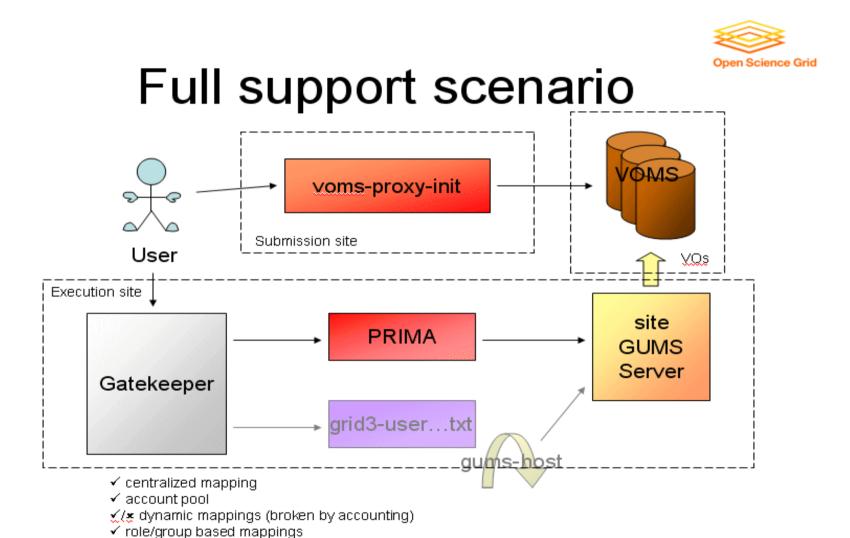
Status of GUMS (Grid User Management System)

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Brief History and Context

- Apache/Tomcat Web Service. In VDT/OSG.
- Periodically caches VOMS contents.
- Provides mapping from X.509 proxy DN (Distinguished Name) to a UNIX user account.
 e.g. '/DC=org/DC=doegrids/OU=People/CN=John R. Hover 47116' -> agrd1234
- Mappings can be flexibly specified by host, VO, group, and Role.
- Clients: Globus gatekeeper, glExec, dCache gPlazma

GUMS in Action.



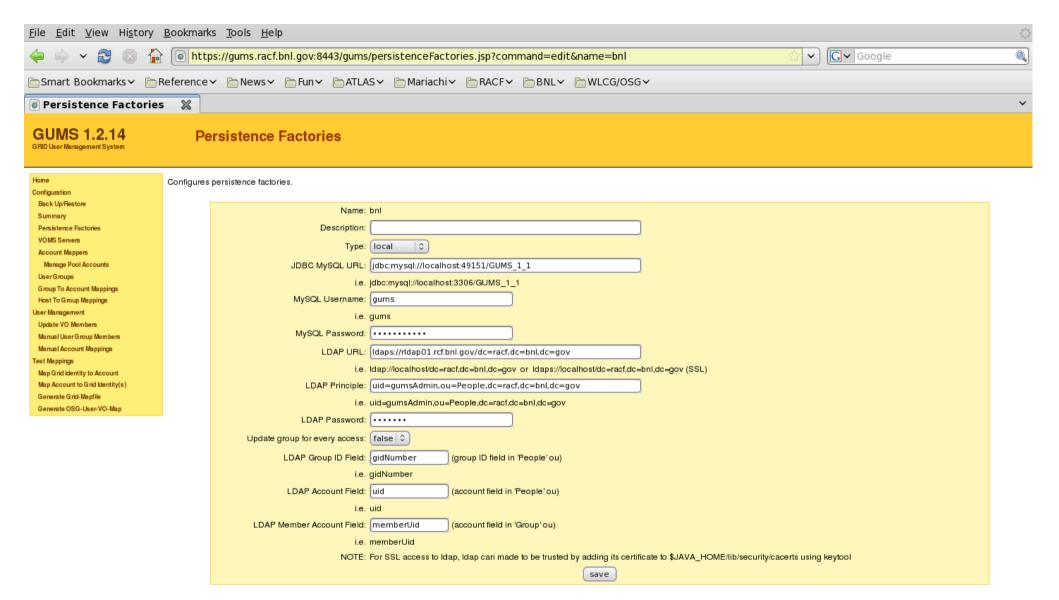
Notable Features

Current version is 1.2.14

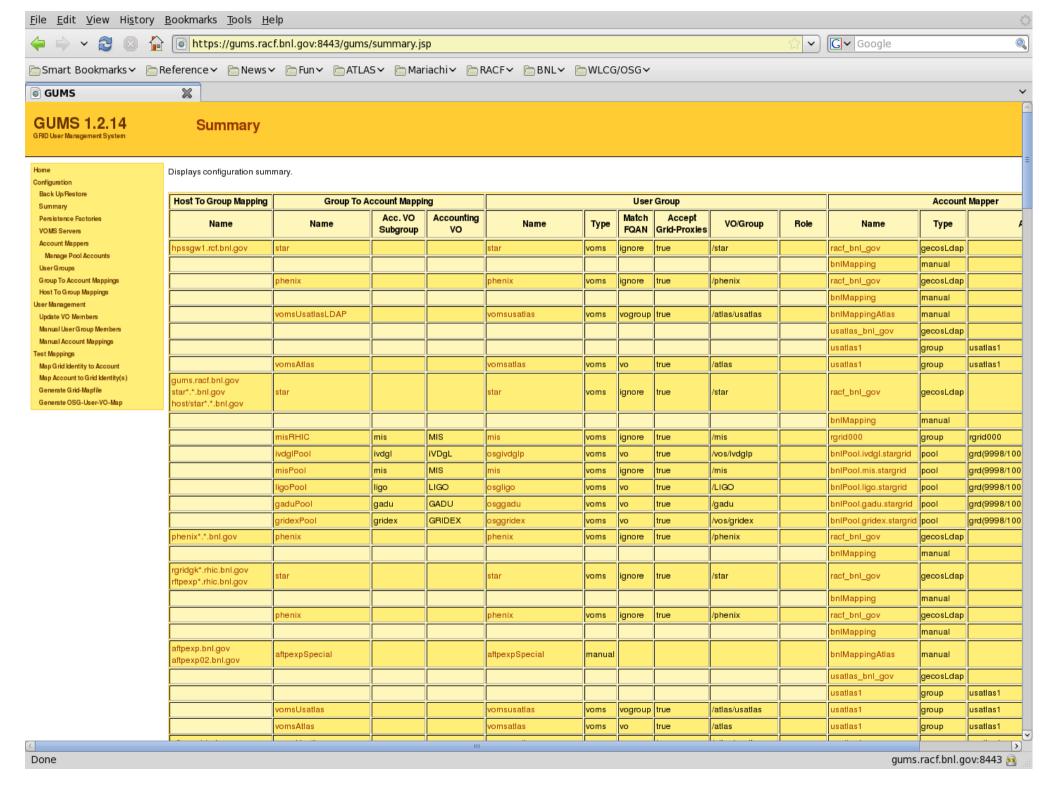
- Fully flexible mapping definitions.
- Flexible User list sources (VOMS, LDAP, Manual).
- Support for pool accounts—UNIX accounts mapped on demand, with group(s) set in LDAP.
- Enterprise-grade: full unit and functional test coverage, Maven project management, nightly integration builds, automated deployment.

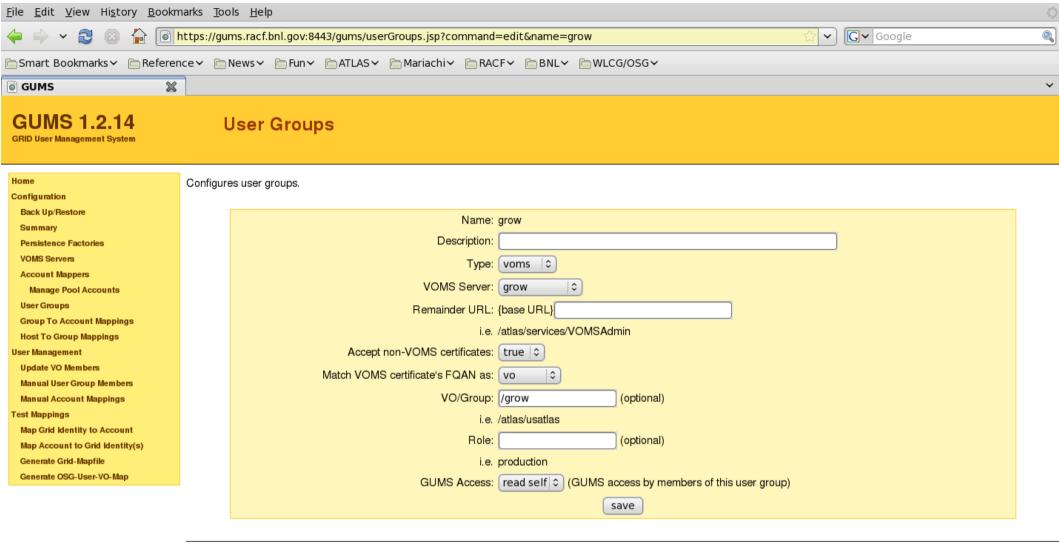
Most Recent Feature Additions

- Complete configuration via web-based graphic user interface—no more editing XML! (Which also required restructuring of internal configuration representation.)
- Detailed configuration summary in GUI.
- Configuration backup and restore via GUI.
- dCache-specific gridmap file type.
- More fine-grained read-access based on request host and user DN.
- Addition of LDAP as back-end 'database'.



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You are signed in as /DC=org/DC=doegrids/OU=People/CN=John R. Hover 47116





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Current Work/Future Directions

- Convert LDAP (and other) interactions to a plugin architecture, allowing more flexibility and user-written plugins. Use LDAP as a UserGroup source (rather than VOMS). (LIGO request)
- Recycleable pool accounts (if user community desires).
- Clustered GUMS (2 GUMS servers sharing back-end database), behind DNS round-robin or virtual IP.

People and Sites

- Original design and development: Gabrielle Carcassi
- Current lead developer: Jay Packard <jpackard@bnl.gov>
- Current lead designer: John Hover <jhover@bnl.gov>
- Maven-generated web site: https://www.racf.bnl.gov/Facility/GUMS/1.2/