JBoss Community

Identity Management and SSO for jboss.org Community Systems

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Agenda

- Something about JBoss Community
- jboss.org user accounts management
- SSO Login server for jboss.org
- CAS SSO protocol details



JBoss Community

- Open Source middleware
- Java and other JVM-based languages
- Led by Red Hat
- 150+ OSS projects, not only JBoss Application Server ;-) Aero ear es
- www.jboss.org

























JBoss Community Team

- Red Hat's dedicated team to support JBoss Community
- Part of team are Software engineers and System administrators dedicated to develop and operate systems for Collaborative Open Source software development
- HW already provided by Red Hat



Main jboss.org Systems

- CMS for Project web pages www.jboss.org
 - Magnolia CMS
- Development Forums, Wiki, Blogs community.jboss.org
 - SBS by Jive Software
- Issue Tracker & Agile Project Management issues.jboss.org
 - JIRA with GreenHopper by Atlassian
- Documentation Editor docs.jboss.org
 - Confluence by Atlassian
- Source Code Repositories svn.jboss.org
 - Subversion
- Source Code Analysis and Reviews source.jboss.org
 - FishEye with Crucible by Atlassian
- Maven Repository repository.jboss.org
 - Nexus by Sonatype
- and the many others

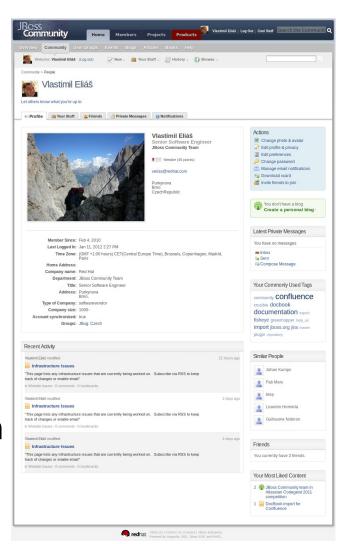


jboss.org User Account

- Self-registration for jboss.org user accounts
- Many services need the user accounts
- Centralized system for user profile and authentication data management
 - User: Register (email validation), Edit profile,
 Change password, Forgot my username,
 Forgot my password
 - Admin: Search user, Edit user, Disable user,
 Delete user

User Profile Data

- Shared user profile data
 - Username
 - Full name
 - Email
 - Avatar image
 - (Password)
- Extra user profile data per service
 - UI preferences, Notification settings, ...
 - Managed by each service



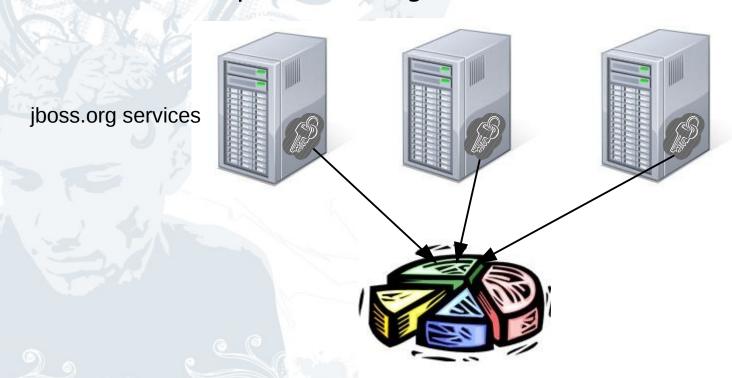
Authorization

- No centralized solution for authorization
- Each service uses its own authorization system
 - User groups
 - User roles
 - Permissions
- Centralized user roles/groups management complicated due
 - inconsistent projects/subprojects structures
 - differences in distinct services authorization systems



User Profile Sharing Architecture

- Shared user database
- Custom authenticators for services
 - Create/update profile record in service's DB
 - Check password (login, RPC calls)



SSO Login System Requirements

- Login once, access all services
- Web technology (http/s)
- Subdomains used (*.jboss.org)
- Support of various web browsers
- Simple extensibility of login flow (postlogin hooks)
- Simple implementation into services
- Simple HA cluster
- "Remember me" feature



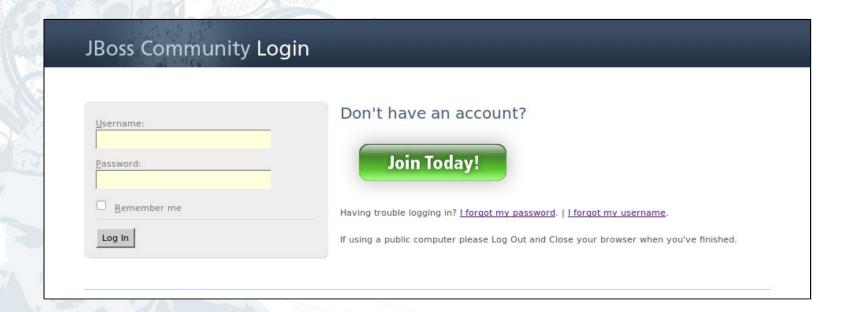
Central Authentication Service

- Authentication system originally created by Yale University
- Open-source Java server component
- Library of clients for Java, .Net, PHP, Perl,
 Apache and others
- Open and well-documented protocol + SAML support
- http://www.jasig.org/cas



SSO Login System User GUI

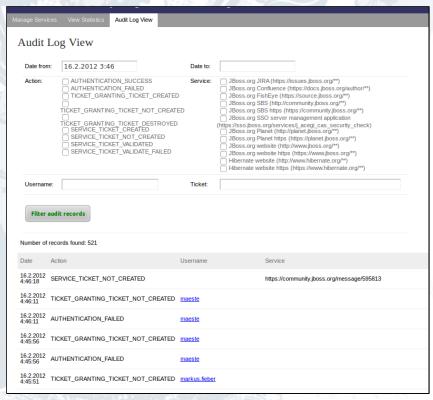
sso.jboss.org





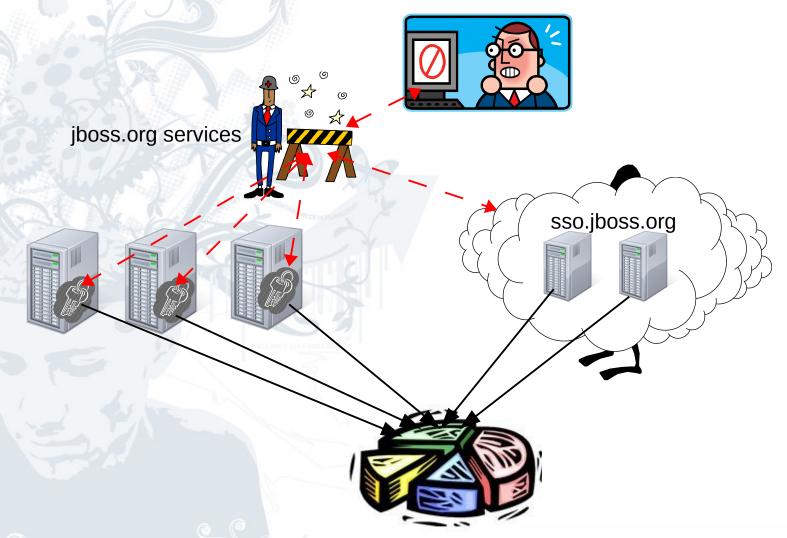
SSO Login System Admin GUI

- Audit log browser
- System informations



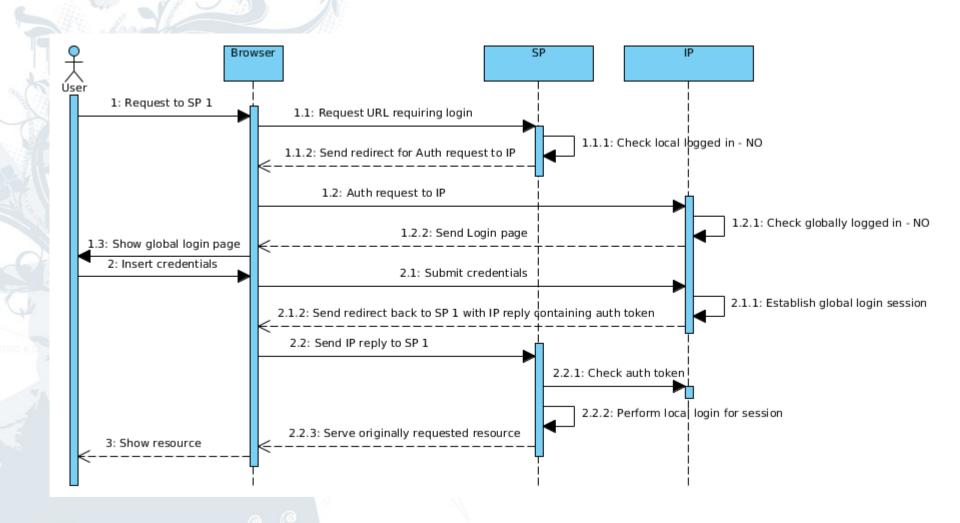


SSO Login System Architecture



JBoss Community

CAS SSO Protocol Details



CAS SSO Protocol Details

- Gateway mode
 - Login form is not shown to user if SSO session is not established
 - No service ticket returned to SP in this case
 - Useful for SP allowing anonymous access
- Renew mode
 - Login form is always shown to user
 - Useful for SP not participating in SSO due sensitive data



Questions & Discussion



Thank you!

JBoss Community