

perfSONAR update

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perfSONAR is developed by a partnership of









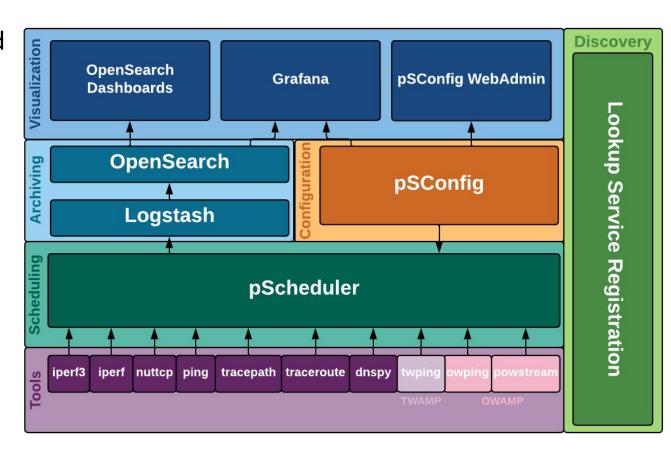






What is perfSONAR?

- An open source software collaboration led by ESnet, GEANT, Indiana University, Internet2, RNP and the University of Michigan.
- Goal is to provide network
 measurements between organizations
 to help identify and troubleshoot
 network issues. Most commonly these
 include (but are not limited to):
 - Throughput
 - Packet Loss
 - One-way latency
 - Traceroute













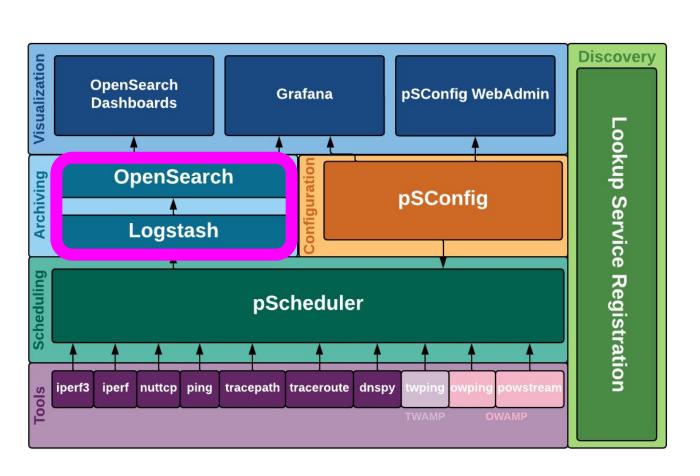




perfSONAR 5.0

Change of Archiving (backend)

Replace in-house development by common and versatile open-source components. (was Esmond)















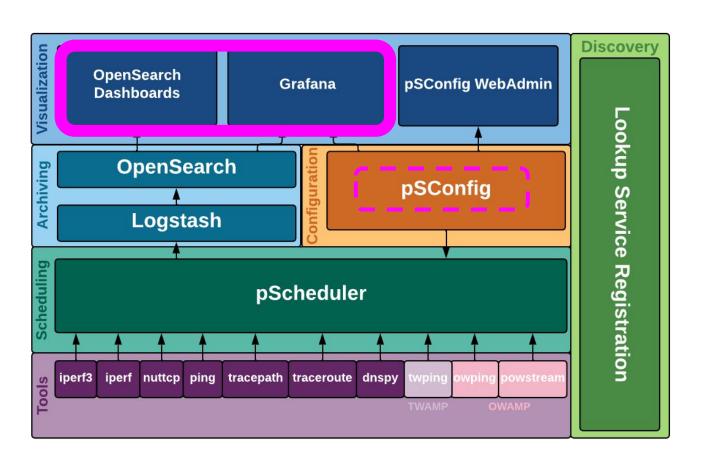




perfSONAR 5.1

New visualisation layer

Replace in-house development by common and versatile open-source components. (was pS Graphs)

















perf5. PNAR 5.1.4 (17/10/24)

New Grafana Interface

- · Customizable visualization, better integration with other data
- Threaded iperf3 Support
 - Ability to test at 100Gbps+
- Python pSConfig
 - · Better maintainability of more modern codebase
- Better Instrumentation and Troubleshooting Tools
 - Makes it easier to identify issues when perfSONAR misbehaves
- New OS Support
 - Debian 11, Debian 12 and Ubuntu 22 support. On top of EL9 (Alma, Rocky) and Ubuntu 20.



Image: New default Grafana UI







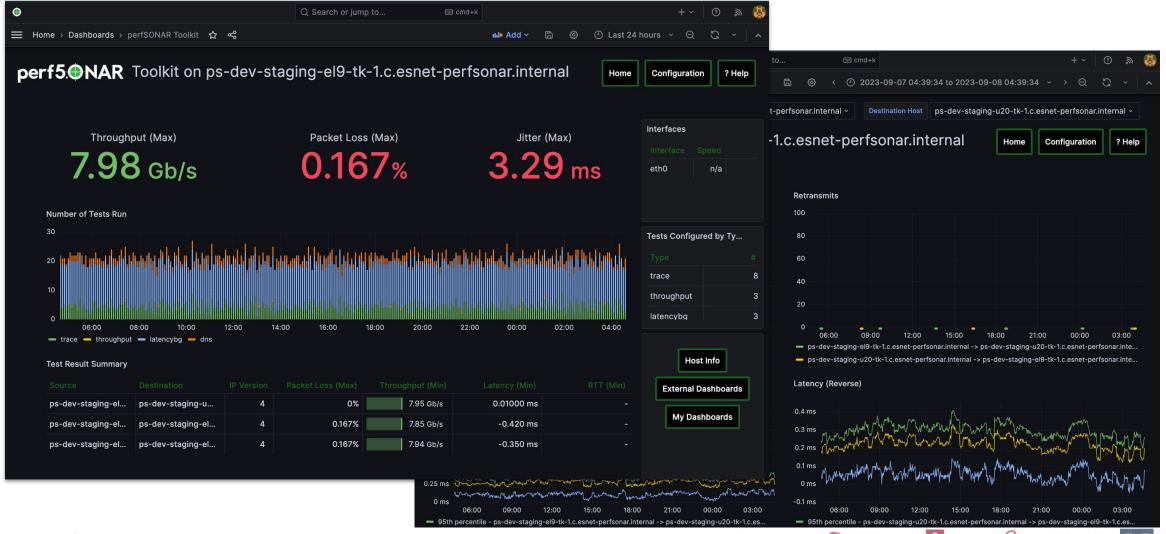








New UI: Focus on Measurements







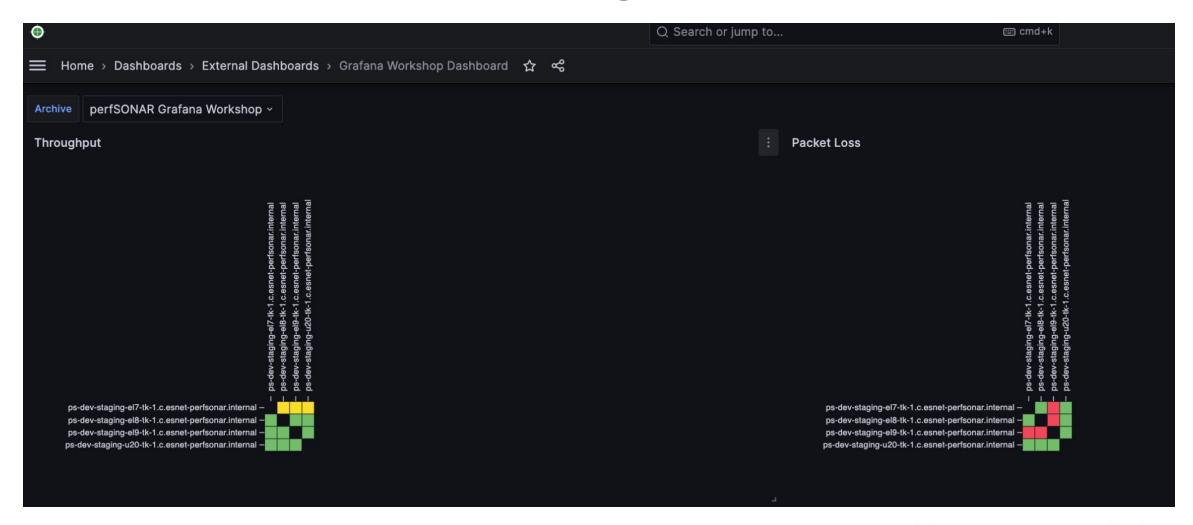








New UI: MaDDash Integration















psarchive troubleshoot

```
[root@ps-dev-staging-el9-tk1 andy] # psarchive troubleshoot
OpenSearch running ..... OK
Logstash running ..... OK
OpenSearch API (Localhost) ..... OK
Logstash Endpoint (Localhost) ..... OK
OpenSearch API (HTTPS Proxy) ..... OK
Logstash Proxy Credentials ..... OK
Logstash Endpoint (HTTPS Proxy) ..... OK
Logstash->OpenSearch Credentials ..... OK
Logstash->OpenSearch Authentication ..... OK
OpenSearch Data Exists ..... OK
```







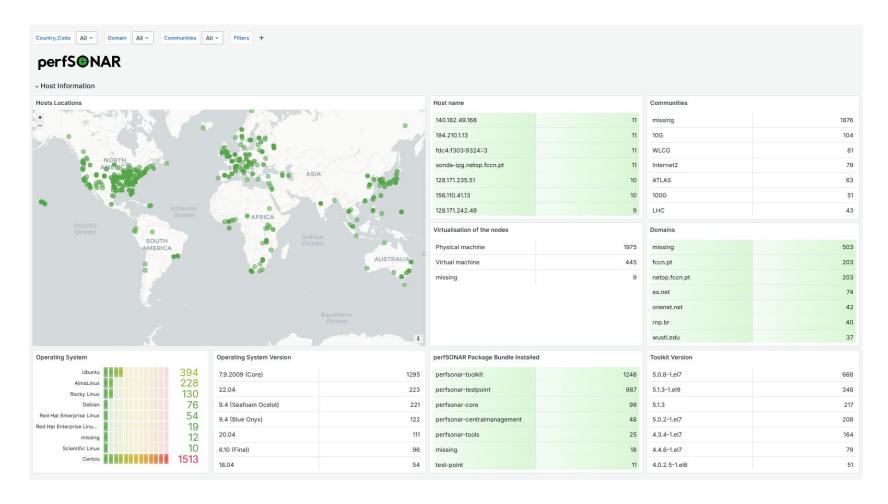








LS dashboard refreshment





https://stats.perfsonar.net/







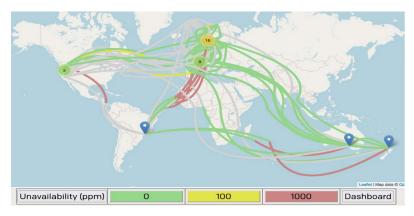


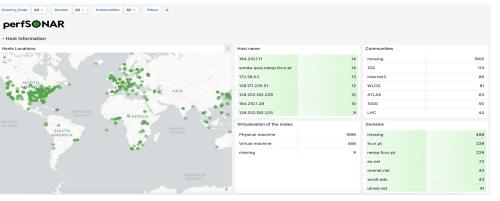




Actively working on 5.2 and 5.3

- 5.2: upgrade of dependencies (Grafana, OpenSearch) and Ubuntu 24
- New features for 5.3:
 - psCompose: Improving test configuration experience
 - On-demand measurement UI
 - Micro-dependency analysis
 - Lookup service enhancements
 - Exploring PTP support







How do I get perfSONAR 5.1.4?

- perfSONAR 5.1.4 is the latest production release
- Install instructions are <u>here</u>
- New install script (to run as root):

```
curl -s
https://downloads.perfsonar.net/install |
sh -s - toolkit
```

Is being deployed on PMP nodes and GÉANT hosts.

Install Instructions



https://docs.perfsonar.net/install quick start











