



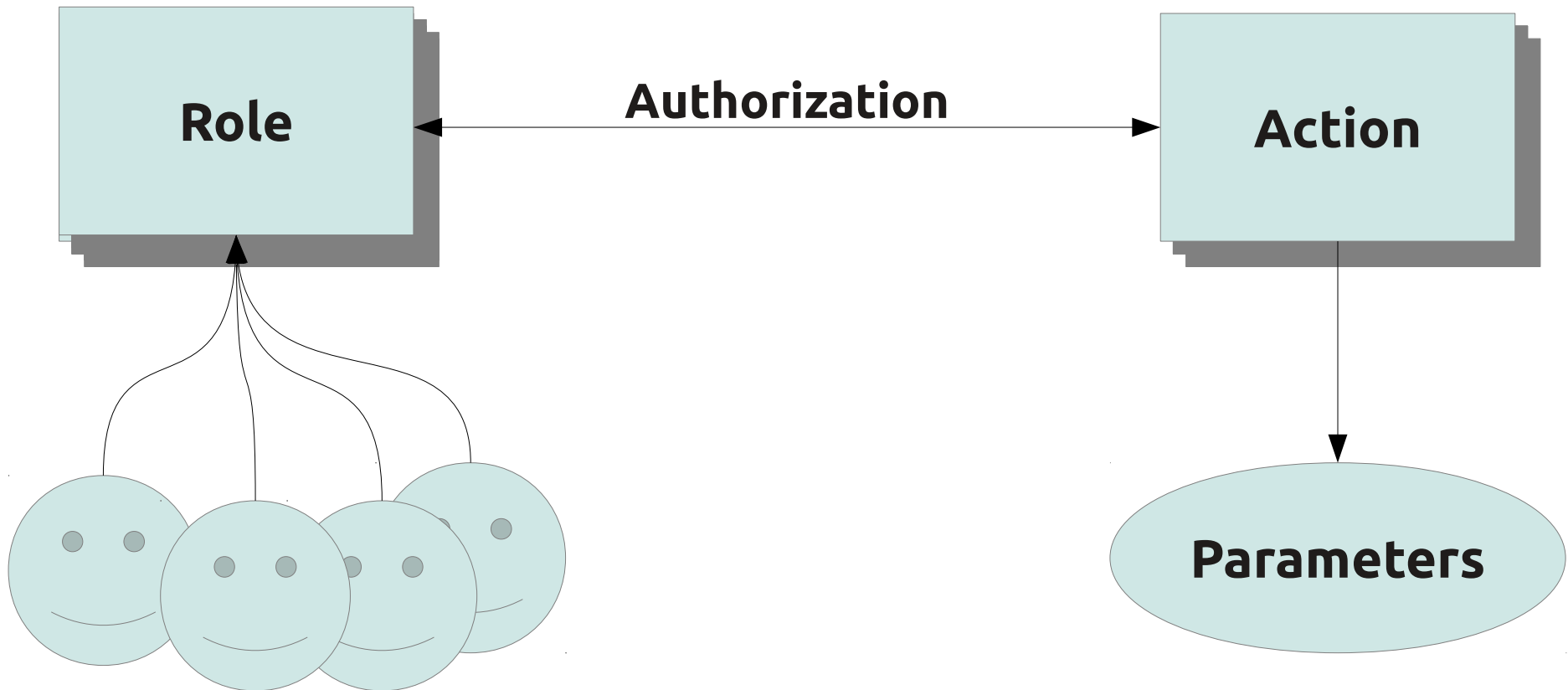
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Workshop 2012*

Invenio Authentication and Authorization

Authentication

- Local accounts
- **LDAP** (thanks to Greg from EPFL :-))
- Shibboleth Single-Sign-On
- Proprietary Single-Sign-On
- More (plugin based. Feel free to contribute customized solutions)
- **Note:** external method can provide user details such as affiliations, address, group memberships (see later with FireRole)

Authorization



Roles

- Set of users
 - Explicitly attached (one by one)
 - Implicitly attached (via FireRole)

Roles: FireRole

- Firewall Like Role Definition Language
- Let you attach users implicitly: e.g.
 - By IP address
 - By group membership
 - By other attributes (imported from an external authentication service, e.g. LDAP)

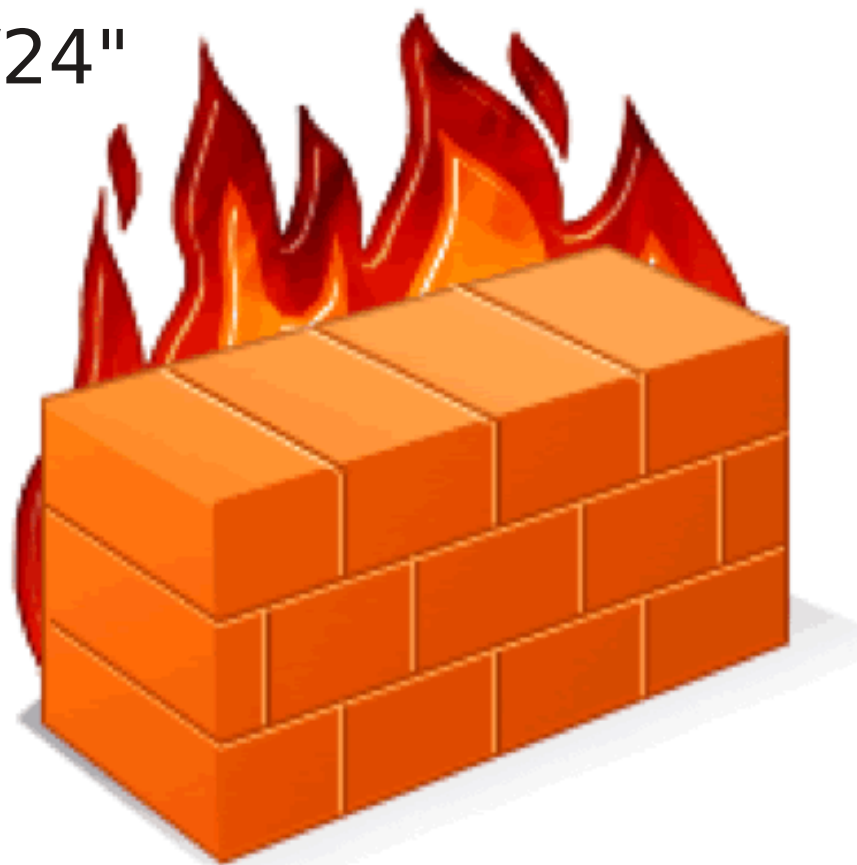
Roles: FireRole

allow not *email* /.*@gmail.com/,/.*@hotmail.com/

deny *group* badguys

allow *remote_ip* "127.0.0.0/24"

deny *until* "2012-06-06"



Actions

- One per admin tool (e.g. *cfgwebsubmit*)
- One per user tool (e.g. *usegroup*)
- Special one:
 - **submit**
 - **viewrestrcoll/viewrestrdoc**

Actions: submit

- **act**: to authorize for a specific action
- **categ**: to authorize for a specific category
- **doctype**: to authorize for a specific document type

*example1: **act**=SBI, **categ**=ARTICLE,
doctype=DEMOART*

*example2: **act**=MIB, **categ**=*, **doctype**=**

Actions: viewrestrcoll



- **collection:** name of the collection to authorize.
- **Note1:** If a collection is not explicitly mentioned in an authorization, then it's public!
- **Note2:** if a record belongs to many collections, a user must be authorized to **all** the restricted collections to which it belongs (a flag is introduced in 1.1 to choose instead for **any**)
- **Note3:** if a user **owns** a record, then she's authorized
- **Note4:** a new record is restricted to the world until webcoll has associated it to collections

Actions: viewrestrdoc



- **status:** arbitrary string that can be attached to a BibDoc (i.e. a document)
 - Such string should be specified in the *status* param of a bibdoc
 - This string can directly specify: an authorized email, group, role or firerole
 - The owner of a record can see the attached bibdocs regardless of the status

Debugging authorizations

Manage Accounts

Overview

Menu

0. [Show all](#) 1. [Access policy](#) 2. [Account overview](#) 3. [Create account](#) 4. [Edit accounts](#)

4. Edit accounts. [\[?\]](#)

Email (part of):

Limit to:

Accounts per page:

[search for accounts](#)

1 matching account(s):

id	email	Status		
1	Samuele.Kaplun@cern.ch	Active	Inactivate / Delete	Edit account Become user

Tuning WebAccess

- CFG_ACCESS_CONTROL_LEVEL_SITE
- CFG_ACCESS_CONTROL_LEVEL_GUESTS
- CFG_ACCESS_CONTROL_LEVEL_ACCOUNTS

see invenio.conf



Tips & Trick

- When upgrading from a previous version of Invenio, always run
 - *webaccessadmin -add -compile*in order to add new actions and default authorizations that have been introduced between two version
- Embargo can be implemented via **FireRole until** syntax

Summary

- Authentication + Authorization
- Role Based Access Control with FireRole
- Embargo