

Inspired Innovation

TRT 模拟 OSPF 路由器



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测试拓扑:



1. 连接 SmartBits 机箱并占用测试端口

1) 点击 Tools→Setup Chassis Connections, 在弹出窗口中添加机箱 IP 地址, 点击 OK 退出后 按 F8 连接到机箱。



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2. 设置测试端口属性

1) 在下图方框勾出的栏中可以用下拉列表来设置端口物理层属性。

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2) 在 IP Config 中设置端口 IP 相关属性

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3) 在 Protocol 中选择端口要仿真的路由协议

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3. 创建 OSPF 路由器

1) 点击 OSPF→Areas,修改增加需要仿真的 OSPF 区域。

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2) 在 OSPF→Adjacences 中修改要仿真的 OSPF 路由器,可以通过右键的 New 来增加仿真路由器。



3) 在 Router-LSAs 中点击 LSA Generator...按钮来生成仿真的路由条目。

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4) Topology 标签页设置仿真的网络拓扑结构。Type 选择 OSPF 网络类型, Routers 定义仿真路 由器模拟的与 DUT 非直连路由器的数量。



5) 在 Stub Networks、Summary Routes 和 External Routes 中增加各种路由条目的数量并修改相关属性。



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6) 在 other 中设置生车路由条目所使用的地址范围和生成路由条目的选项。

7) 点击 OK,在弹出窗口中确认正确后点击 Apply 应用配置。

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4. 运行测试,查看和分析测试结果

1) 点击按钮栏 Result Collection,在弹出窗口的 Event Log 标签中勾上仿真 OSPF 的端口。



2) 在结果窗口的下拉列表中选择 OSPF

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- STP	Port	State	Tester IP Address	Prefix Length	Area ID	Tester Router ID	VPI/VCI	Interface Cost	TE Metric	TE Params	1
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3) 点击 Adjacencies,在右边窗口中点击右键然后点击 Start Router 启动仿真路由器。

Card Setup Card S ₩ 🕑 Number of OSPF ports: 2 Show Columns » Apply Default Addresses Number of adjacencies: 2 VLAN 🔽 Authentication 🙀 U... <mark>暑</mark>с... TE Metric State Tester IP Address Prefix Length Area ID Tester Router ID VPI/VCI TE Params Port Interface Cost SMB 1 01-192.86.0. 192.86.1 DR/Da 0.0.0.0 192.86.0.3 0.0.0. 4 • Q Q 75% 💌 🗼 Update 🔺 Layout 🛛 🛃 Edit Diagram -SUT SU8401-1 SIL8#01-0 1 192,86.1.3 • 1 4 1 Date Event Log • OSPF • 2010-2-12 5-03-50 ▲ Port Event Type Time (sec) Received Hellos Sent He... Received DD Sent DD Rece Rout Entity Direction State Parameters Router State Protocol Port SMB 1 01-0 192.86.0.3 Tx 2638.16 RID = 192.86.0.3, AID SMB 1 01-0 192.86.0.3 DR/Down DR 19 0 6 OSPF Hello 0 0 0 OSPF SMB 1 01-1 192.86.1.3 Ro Backup Hello 2641.32 RID = 192.86.1.1, AID SMB 1 01-1 192.86.1.3 Backup/Full 19 19 e OSPF 2643.67 RID = 192.86.1.3, AID SMB 1 01-1 192.86.1.3 Backup Hello OSPF SMB 1 01-0 192.86.0.3 Tx DR Hello 2648.16 RID = 192.86.0.3, AID OSPE SMB 1 01-1 192.86.1.3 R Backup Hello 2651.33 RID = 192.86.1.1. AID SMB 1 01-1 192.86.1.3 2653.67 RID = 192.86.1.3, AID OSPF Tx Backup Hello OSPE SMB 1 01-0 192.86.0.3 DR Hello 2658.16 RID = 192.86.0.3, AID 2661.34 RID = 192.86.1.1, AID EN OSPF SMB 1 01-1 192.86.1.3 Hello R Backup ? OSPE SMB 1 01-1 192.86.1.3 Tx Backup Hello 2663.67 RID = 192.86.1.3, AID DR Hello Hello 2668.16 RID = 192.86.0.3, AIC * 8 OSPF SMB 1 01-0 192.86.0.3 Tx OSPF SMB 1 01-1 192.86.1.3 Rx Backup 2671.33 RID = 192.86.1.1, AID 0.00 Tx OSPF SMB 1 01-1 192.86.1.3 Backup Hello 2673.67 RID = 192.86.1.3, AID -• 5:48 Gonnections=1 Cleaning up test...