Oregon State University Grouper Project Page

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Oregon State University deployed Grouper v2.2.1 to production in Spring 2015 and upgraded to v2.3.0 in Winter 2017.

See slides from the IAM Online of June 2015, pages 3-9

Current

- Loader & PSP
    - Reference groups populated from multiple source databases
    - Groups provisioned to LDAP/AD for SP authz
    - Examples: pac-12 and xfinity streaming, student athlete printing, office365

- ChangeLogConsumer
    - Provision, activate, de-activate external service accounts when user's status changes at the university. (See **External Service Accounts** below.)
    - Group and membership provisioning to external services (See **Service Groups** below.)

- Hook
    - GroupName validation for configured stem (See **Service Groups** below.)

- Web Services
    - Integrated into several processes (change username, update display name, update email alias) so that external accounts are consistent with the data source.
    - Integrated into user account deletion process to delete all immediate memberships to make sure all ad-hoc memberships are also cleaned up.
    - Used by other IT units to populate groups, create lists from groups, etc.

Possible Future Plans

- Deprovisioning (aging out services and sending out notifications)
- PSPNG
- Release permission groups to AWS management console via SAML entitlements (Shibboleth)
- Course groups to Canvas, AD/LDAP, Google (Loader/Messaging)
- Google Apps Grouper Provisioner
- Rules (notify certGroup admin when user is removed from employee's group)

External Service Accounts

- Extend ChangeLogConsumerBase class
- Override processChangeLogEntries
- Check for changes in
    - WebEx: webex staff/students group
    - Kaltura: All Users group
    - Box: Box-eligible employee group
- Call API/web services to change user's account status whenever the following change types occur:
    - ChangeLogTypeBuiltin.MEMBERSHIP_ADD
    - ChangeLogTypeBuiltin.MEMBERSHIP_DELETE
- WebEx reference: https://developer.cisco.com/media/webex-xml-api/311SetUser.html
- Kaltura reference: http://www.kaltura.com/api_v3/testmeDoc/index.php?page=overview
- Box reference: https://docs.box.com/reference

Service Groups

(Planned deployment Spring/Summer 2017)

Service Groups is a stem in Grouper that houses groups and memberships intended for external services such as Box. It's further sub-divided by IT service organization where the Grouper group management is delegated.

- Components
    - UI - Slightly modified Unicon's provisioning target UI to add support for group provisioning with additional attributes.
    - Hook
        - GroupNameValidationHook
        - Configurable:
            - uniqueness
            - case sensitivity
            - reserved names
            - name and displayExtension length

- - - parentStem where validation should be done. (Can configure multiple stems with their own set of config.)
  - Consumer
    - Provision/deprovision groups and their memberships to/from external services, eligibility-check can also be included.
    - Update attributes on external service groups, if configured.
- Supports
  - Box
    - Group name uniqueness is ensured by the hook
    - Group name, description, invitability, visibility and membership are all managed through Grouper.
    - Box group ID is saved as an attribute on Grouper group.
    - Grouper group uuid is saved in Box group.
  - Support for other external services can be added by updating config files, attributes, and the consumer.