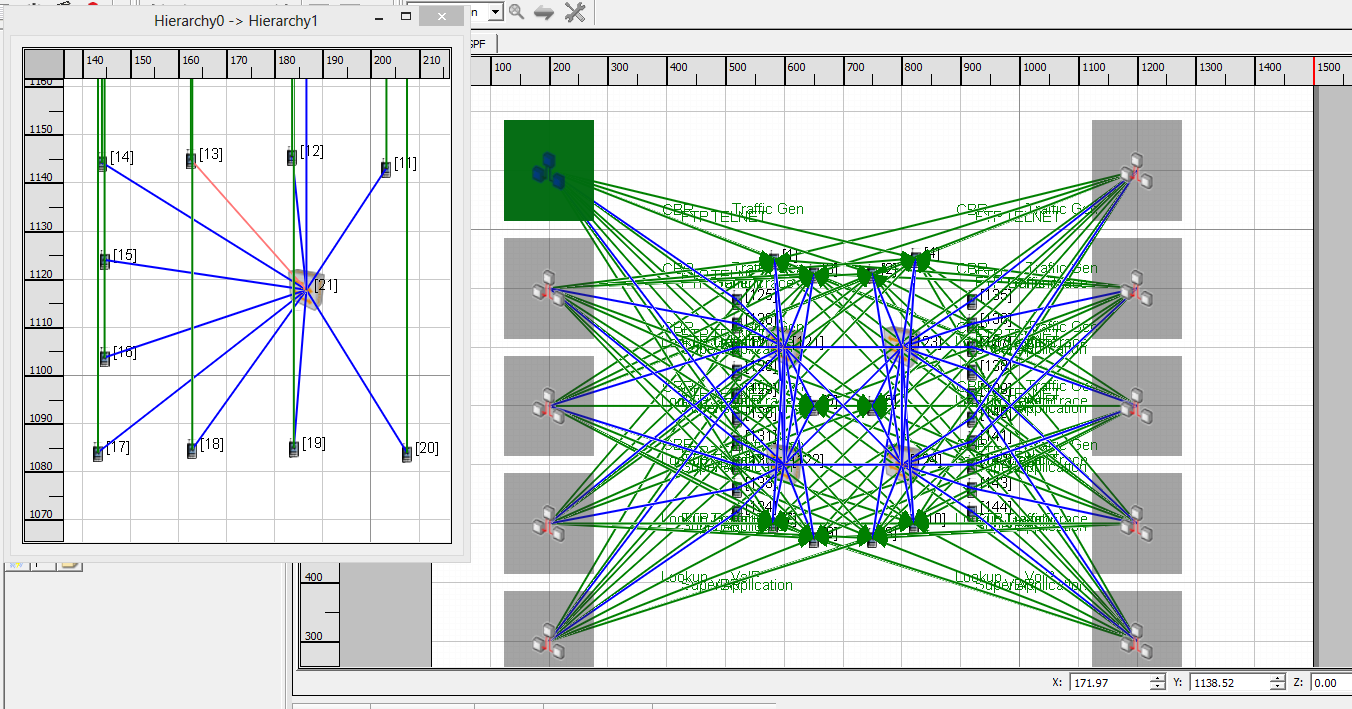
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SCENARIO PURPOSE: Small scale Layer 3 switched Ethernet networks in QualNet and EXata

SCENARIO:



There are four Ethernet Switches that form a fully meshed wired network backbone. Each switch has a default device acting as a layer 3 switch port linked with a 1 Tbps to the switch. The default device facilitates assigning a subnet IP address to the network spooked from the switch as EXata / QualNet Ethernet Switches do not support layer 3 switching definitions. One hundred nodes are connected in groups of ten to Ethernet switches. The ten Ethernet switches are then dual homed to the core network via 100 Mbps Ethernet. The routing protocol is OSPF. Application traffic is from the end device to an “application server”.

APPLICATIONS:

CBR: Source - 11, 22, 33, 44, 55, 66, 77, 88, 99, 110; Destination - 1

FTP: Source - 12, 23, 34, 45, 56, 67, 78, 89, 100, 111; Destination - 3

FTP/GENERIC: Source – 13, 24, 35, 46, 57, 68, 79, 90, 101, 112; Destination - 5

LOOKUP: Source – 14, 25, 36, 47, 58, 69, 80, 91, 102, 113; Destination - 7

SUPER-APPLICATION: Source – 15, 26, 37, 48, 59, 70, 81, 92, 103, 114; Destination - 9

TELNET: Source – 16, 27, 38, 49, 60, 71, 93, 104, 115; Destination - 2

TRAFFIC-GEN: Source – 17, 28, 39, 50, 61, 72, 83, 94, 105, 116; Destination - 4

TRAFFIC-TRACE: Source – 18, 29, 40, 51, 62, 73, 84, 95, 106, 117; Destination - 6

VBR: Source – 19, 30, 41, 52, 63, 74, 85, 96, 107, 118; Destination - 8

VOIP: Source – 20, 31, 42, 53, 64, 75, 86, 97, 108, 119; Destination - 10

DESCRIPTION OF THE FILES:-\

1. Wired-100NodedOSPF.app - QualNet configuration file for application input.
2. Wired-100NodedOSPF.config - QualNet configuration input file.
3. Wired-100NodedOSPF.expected.stat - QualNet statistics collection.
4. Wired-100NodedOSPF.nodes - QualNet configuration file for node position.
5. Wired-100NodesOSPF.endpoint – Terminal Address File.
6. Wired-100NodesOSPF.trc – QualNet configuration file for Traffic Trace.
7. Wired-100NodesOSPF README.docx – This File source.
8. Wired-100NodesOSPF README.pdf – This file Distributable.