



perfSONAR General Update

Ivan Garnizov

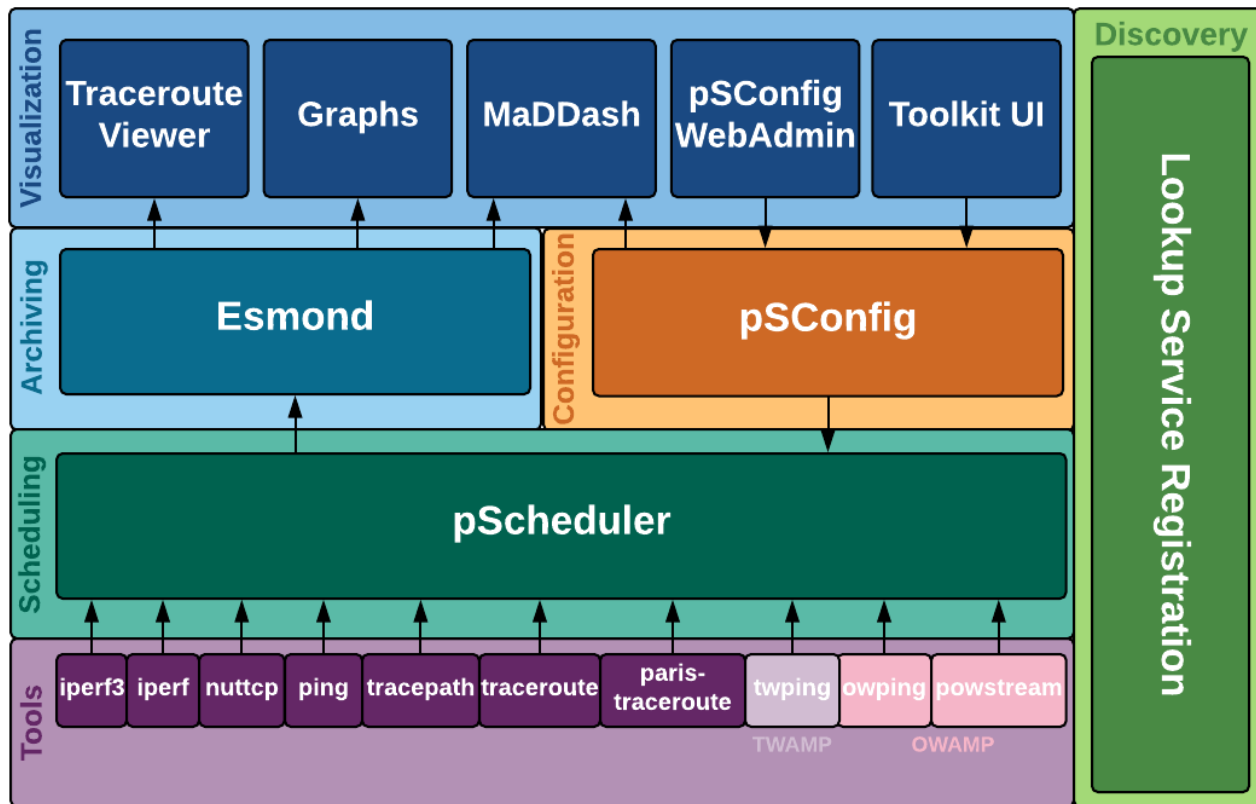
FAU DFN

GN4-3 WP6 T3

SIG-PMV, Dublin, Ireland, 02/07/2019

www.geant.org

perfSONAR framework architecture



perfSONAR
powered



perfSONAR Last Release: 4.1.6

- 4.1 in August 2018
 - pSconfig
 - TWAMP
- 4.1.6 in February 2019
 - Bug fixes
- About one major release a year

perfSONAR
powered

Upcoming perfSONAR 4.2

- New features
 - Disk-to-disk (GridFTP) plug-in - Significant interest from research community and others.
 - Measurement pre-emption (priorities) - Easier for ad hoc tests to get a slot on busy hosts
 - Additional pSConfig utilities - Continuing to make meshes easier to build and manage through command-line and graphical interfaces
 - Lookup Service improvements - Bulk renewals and record signing (as building blocks for validation of records)
- Improved reliability, bug fixes
- Final stop for BWCTL support
- Debian 8 support is being dropped

Current high level roadmap

- *4.2-beta* this July
- 4.2 final by end of summer
- 4.3 with python 3 support before end of year
- 4.4 with new visualisation options early 2020
- 4.5 during 2020
- And always patch releases whenever needed

perfs-ONAR
powered



Preparing the 4.2 Release

- Already tested by developers on dev test mesh
- Now ready for beta testing by users
 - To be tested for a few weeks
 - Correcting all pending and newly found bugs
 - Incrementally releasing corrected packages
- Release Candidate (RC)
 - Have 2 weeks without issue before final release
 - As many RC as needed
- **We welcome your help with testing!**

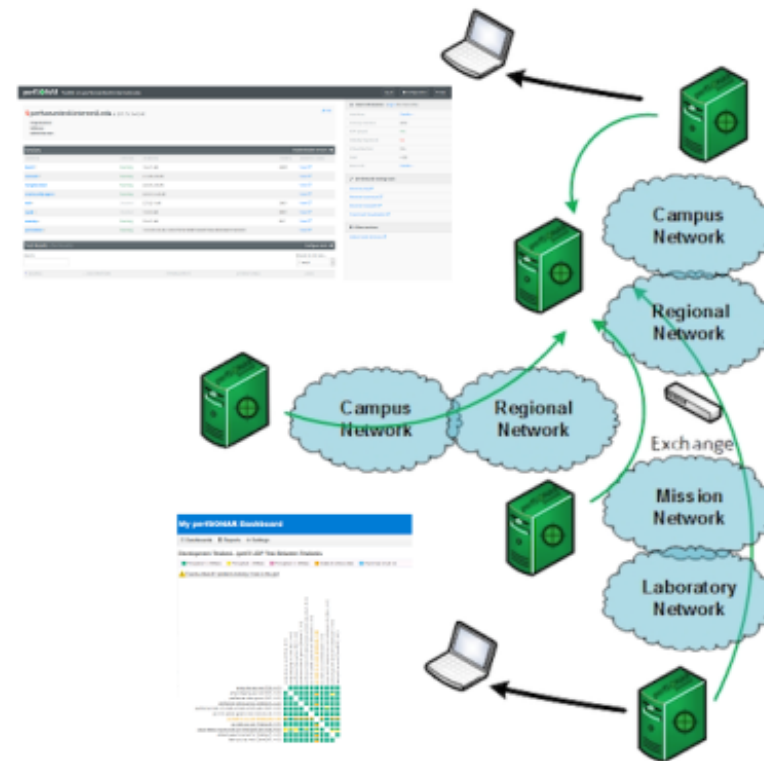
perfSONAR Consultancy and Expertise Service

- perfSONAR team is ready to help!
- Started with GN4-2, in SA2T3
- Continued in GN4-3, in **WP6T3**
- **8 persons:**
 - Antoine, Erik, Ivan, Ljubomir, Szymon, Tsoetne, Victor, Zurab
 - Different skills and availability...
- **6 organisations:**
 - CARnet, FAU DFN, GÉANT, GRENA, Jisc, PSNC



Help with what?

- Designing and establishing a **performance testing plan**
- Preparing and planning **perfSONAR deployments**
- Setting up a central server
 - For archiving
 - To show dashboards
- Any other **perfSONAR** configuration or deployment issue



Workshops and trainings

- GN4.2:
 - Zurich
 - Manchester
 - Dwingeloo
 - TNC18
 - Cambridge
- 1st European perfSONAR Workshop

perfSONAR
powered

perfSONAR at GEANT and partners

- GEANT Operations
- PSNC
- Jisc
- DFN
- NORDUnet
- SURFnet



Ongoing and new requests

- **PRACE**
 - perfSONAR deployments and central server setup (archive and dashboard)
- **LoLa** project in WP6 incubator
 - Latency and Jitter measurements
- **CNaaS** initiative in WP6 incubator
 - Test in VPN/LNNS
- **RENATER**
 - Central archiving and dashboard
- **AzScienceNet**



Get in touch with us!

- Email
 - GÉANT WP6T3 team: perfsonar@lists.geant.org
 - perfsonar user list: subscribe at <https://lists.internet2.edu/sympa/info/perfsonar-user>
- GÉANT project Slack: #gn4-3-wp6
- Youtube channel
 - <https://www.youtube.com/perfSONARProject/>
- Websites
 - <https://www.perfsonar.net>
 - <https://docs.perfsonar.net>



Thank you

Any questions?

www.geant.org



© GÉANT Association on behalf of the GN4 Phase 3 project (GN4-3).
The research leading to these results has received funding from
the European Union's Horizon 2020 research and innovation
programme under Grant Agreement No. 856726 (GN4-3).