

v4 new features

Wiki Home	Grouper Release Announcements	Grouper Guides	Grouper Deployment Guide	Community Contributions	Internal Developer Resources
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New Features in Grouper v4

Grouper v4 includes many helpful new features, as listed below, as well as the enhancements provided in Grouper 2.5 updates.

**** As of March 2023, [Grouper v4](#) is the stable no-enhancement version of v2.6. See [versioning page](#) ****

The upgrade from 2.5 (more recent) to v4 is not a substantial change. The database did not change much.

You are required to use a container when running Grouper. This will ensure you have consistent directory structure, the correct version of libraries, and low risk and low effort upgrades. There are [instructions](#) to make using the container as easy as possible.

See also [Grouper 2.6 Release Notes \(renamed to v4\) \(build info\)](#)

Provisioning framework	The Grouper provisioning framework is being maintained and finished in v4
Provisioning configuration 'start with'	Common patterns for provisioning configuration
JEXL scripted groups	More complex policies than traditional composites
Edit select attributes on group screen	Certain common attributes can be viewed/edited on group screen
Load data from provisioners	Add loader for provisioners (not SQL or LDAP) like Duo or Zoom
Add WS authn options	Trusted JWT WS, self-service JWT WS, OIDC WS
Duo role provisioner	Admin roles provisioned to Duo
Box provisioner	Provisioning to box
SQL provisioner	Provisioning to databases
Azure provisioner	Provisioning to azure
Provisioning diagnostics	Get feedback on provisioning configuration
Google provisioner	Provisioning to google
Folder security and performance improvements	Users only see folders they should be able to see, with good performance. Add folder VIEW privilege
OSGI plugins	Ability to sandbox plugins in their own classloader