2013-01-14, Performance BoF

Aaron Brown

Centrally-Managed perfSONAR tests

perfSONAR Toolkit Model

- Each perfSONAR Toolkit is a testing island
  - The Configuration GUIs are focused on configuring the tests that this host should perform
  - The Graphing GUIs only display results for tests that this host is performing

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Virtual Organization Model

- Each perfSONAR Toolkit is a part of a group, or multiple groups, of hosts
  - Needs to look at the performance of the system as a whole
  - Needs to ensure the individual instances are performing appropriate tests
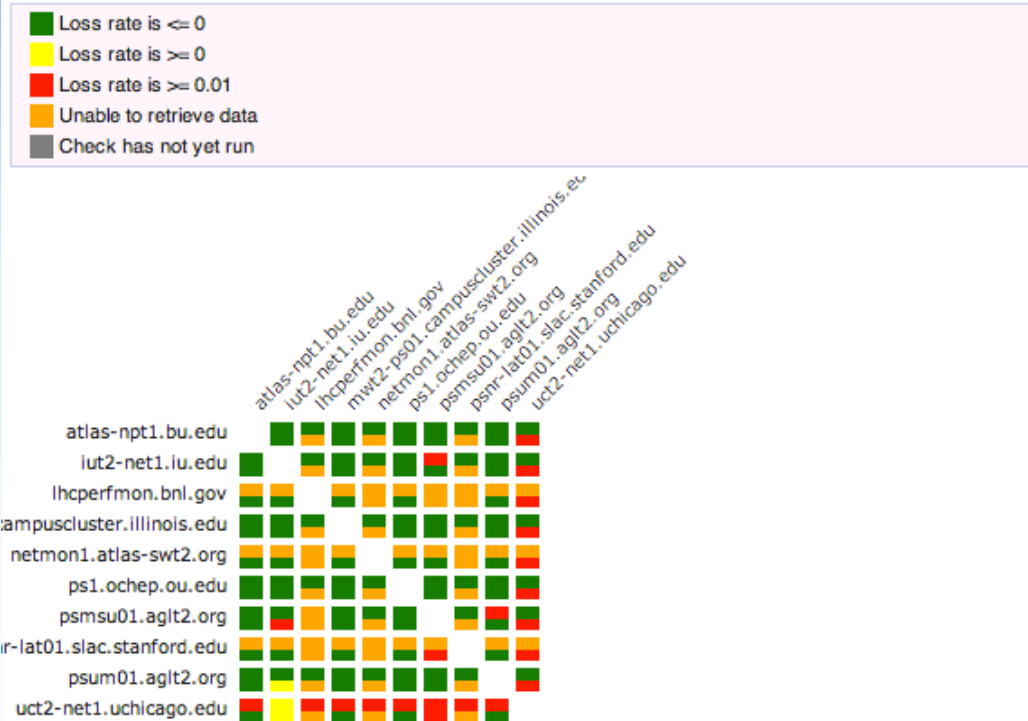
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perfSONAR Mesh Configuration

- Central description of the "Mesh"
  - Contains descriptions of the organizations, sites and hosts involved
  - Contains the set of tests to be performed by each host
- Each Toolkit is configured to download the central description, and perform the tests that the host has been told to perform
  - Regularly, regrab the Mesh description, and update the set of tests to be performed

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perfSONAR Mesh Configuration

- Benefits
  - Allows for centralized configuration
  - Enables GUIs that better understand the mesh
  - Gives users, and administrators insight into what the mesh should be doing

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USATLAS Mesh - OWAMP Test Between USATLAS Latency Hosts

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- A GUI to build meshes

perfSONAR Mesh Configuration Plans

- Agent software supported on the next Toolkit release
  - Dashboard GUI may not be integrated, but should be available immediately
- GUI to build mesh configuration files
- Improved dashboard GUI

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Beta Testers

- We're very interested in getting folks to test. If folks are interested and willing to help, send email to aaron@internet2.edu

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2013-01-14, Performance Working Group

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For more information, visit www.internet2.edu