

# Tools & Topics for Ongoing Administration

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[GrouperShell](#) - The `gsh` command line utility.

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

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

[Grouper Diagnostics](#) - Gives the health of Grouper

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

[Web Services](#) - Exposing common Grouper business logic through SOAP and REST

[Always Available Web Services and Client](#) - Web services that do not have a single point of failure.

[Attribute Framework](#) - A framework for assigning metadata to Grouper objects.

[Grouper Reporting](#) - Flexible reporting capability

[Grouper subject filter and attribute decorator](#) - Restrict access to Subject attributes.

[Grouper local entities](#) - Manage access within Grouper for Subjects not managed in a Subject Source.

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

[Point in Time Auditing](#) - Query the state of Grouper in the past.

[Organizing Services In Grouper](#) - Allows filtering of the registry by a service.

[Import/Export Tool](#) - Documentation for the XML Import/Export tool and other data migration approaches.

[Custom Group Types & Fields](#) - (Deprecated as of Grouper 2.2)

[Grouper overall summary administrative report](#) - daily email report of status of Grouper

[Grouper Security Issues and Patches](#)

[Ongoing Administration Tasks](#) - Suggestions for ongoing Grouper administration tasks, including pruning the logs and registry, performing monitoring, and setting up notifications.