ

1.2

1. X CORE Ô ’ j-;D +a>˜

```
GX_CORE_SW_1>show ip route | begin 60.32
O E2  60.16.248.200/30 [110/10] via 60.0.224.18, 1w1d, Vlan11
O E2  60.16.48.0/29 [110/10] via 60.0.224.18, 1w1d, Vlan11
S    60.0.32.0/24 [1/0] via 60.0.224.68, Vlan15
O E2       60.16.249.200/30 [110/10] via 60.0.224.18, 1w1d, Vlan11
O E2  60.16.49.0/28 [110/10] via 60.0.224.18, 1w1d, Vlan11

GX_CORE_SW2>show ip route | begin 60.32
O E2  60.16.248.200/30 [110/10] via 60.0.224.42, 1w1d, Vlan12
                               [110/10] via 60.0.224.1, 1w1d, Vlan10
O E2  60.16.48.0/29 [110/10] via 60.0.224.42, 2w1d, Vlan12
          [110/10] via 60.0.224.1, 2w1d, Vlan10
S    60.0.32.0/24 [1/0] via 60.0.224.68
O E2  60.16.249.200/30 [110/10] via 60.0.224.42, 2w1d, Vlan12
```

- GX_CORE_SW_1 O E2 60.32.0.0/16 [110/10] via 60.0.224.18, 1w1d, Vlan11

  GX_CORE_SW_2 O E2 60.32.0.0/16 [110/10] via 60.0.224.42, 2w1d, Vlan12

  [110/10] via 60.0.224.1, 2w1d, Vlan10

2. X RTP Ô ’ j-;D +a>˜

```
GX_RTP_SW_1>show ip route 60.80.0.0 255.255.0.0 long          er - prefixes
O IA  60.32      .0.0/17 [110/11] via 60.0.225.2, 07:01:33, GigabitEthernet1/1
O E2  60.32      .231.0/24 [110/10] via 60.0.224.17, 1w2d, GigabitEthernet3/1
GX_RTP_SW_2>show ip route 60.80.0.0 255.255.0.0 longer          - prefixes
60.0.0.0/8 is variably subnette          d, 561 subnets, 10 masks
```

O IA 60.32 .0.0/17 [110/16] via 60.0.225.10, 07:04:08, GigabitEthernet6/7
O E2 60.32 .231.0/24 [110/10] via 60.0.224.57, 1w2d, Vlan30
[110/10] via 60.0.224.41, 1w2d, GigabitEthernet3/1

- GX_RTP_SW_1 O IA 60.32.0.0/16 [110/7] via 60.0.225.6, 07:01:33, GigabitEthernet6/8 [110/7] via 60.0.225.2, 07:01:33, GigabitEthernet1/1

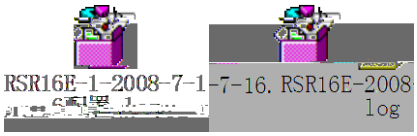
GX_RTP_SW_2 O IA 60.32.0.0/16 [110/12] via 60.0.225.14, 07:04:08, GigabitEthernet1/1

[110/12] via 60.0.225.10, 07:04:08, GigabitEthernet6/7 CORE-SW

60.32.0.0/16

3. -; RTP-SW ,¶!~t&.)À Ð

60.32.0.0/16 ge 17

```
        Number of interfaces in this area is 94
        Area has no authentication
        SPF algorithm executed 30737 times
        Area ranges are
    60.32.0.0/17 Active(1) Advertise
    60.32.0.0/16          Active  (10)  passiv  e
        Number of LSA 1034. Checksum Sum 0x20EB3DE
        Number of opaque link LSA 0. Checksum Sum 0x0
        Number of DCbitless LSA 73
        Number of indication LSA 0
        Number of DoNotAge LSA 0
        Flood list length 0
GX_LZ_R2>show ip ospf
 Routing Process "ospf 32" with ID 60.32.31.242
 Supports only single TOS(TOS0) routes
 Supports opaque LSA
 It is an area border and autonomous system boundary router
 Redistributing External Routes from,
    static with metric mapped to 1562,          includes subnets in redistribution
 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 457. Checksum Sum 0xDFB3B1
 Number of opaque AS LSA 0. Checksum Sum 0x0
 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 2. 2 normal 0 stub 0 nssa
 External flood list length 0
    Area BACKBONE(0)
        Number of interfaces in this area is          4
        Area has no authentication
        SPF algorithm executed 41650 times
        Area ranges are
        Number of LSA 505. Checksum Sum 0x109AFE5
        Number of opaque link LSA 0. Checksum Sum 0x0
        Number of DCbitless LSA 1
        Number of indication LSA 1
        Number of DoNotAge LSA 0
        Flood list length 0
    Area 32
        Number of interfaces in this area is 95
        Area has no authentication
        SPF algorithm executed 30738 times
        Area ranges are
```

1.4