

Tools & Topics for Ongoing Administration

Wiki Home	Download Grouper	Grouper Guides	Community Contributions	Developer Resources	Grouper Website
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Tools & Topics for On-Going Administration

[Grouper UIs](#) - Information on web-based user interfaces provided with Grouper.

[GrouperShell](#) - Documentation for the *gsh* command line utility.

[Grouper Daemon](#) - Documentation for background processing including: GrouperLoader, notifications and membership expiry.

[Grouper Client](#) - Experimental client for Grouper LDAP and Web Services.

[Ldappc-ng](#) - Documentation for the LDAP Provisioning Connector.

[Ldappc](#) - Documentation for the original LDAP Provisioning Connector.

[User Audit Log](#) - How to review who made what changes and when.

[Move and Copy](#) - How to move / copy groups or stems.

[Notification](#) - Grouper can incrementally provision external systems.

[Attribute framework](#) - As of v1.5 Grouper has a framework for assigning metadata to grouper objects.

[Custom Group Types & Fields](#) - What they are and how to create and delete them.

[Role and permission management](#) - Grouper v1.5+ allows external applications to central management roles and permissions in Grouper

[Enabled and disabled dates](#) - Memberships can be set to apply only in the future, or for a certain period of time

[Grouper automatically delete old data](#) - Delete old audit, point in time, or folder objects in grouper

[Import/Export Tool](#) - Documentation for the XML Import/Export tool.

[Legacy Import/Export Tool](#) - Documentation for the original XML Import/Export tool.

[Unresolvable Subject Deletion Utility](#) - Documentation for the command line *usdu* tool.

[Bad Membership Finder Utility](#) - Documentation for the *findbadmemberships* command line script.

[Shibboleth Integration](#) - Grouper as a Data Connector Extension for Shibboleth.

[ESB Connector](#) - Integrating Grouper with an event-driven ESB architecture.

[Grouper integration with Kualu Rice](#) - Use Grouper groups in Kualu applications and middleware, and use Kualu Enterprise Workflow in Grouper groups management.

[Security patches](#)