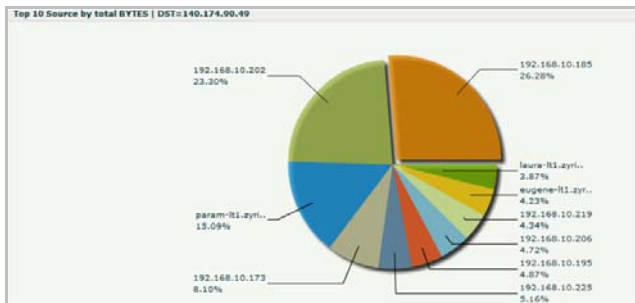


TOP-N DESTINATIONS AND SOURCES

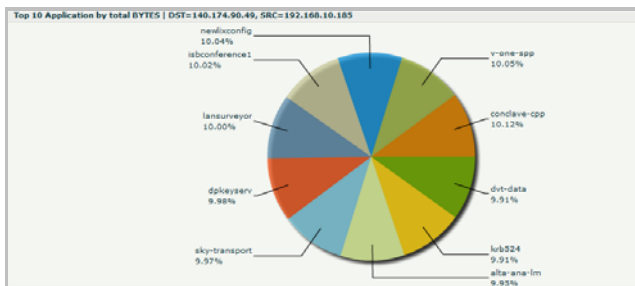
From the various devices status views, a user can drill down and invoke the network flow view to identify top-N destinations and sources of traffic.

| Top 10 Destination by total BYTES | |
|---|------------|
| IP Address | bytes |
| 75.52.125.78 | 3532634071 |
| 140.174.90.49 (zyrion.com) | 142540771 |
| 98.210.99.98 (c-98-210-99-98.hsd1.ca.comcast.net) | 123293653 |
| 76.220.36.65 (76-220-36-65.lightspeed.sntcca.sbcglobal.net) | 89647330 |
| 173.243.50.185 (173-243-50-185.ip.mozyops.net) | 35444211 |
| 69.253.168.219 (c-69-253-168-219.hsd1.nj.comcast.net) | 34165692 |
| 69.107.65.121 (adsl-69-107-65-121.dsl.pln13.pacbell.net) | 24623212 |
| 173.194.25.13 | 18804712 |
| 216.115.212.30 (216-115-212-30.expertcity.com) | 6754455 |
| 216.115.214.54 (216-115-214-54.expertcity.com) | 5994075 |

The user can specify the time-period for which flow analysis is to be performed, the metric of interest (e.g. bytes, packets, flows) and the number of sources or destinations to include in the analysis. The flow data can be displayed as a matrix, column chart or pie chart.



For a given source, the specific applications can be viewed as well, and then finally the history of the traffic generated by a particular application can be viewed.



VIEWING NETWORK-WIDE FLOW ANALYSIS DATA

In the most common mode of use, data is displayed for a single source or destination device. But, users can reset the views in the network flow analysis console to have the scope of data be expanded to the entire network. This provides a network-wide view of the top-N sources, destinations, or applications. Users can then click through to get detailed device data as described earlier.

SOLUTION ARCHITECTURE

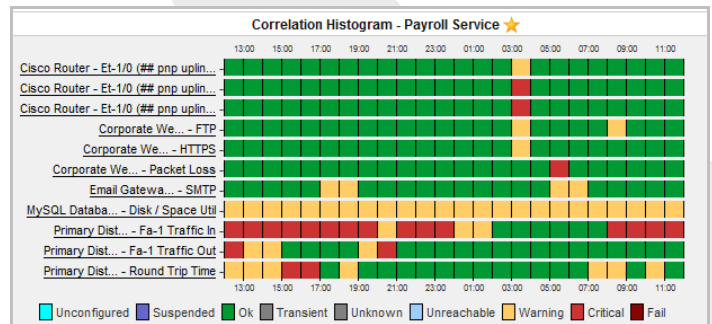
To enable network flow analysis integration in Traverse, the following components need to be configured:

- Traverse DGE
- Traverse Flow Analysis Engine (flowqueryd)
- NetFlow Collector (3rd party or Traverse pre-integrated collector)
- Router or switch that exports flow records

The network flow analysis integration in Traverse is extremely flexible and can be easily extended to integrate with many different network flow data collectors. This is done through customizing the flowquery daemon to query flow data from different collector components. The DGE queries the network flow data from the flowquery daemon, which fetches the data from the flow collector and returns it to the DGE. This data is then processed and displayed in Traverse.

VISUAL CORRELATION CAPABILITIES

In addition to providing Network Flow to aid problem and root-cause analysis at a detailed level, Traverse provides the ability to view a correlation histogram to identify sources of service degradation at a higher-level. This enables isolating problem areas to drill deeper, and if desired, initiate flow analysis.



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