

perfSONAR roadmap update

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perfSONAR

- The perfSONAR Collaboration
- Roadmap
 - Strategy
 - Annual Survey Results
 - What's coming in the next release









The perfSONAR Collaboration

- Open Source project lead by ESnet, GÉANT, Indiana University, and Internet2
 - Each organisation has committed 1.5 FTE effort to the project
 - Additional help from many in the community (OSG, RNP, SLAC and more ...)
- The perfSONAR roadmap is influenced by
 - requests on the project issue tracker
 - annual user surveys
 - meetings with VOs such as WLCG, OSG
 - discussions at various perfSONAR related workshops
- Based on the above, every 6-12 months the perfSONAR Steering Group meets to prioritise features







perfSONAR Vision

 Grow perfSONAR to be the ubiquitous, indispensible performance monitoring framework for R&E network customers that meets their needs in the long-term, supported in a self-sustaining way so as to enable frictionfree science





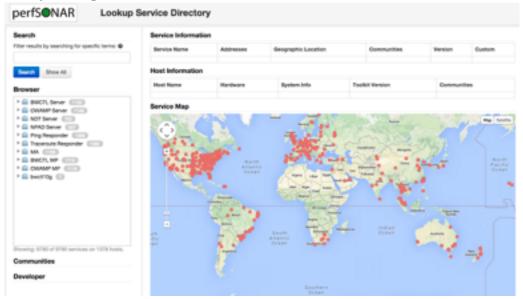


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Who is running perfSONAR

~2000 publicly registered servers



http://stats.es.net/ServicesDirectory/

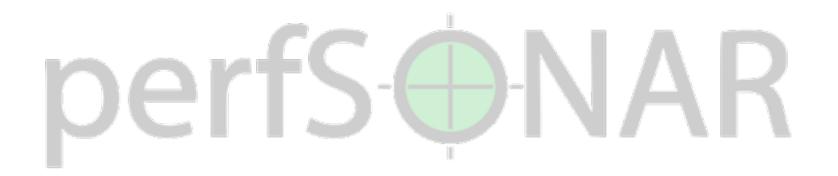
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INTERNET.



perfSONAR: What's next in the roadmap







Roadmap Strategy

- 2 releases per year
 - 1 major, 1 minor
- Exploratory tasks in parallel during each release schedule
 - Ideas from user groups, results of annual survey, developers
 - Results and CBA-based analysis to decide if it makes it into the next version as a feature

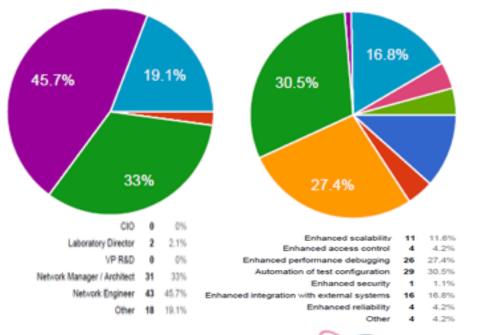






Annual Survey Results

• Conducted in January 2016



Satisfaction

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- 71% satisfied/highly satisfied
- 26% neutral, 2% dissatisfied
- Technical trends
 - Need for Debian 8 and CentOS 7 support
 - Enhanced performance debugging
 - Integration with other tools...



Upcoming Release: perfSONAR v4.0

Themes

- Control
 - Better control over tests (authorisation, schedule management)
- Scalability
 - Robustness to scale deployment per campus to 100 nodes
- Was expected to be released in late September/ October, got pushed to December







perfSONAR v4.0 - Features

- New and improved test scheduler: pScheduler
 - For fine-grained, better control (authorisation, schedule management)
 - Shared awareness of resource usage by other tests
- Web interface for test meshes
- Easier selection of endpoints, based on
 - geographic location
 - accessibility
 - custom searches
- Increased support on Debian 8, CentOS 7 debian







CentOS



Post 4.0

- Roadmap still in discussion, 4 tracks:
 - Operations Efficiency
 - Automation of Configuration, Execution and Analysis
 - Performance of the Cloud
 - Care and Feeding
- Both Research and Development tasks
- 4.0.1 Early 2017
- 4.1 September 2017 (I2 TechEX)



