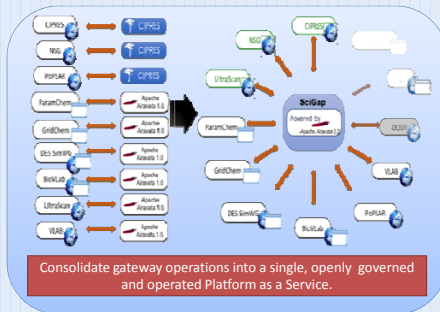


Science Gateways Platform as a Service

Project Vision



UltraScan

Apache Airavata

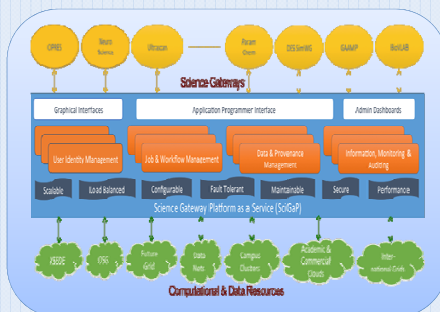
- Airavata is open source software for managing scientific application and workflow executions on remote resources.
 - XSEDE
 - Clouds
 - Local Clusters
 - International resources
- We use Airavata to power science gateways.
- Apache Software Foundation: Beyond Open Source

Software is really open source if you can give back to the project.

Open Governance

- Open source projects need developer diversity.
- Need incentives for CI projects to diversify their developer bases.
- How do you govern an open project with diverse stakeholders?
- Our approach: Apache Software Foundation

Target Architecture



NSG

Project Year 1

- Release Airavata 1.0 with API based on design documents and community input.
- Design and begin implementing multi-tenanted SciGaP (Airavata 2.0).
- Convert UltraScan to use SciGaP
- Begin conversion of NSG to SciGaP
- Initiate Net+ evaluation

More Information

- Web site: <http://scigap.org>
- SciGaP GitHub: <https://github.com/SciGaP/>
- Apache Airavata: <http://airavata.apache.org>
- CIPRES: <http://www.phylo.org/index.php/portal/>
- NSG: <http://www.nsgportal.org>
- UltraScan: <http://www.ultrascan.uthscsa.edu/>

Collaboration



CIPRES

Project Years 2-5

- Year 2: Initial Operations
 - Centralized SciGaP service for UltraScan, NSG
- Year 3: Full Operations
 - UltraScan, NSG, CIPRES using SciGaP services
- Year 4: Broadening Usage Base
 - SciGaP scalable to selected external partners
- Year 5: Accelerating Growth
 - SciGaP scalable generally



NSF GRANT

SciGaP is funded by the National Science Foundation's Software Infrastructure for Sustained Innovation (SI2) program through award #'s 1339774, 1339856, and 1339649.