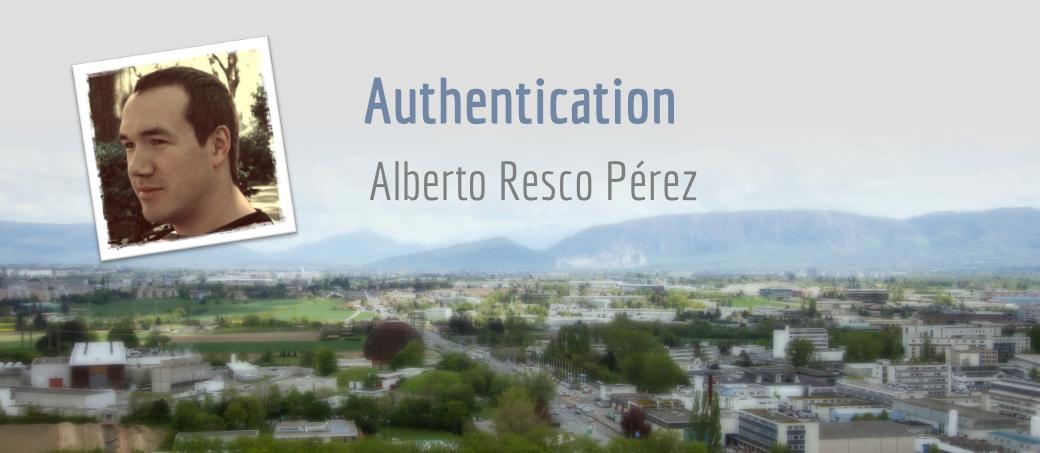
FIRST INDICO WORKSHOP

27-29 MAY 2013 CERN



AUTHENTICATION



What is it: Authentication is the act of confirming the truth of an attribute of a datum or entity.

Users needs to authenticate to access private resources
Support for different types of authentications

AUTHENTICATORS

Currently we support 3 authenticators

- Local
- NICE → CERN specific
- LDAP (developed by Martin Kuba)

LOCAL AUTHENTICATOR

Basic authentication

- Bases in a pair username/password
- Capability to create accounts
- Stored locally

ADMINISTRATION



Server Administration

General settings

Users and Groups

IP Domains

Rooms

Layout

Services

Plugins

Homepage

System

Protection

Main Manage Users Manage Groups

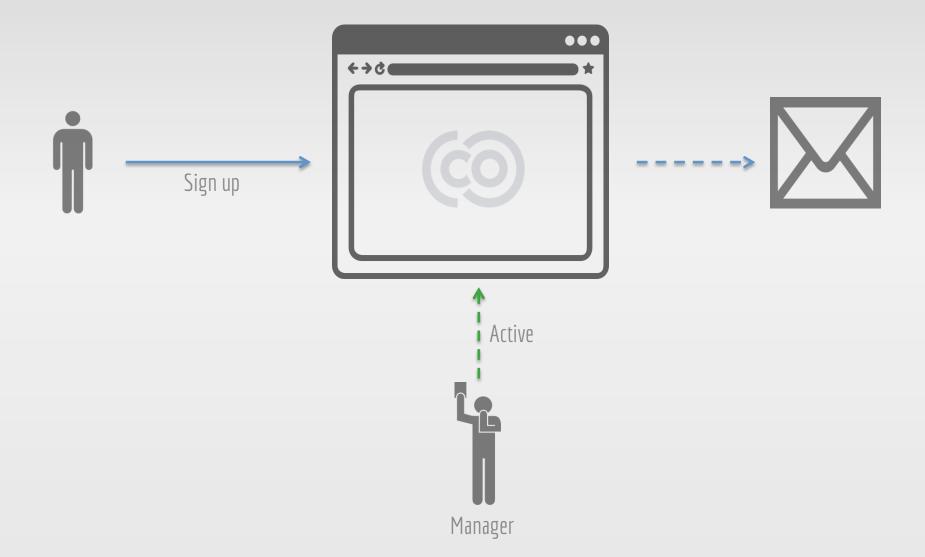
Account Creation

Public Account Creation

Notify Account Creation by Email

Moderate Account Creation

Moderators



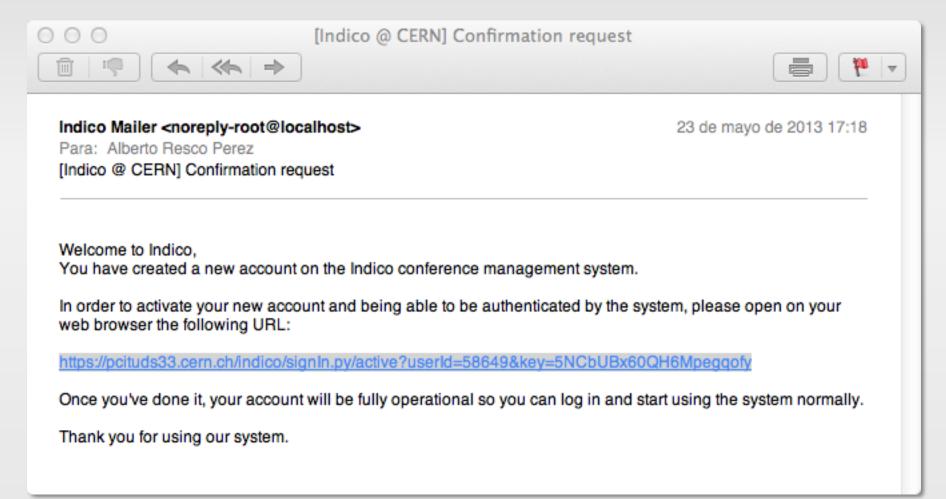
Login

Log in to Indico					
User Name	alberto				
Password					
	Please note you can use your NICE (CERN) account				
	Login				
If you don't have an account, you can create one here					

Create an account

Creating a new Indico user To create a new user please fill in the following form. After the submission of your personal data, an email will be sent to you. You will able to use your account only after you activate it by clicking on the link inside the email. Beware! This is not a conference registration form but an Indico account creation. Personal data (\$) * Family name * First name * Affiliation * Email * Language English | \$ Address Telephone number Fax number My Timezone Europe/Zurich Display Timezone Event Timezone \$ You must enter a valid email address. An email will be sent to you to confirm the registration. Account data Please note that your password will be stored in clear text in our database which will allow us to send it back to you in case you lost it. Try avoid using the same password as accounts you may have in other systems. * Login arescope * Password •••••• * Password (again) Please note that fields marked with * are mandatory. confirm

Email confirmation



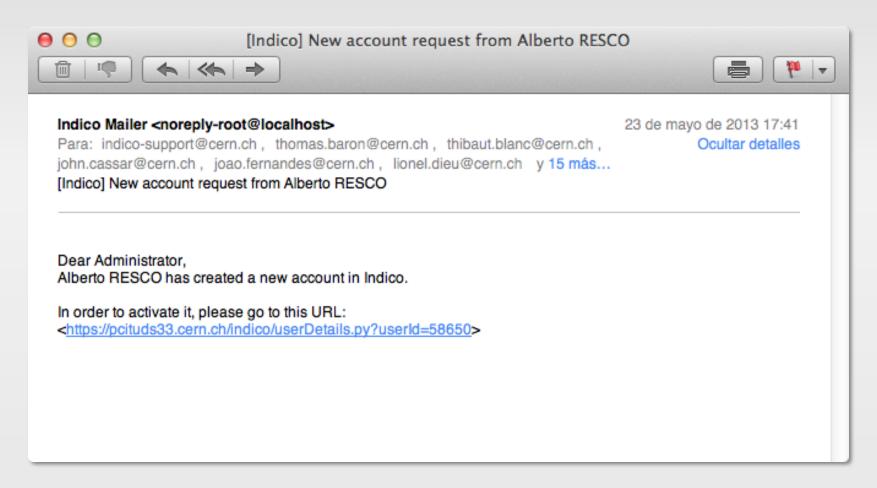
Activation confirmation

Your account is activated. You can now use your login to enter here

If you can't remember your login and password, please use the button below to recieve them by email

send me my login and password by email

Account moderation



Activate account



NICE

CERN Specific

- Web services to lookup for users and groups
- Single Sign On to login
- Sometimes very slow



NICF						
HIOL	CERN Single Sign-On					
Authentic	Sign in with a	a CERN account, a Fe	ederation account or a pub	lic service account		
	Sign in wit	Sign in with your CERN account				
	Reminder: you have agreed to comply with the CERN computing rules					
	Use credentials					
	Username or En	mail address	Password			
Remember Username or Email Address Need password help?						
		k authentication	rece password neep :			
	Sign in using your current Windows/Kerberos credentials [autologon] Use your current authentication token. You need Internet Explorer on CERN Windows or Firefor (Firefox help here).					
Sign in using your Certificate [autologon] Use a EuGridPMA trusted certificate. Don't forget to first map your Certificate to your CERN Account. Use strong two factor authentication [show]						
	-	elect your Federation helect your institute of origin	- ·	Go		



LDAP

LDAP is an application protocol for accessing and maintaining distributed directory information services

- Developed by Martin Kuba
- Benefit from a centralized directory you may have in your institution
- Indico@CERN: We can get rid of the webservices

OAUTH

Introduced in v1.1. Support for Oauth v1.0

- OAuth is an open standard for authorization.
- OAuth provides a method for clients to access server resources on behalf of a resource owner (such as a different client or an enduser).
- It also provides a process for end-users to authorize third-party access to their server resources without sharing their credentials (

OAUTH AUTHENTICATION FLOW VIDE

Consumer Service Provider Obtain Unauthorized Request Token Request Grant Request Token Request Token Direct User to Service Provider **Jser Authorizes** Request Token Obtain User Authorization Direct User to Consumer **Exchange Request Token** Request for Access Token Access Token Grant Access Token Access Protected Resources

Consumer Requests Request Token

Request includes

oauth_consumer_key oauth_signature_method oauth_signature oauth_timestamp oauth_nonce oauth_version (optional) oauth_callback

Service Provider **Grants Request Token**

Response includes

oauth_token oauth token secret oauth_callback_confirmed

Consumer Directs User to Service Provider

Request includes

oauth_token (optional)

Service Provider Directs **User to Consumer**

Request includes

oauth_token oauth_verifier

Consumer Requests Access Token

Request includes

oauth_consumer_key oauth_token oauth_signature_method oauth_signature oauth_timestamp oauth_nonce oauth_version (optional) oauth_verifier

Service Provider **Grants Access Token**

Response includes

oauth_token oauth_token_secret

Consumer Accesses **Protected Resources**

Request includes

oauth_consumer_key oauth_token oauth_signature_method oauth_signature oauth_timestamp oauth_nonce oauth_version (optional)

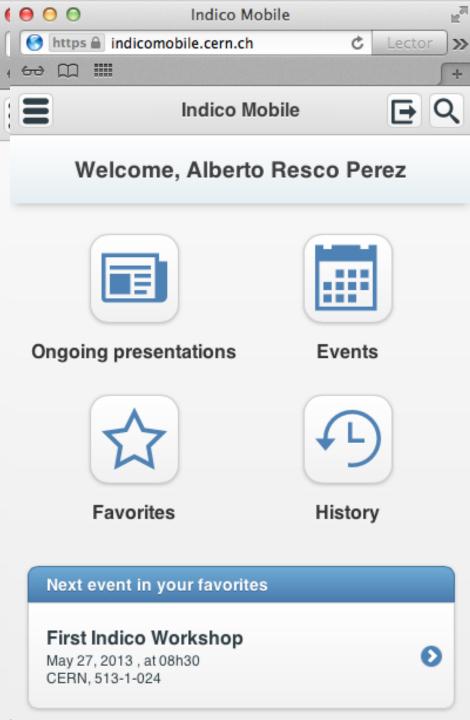
INDICO MOBILE W

Authentication Workflow



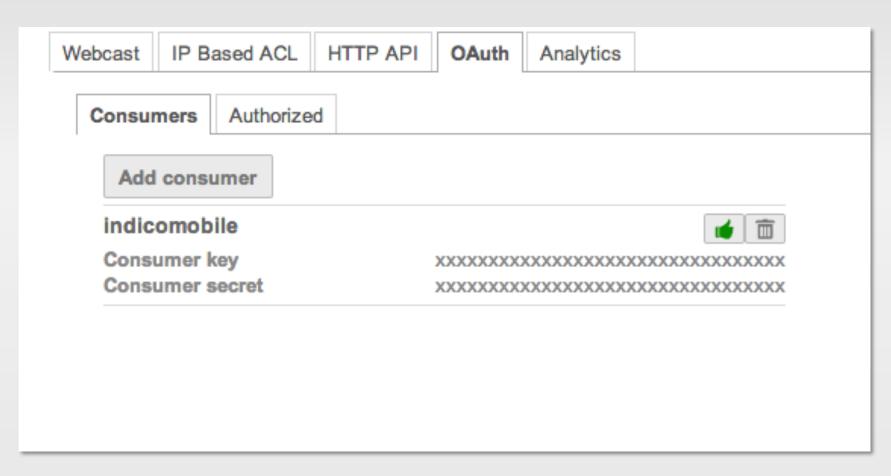


indicomobile is requesting access to access will be read-only and no modifical Do you grant access to indicomobile?



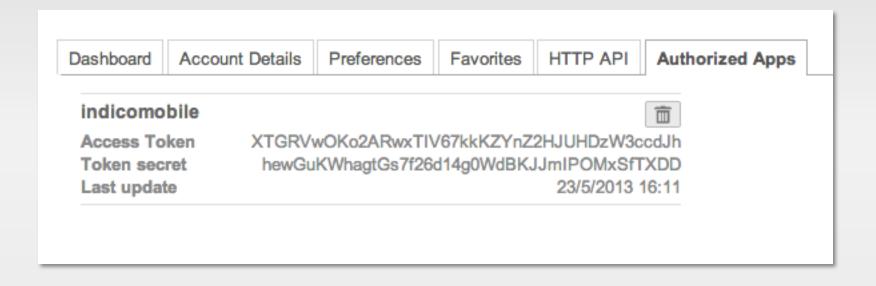
OAUTH: ADMINISTRATION

List of consumers

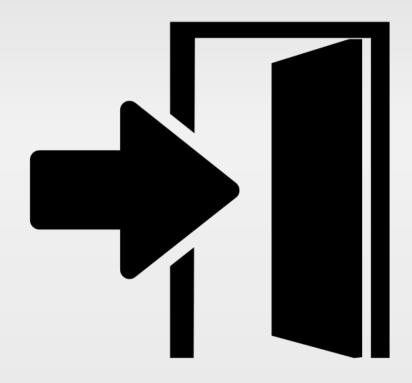


OAUTH: USER APPLICATIONS

List of applications authorized



NEW AUTH SYSTEM



NEW SYSTEM

To be released in v1.2*

- Refactor of the code
- Get rid of NICE Authenticator
 - Easy to add new authenticators
 - Faster, cache
- SSO capabilities: it would only be a matter of configuration

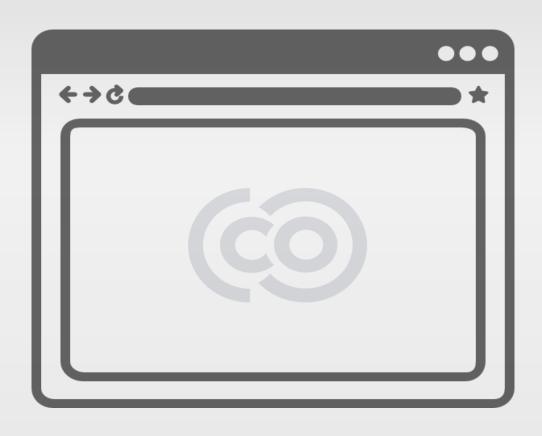
BASIC CONFIG

```
# etc/indico.conf
AuthenticatorList = [('Local', {})]
```

CONFIGURE LDAP

ENABLE SSO

DEMO LOGIN LDAP



QUESTIONS?



ALBERTO RESCO

http://github.com/arescope

2 @arescope

arescope@cern.ch