

University of Washington Groups Service

Groups at UW

- 40,000 course groups
 - Keep only one year of courses
- 2,000 institutional groups
 - No manual maintenance
- 4,000 ad hoc groups
 - Anyone with UWNetId can create

Subjects

- 600,000 UW NetIDs (people and things)
- 1,500 DNS names
- 50,000 groups
- 1,200 AD computer names
- 100 ePPNs

- Anyone with a uwNetID
 - Get the GUI representations
- Any app with a UWCA certificate
 - Get the plain representations

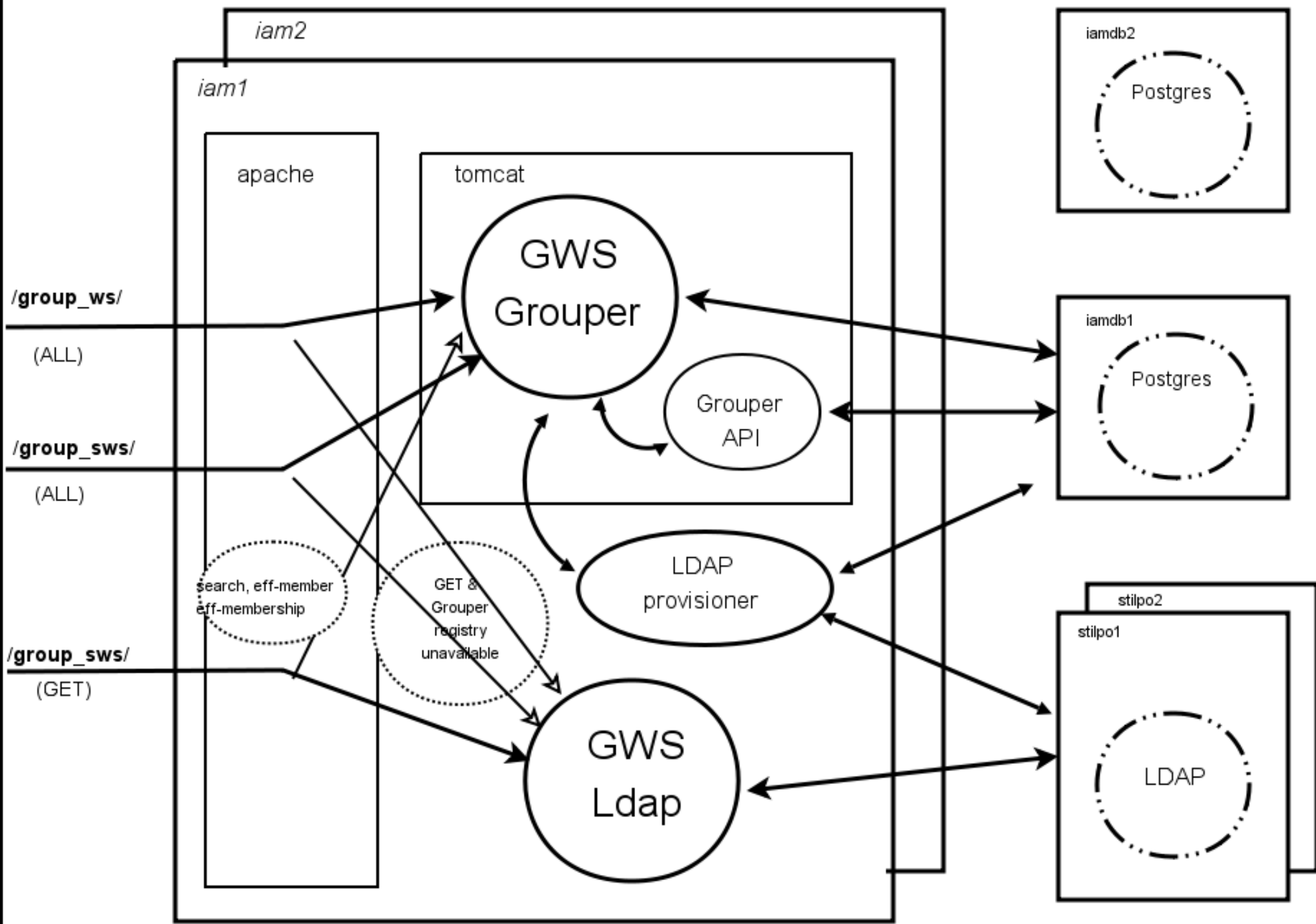
Group Registry

- Prior to this year used LDAP as DB
- Since 07/2010 using Grouper as registry
 - Mostly use the Java API
 - Some use of gsh (me only)
- Auto-convert ':' to '_'
- All subject sources in Grouper DB

GWS service

- Provided by Spring and Velocity
- RESTful service resources:
 - Group
 - Member(s)
 - Search
 - (AJAX queries also)
- GUI by embedded javascript

- 93% GET
 - 66% Effective groups for member
 - 13% Effective membership of a group
- Shibboleth client requires quick response
 - Effective groups for user
 - < 100ms response
 - 100% availability



Dependent systems - I

- Activity table in Grouper DB
 - Updated by hook classes
 - Group info change
 - Membership change
 - Affiliate attributes
 - e.g. provision-to-google

Dependent systems - II

- Provisioner daemon monitors activity
 - Local LDAP updated directly
 - Other affiliates by RMS messaging

Dependent systems - III

Message headers:

- Target system

- Group name

- Type of activity

Message body (encrypted)

- Details of activity

Institutional groups

- Groups auto-generated from UW data
- Courses (keep one year)
- Students by major
- Departments by employee, budget, etc
- Person categories
 - Grad-student, staff, ...