

A large, decorative blue wave graphic on the left side of the slide, composed of multiple overlapping, flowing lines in various shades of blue, creating a sense of motion and depth.

# Intranet Portal

PLONE-LDAP-SingleSignOn-Webservices

K.K.Dhanesh  
dhaneshkk@cdac.in

# Agenda

- About CDAC
- International Open Source Network
- Plone portal deployments
- Intranet Portal features
- Plone integration with OpenLDAP
- Plone SingleSign On with OpenAM
- Interfacing with webservice
- Schedule jobs in Plone
- Questions

# C-DAC an Overview

- C-DAC : seeded at Pune Centre in 1987
  - High Performance Computing (HPC) - the focal area then
  - In 1998 1MF supercomputer and in 2013, Feb its 524TF Param Yuva II
- Later started
  - Multilingual Computing (1988)
  - Advanced Computing Training School (ACTS) (1993)
- Subsequently added activities
  - Healthcare
  - e-Governance
- Multimedia
  - Geo-Matics
- Merger of 3 premier societies of DIT with C-DAC in December, 2002
  - ( ERDCI- 1982 - 88, NCST- 1985, CEDTI-1990 )  
( Electronics, Software, Training & skills development)

# C-DAC an Overview



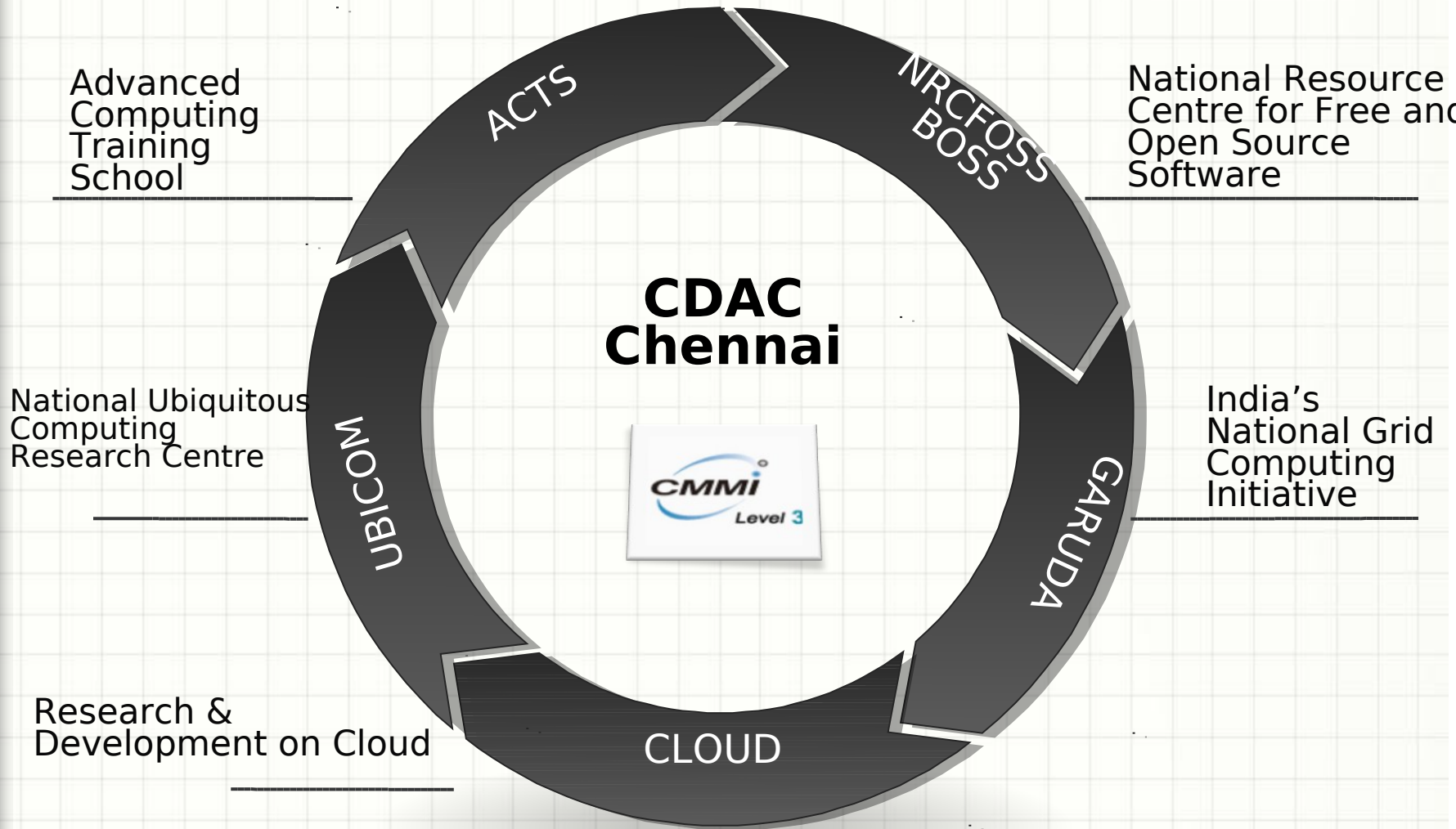
- **10 Locations**
- **10 Labs**
- **4000 members**

# Thematic focus areas of C-DAC

- High Performance Computing & Grid Computing
- Multilingual Computing and Heritage Computing
- Health Informatics
- Software Technologies, including FOSS
- Professional Electronics including VLSI & Embedded Systems
- Cyber Security & Cyber Forensics



# C-DAC Chennai



# NRCFOSS

- Programme of the Department of Information Technology , GOI Setup in April 2005
- Areas of focus - SME's , Education, Accessibility, Indian Language support, Localized applications
- Research on SaaS Framework, CoE in MID, FOSS issues etc
- BOSS Linux to be used as the base for all development to ensure the reach to end users.

# International Open Source Network

## <http://www.iosn.net>

- UNDP-IDRC Canada's APDIP 2003 project
- IOSN is an umbrella organization to promote FOSS in Asia Pacific region.
- CDAC bagged the contract
- Three Nodes of excellence
- South Asian Regional Node, ASEAN +3 Countries, Pacific Island Countries
- Plone portals, FreeBSD servers, Mail Servers and Mailman



# International Open Source Network

## International Open Source Network

### www.iosn.net



### International Open Source Network

*Software Freedom For All*

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- navigation

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## UNDP-APDIP International Open Source Network

Welcome to the International Open Source Network an initiative of the United Nations Development Programme's (UNDP) Asia Pacific Development Information Programme (APDIP) and supported by the International Development Research Centre (IDRC) of Canada.

The International Open Source Network (IOSN) is a Center of Excellence for FOSS in the [Asia-Pacific Region](#). It shapes its activities around Free/Open Source Software (FOSS) technologies and applications. Via a small secretariat, the IOSN is tasked specifically to facilitate and network FOSS advocates and human resources in the region. The vision is that developing countries in the [Asia-Pacific Region](#) can achieve rapid and sustained economic and social development by using affordable yet effective FOSS ICT solutions to bridge the digital divide.

» [About IOSN](#)

### Tsunami Relief

[Link to donor agencies](#)

« January 2005 »

| Su | Mo | Tu | We | Th | Fr | Sa |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

- news

  -  [Finding Cures For Tropical Diseases: Is Open Source An Answer?](#)  
2005-01-18
  -  [French Police Migrating to OpenOffice.org](#)  
2005-01-18

# PLONE Portals in CDAC

- Launched a few PLONE portals
- NRCFOSS, INDG, IOSN, INTRANET
  - <http://www.nrcfoss.org.in>
  - <http://www.indg.in>
  - <http://www.iosn.net>
  - <http://www.intranet.cdac.in>

# NRCFOSS

<http://nrcfoss.org.in>



The screenshot shows a Mozilla Firefox browser window displaying the NRCFOSS website. The browser's address bar shows the URL <http://www.nrcfoss.org.in/>. The website's header features the NRCFOSS logo, navigation links (Home, Downloads, Services, FOSS HRD, Repository, NRCFOSS wiki, Open Source Compliance, Resources), and a search bar. The main content area is titled "NRCFOSS" and includes a detailed description of the organization, its mission, and a section titled "Why NRCFOSS?". On the left, there is a section for "IMPLEMENTING AGENCIES" listing AU-KBC, CDAC, IIT-BOMBAY, and IIT-MADRAS. On the right, there is a "LATEST NEWS" section with two news items: "Receives The 2012 Millennium Technology Prize" and "Applications Invited For Summer Training At FOSS LAB, DIT, New Delhi". The browser's taskbar at the bottom shows several open applications, including a terminal, PDF viewer, and Google search.

# INDG

- India Development Gateway



The screenshot shows a Mozilla Firefox browser window displaying the India Development Gateway website. The browser's address bar shows the URL `http://indg.in/`. The website's main heading is in Hindi: **भारत विकास प्रवेशद्वार** (Bharat Vikas Prवेशद्वार) and in English: **India Development Gateway**. Below the heading, there is a central logo for 'INDG' (India Development Gateway) featuring a sun, a person, and a computer. Surrounding the logo are language options in various Indian languages: English, हिन्दी (Hindi), मराठी (Marathi), बाङ्ला (Bangla), ಕನ್ನಡ (Kannada), ગુજરાતિ (Gujarati), असमिया (Assamese), മലയാളം (Malayalam), తెలుగు (Telugu), and தமிழ் (Tamil). At the bottom of the page, there are links for [About Us](#), [Link To Us](#), [Disclaimer](#), and [Contact Us](#), along with the copyright notice: ©2006-2013 C-DAC, All rights reserved.



# INDG

- Multi Lingual Portal

Applications Places System 3:49 PM

India Development Gateway — India Development Gateway - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.indg.in/india/home-page/view?set\_language=en

Getting Started WELCOME TO THE ... Installing Plone for ...

India Developme... IntranetSite IntranetSite Loading... Loading...

Log in | Downloads

Agriculture Health Primary Education Social Welfare Rural Energy e-Governance

DeitY

Home

English

India Development Gateway

**Primary Education**

- Right to Education Act National, State level
- Schemes & Awards for Students
- Web Based Tutorials

**e-Governance**

- VLE Registration
- Employment News
- Online Citizen Services

**Health**

- MOTHER
- Immunization
- Lifestyle Disorders

**Agriculture**

- Goat farming
- Bee keeping
- Rural godowns scheme

**Rural Energy**

- Solar lanterns
- Solar irrigation pumps
- Summer tips

**Social Welfare**

- Social Awareness
- Vulnerable Groups
- Financial Literacy Course

Latest News

Krishi Karman Awards for Excellence in Foodgrain Production

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Recaller

VLE Corner

Solar Initiative

Products & Services

Be an InDG Partner

INDG Outreach

Contribute Content

Work with Us

Add your organization

User Feedback

Give your Feedback

State Resource Group

india.gov.in

The national portal of India

http://indg.in/india/ngo-database/search-ngo-organisation

[Termi... [Xpdf... [Intra... [WISC... India ... NRCF...



# INDG

<http://www.indg.in>



Applications Places System

भारत विकास प्रवेशद्वार - एक परिचय — India Development Gateway - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.indg.in/india/home-page-hi/view?set\_language=hi

Getting Started WELCOME TO THE ... Installing Plone for ...

भारत विकास प्रवेशद्वार - एक ... IntranetSite IntranetSite

लॉग इन डाउनलोड

DeiTY

सी डैक CDAC

होम (घर)

**समाचार**

आम बजट 2013-14

रेल बजट 2013-2014

प्रधान-मंत्री ग्रामीण विकास अध्येता योजना

**समाचार पत्रिका प्रकाशित करें**

मनरेवा 2.0 का अगल माह

शुरूआत होगी - जयराम रमेश

**आपका ई-मेल पता**

समाचार पत्रिका प्रकाशित करें।

हमारे संग्रहालय में जायें

**यदि पेज को पढ़ने में असुविधा हो**

Waiting for www.indg.in...

[Termi... [Xpdf... [Intra... FOSS ... भारत वि... [NRCF...

भारत विकास प्रवेशद्वार - एक परिचय

कृषि स्वास्थ्य प्राथमिक शिक्षा समाज कल्याण ग्रामीण ऊर्जा ई-शासन

उत्पाद व सेवाएँ

**आईएनडीजी का सहयोगी बनें**

आईएनडीजी आउटरीच

सूचना प्रदान करें

हमारे साथ कार्य करें

अपने संगठन को जोड़ें

प्रयोक्ता प्रतिक्रिया

अपनी प्रतिक्रिया दें

भारत का राष्ट्रीय पोर्टल

**प्राथमिक शिक्षा**

- शिक्षक कोना
- मल्टीमीडिया सामग्री
- बालिका शिक्षा

**ई-शासन**

- वीएलई पंजीकरण
- रोजगार समाचार
- ऑनलाइन नागरिक सेवाएँ

**कृषि**

- फसल उत्पाद
- बटेर पालन
- बीमा

**ग्रामीण ऊर्जा**

- सौर्य ऊर्जा
- योजना व सब्सिडी
- ऊर्जा संरक्षण

**स्वास्थ्य**

- ग्रभावस्था की समस्याएँ
- रक्तदान
- बीमारी

**समाज कल्याण**

- महिला सशक्तीकरण
- वृद्ध नागरिक
- वकिलाँग व्यक्ती

# IOSN



 **International Open Source Network**  
*Software Freedom For All*

site map accessibility

search

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## International Open Source Network

by [Khairil Yusof](#) — last modified 2008-10-06 10:53 AM 2006 UNDP-APDIP

English

The International Open Source Network (IOSN) is a Center of Excellence for FOSS in the [Asia-Pacific Region](#). It shapes its activities around Free/Open Source Software (FOSS) technologies and applications. Via three centres of excellence - IOSN ASEAN+3, IOSN PIC (Pacific Island Countries), and IOSN South Asia, based in Manila, Suva and Chennai respectively, the IOSN is tasked specifically to facilitate and network FOSS advocates and human resources in the region. The vision is that developing countries in the [Asia-Pacific Region](#) can achieve rapid and sustained economic and social development by using affordable yet effective FOSS ICT solutions to bridge the digital divide.

### ASEAN+3

IOSN Regional Node in Manila, serving the countries of ASEAN, China, Japan, Korea and neighbouring countries.

[ASEAN+3 resources](#)



### South Asia

IOSN Regional Node in Chennai, serving the countries of Bangladesh, India, Sri Lanka and neighbouring countries.

[South Asia resources](#)



### Pacific Island Countries

IOSN Regional Node in Suva, serving the countries of Fiji, Samoa, Solomon Islands, Tonga, Samoa and neighbouring countries.

[Pacific Island Countries resources](#)



### iosn news

[IOSN and Practical Action conduct discussion on Poverty Reduction](#)  
2008-04-02

[Invitation to FOSS companies](#)  
2007-11-21

[Request for comments: Draft IOSN Primers on FOSS for SMEs, Health, and Security](#)  
2007-11-21

[More news...](#)

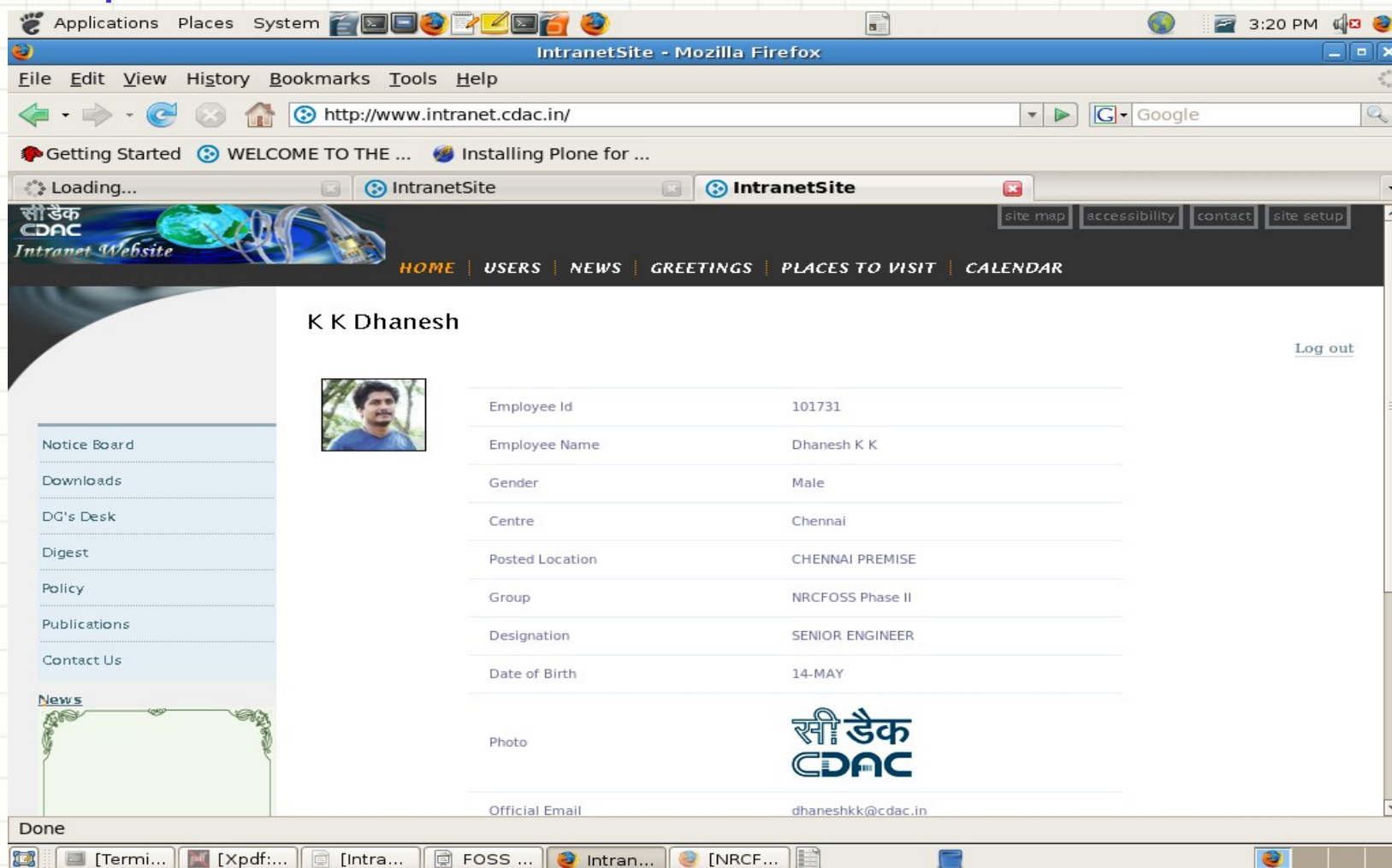
### news

[Advantages of Open Source Learning Management Software](#)  
2010-11-30

[Latest Ubuntu OS delves into](#)

# CDAC INTRANET

<http://intranet.cdac.in>



Applications Places System

IntranetSite - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.intranet.cdac.in/

Getting Started WELCOME TO THE ... Installing Plone for ...

Loading... IntranetSite IntranetSite


CDAC Intranet Website

site map accessibility contact site setup

HOME USERS NEWS GREETINGS PLACES TO VISIT CALENDAR

K K Dhanesh

Log out

|                 |   |
|-----------------|---|
| Employee Id     | 101731  |
| Employee Name   | Dhanesh K K   |
| Gender          | Male  |
| Centre          | Chennai   |
| Posted Location | CHENNAI PREMISE   |
| Group           | NRCFOSS Phase II  |
| Designation     | SENIOR ENGINEER   |
| Date of Birth   | 14-MAY  |
| Photo           |  |
| Official Email  | dhaneshkk@cdac.in   |

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Done

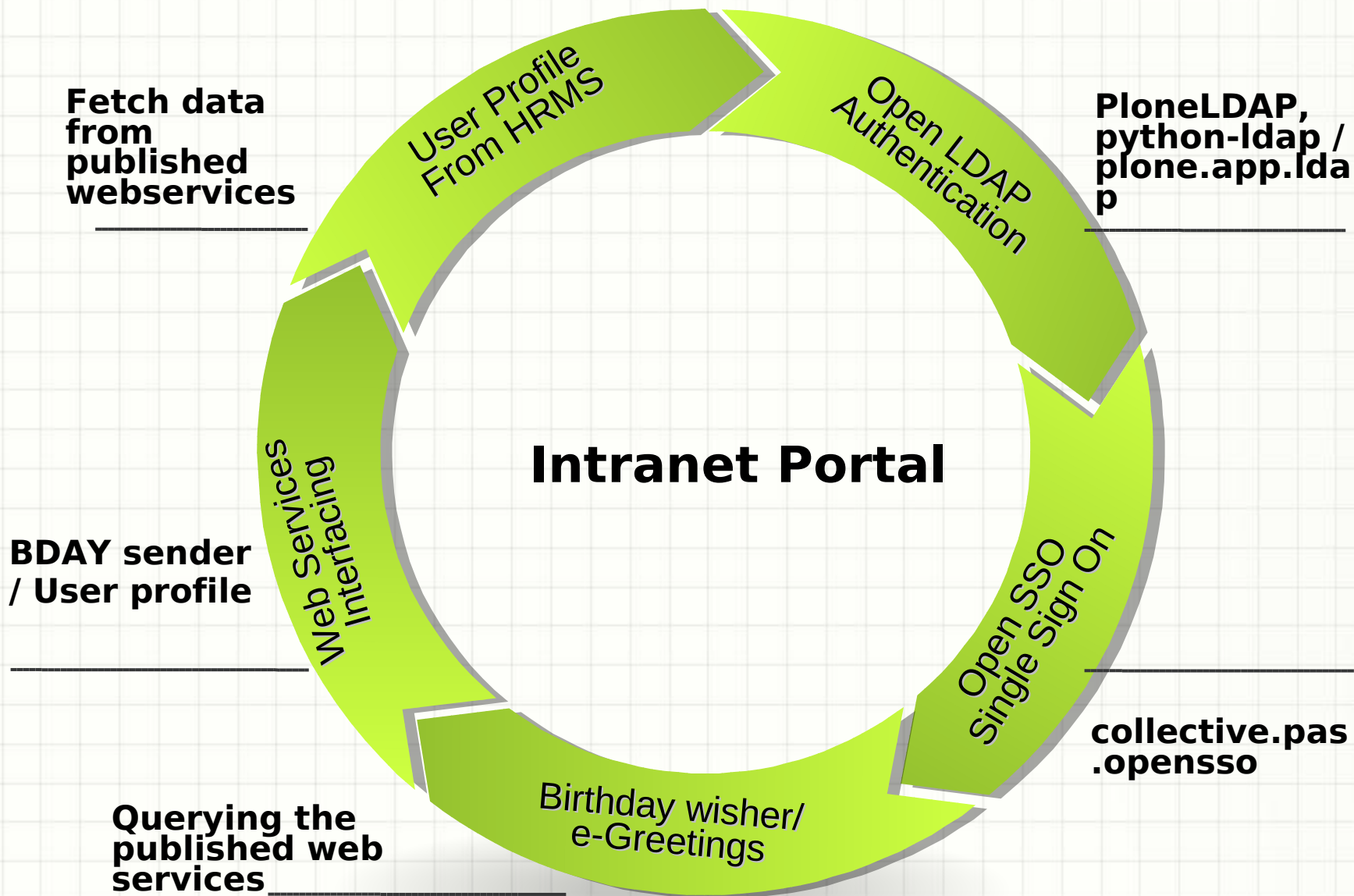
[Termi... [Xpdf... [Intra... FOSS ... Intran... [NRCF...

# CDAC Intranet Portal

- Features for employee interaction and knowledge sharing.
- Open LDAP Integration
- Single Sign on
- Web services interfacing
- Birthday wisher, e-Greetings
- Interactive platform for Sharing ideas, journals, publications, Discussion forums, archives etc.



# Intranet Portal





# Plone and OpenLDAP

- Corporate Intranet portal for employees
- Our corporate uses OpenLDAP Server and we have around 4000 employees in multiple groups and hierarchy.
- Task: OpenLDAP Authentication with Plone
- PloneLDAP with Plone-3.x
- PloneLDAP requires Python-ldap
- Integrated with OpenLDAP for authentication

# OpenLDAP integration Steps

- Install Python-ldap-2.4.7 for PloneLDAP-1.2
- OpenLDAP Libraries needed in the intranet server.
- Learning LDAP Search commands may help you in trouble shooting.
- Python-ldap, PloneLDAP, simplon.plone.ldap
- <http://www.iosn.net/live/PloneLDAPHowTos>
- plone.app.ldap is the latest interface to manage LDAP connections for Plone-3.3 onwards.

Reference: Professional Plone Development by  
Martin Aspeli

# plone.app.Idap

- Download the plone.app.Idap package
- Use Zope instance python
- `~/ZopeInstance/Python-2.4/bin/python setup.py build and install`
- Note: If it doesn't appear in add/remove product section of Plone's sitesetup
- Add “plone.app.Idap-configure.zcml” file in `PLONE-4.x/zinstance/parts/instance/etc/package-includes`  
`<include package="plone.app.Idap" />` then restart plone it will appear in sitesetup

# Add Plone LDAP Plugin

- `simplon.plone.ldap`
- Managed the configuration in ZMI
- Add Plone LDAP plugin from ZMI in site's `acl_users` Folder
- Submit the configuration information there.

# Add Plone LDAP Plugin ZMI

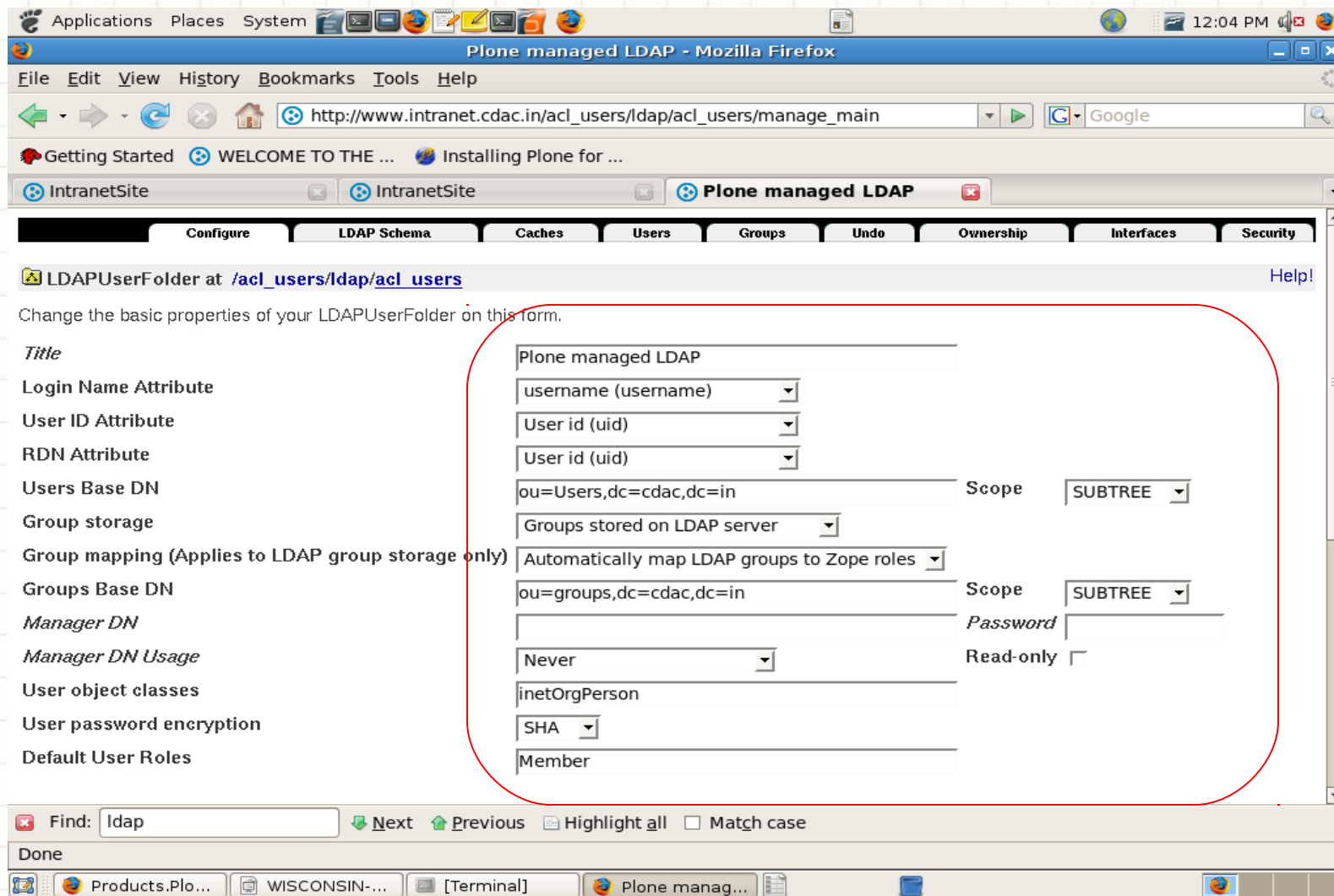
The screenshot shows a Mozilla Firefox browser window with the URL `http://www.intranet.cdac.in/acl_users/manage_main`. The browser's address bar and search bar are visible. The page content shows a "Pluggable Auth Service at /acl\_users" section with a "Help!" link. A dropdown menu is open, showing "Plone LDAP plugin" selected, and an "Add" button is next to it. Below this, a table lists various authentication services with columns for "Type Name", "Size", and "Last Modified".

| Type | Name                                     | Size | Last Modified    |
|------|--|------|------------------|
| ☐    | Testopenso3                              |      | 2013-02-08 12:36 |
| ☐    | auto_group (Automatic Group Provider)    |      | 2012-06-20 16:52 |
| ☐    | borg_localroles                          |      | 2012-06-20 16:52 |
| ☐    | chooser                                  |      | 2012-06-20 16:52 |
| ☐    | credentials_basic_auth (HTTP Basic Auth) |      | 2012-06-20 16:52 |
| ☐    | credentials_cookie_auth                  |      | 2012-06-20 16:52 |
| ☐    | ldap (Plone managed LDAP)                |      | 2013-01-30 10:02 |
| ☐    | local_roles                              |      | 2012-06-20 16:52 |
| ☐    | mutable_properties                       |      | 2012-06-20 16:52 |
| ☐    | plugins                                  |      | 2012-06-20 16:52 |
| ☐    | portal_role_manager                      |      | 2012-06-20 16:52 |
| ☐    | session (None)                           |      | 2013-01-30 17:41 |
| ☐    | sniffer                                  |      | 2012-06-20 16:52 |
| ☐    | source_groups                            |      | 2012-06-20 16:52 |
| ☐    | source_users                             |      | 2012-06-20 16:52 |
| ☐    | user_factory (Plone User Factory)        |      | 2012-06-20 16:52 |

At the bottom of the browser window, the taskbar shows several open applications: "ploneldap - G...", "[WISCONSIN-...", "[Terminal]", and "acl\_users - M...".



# Configuring Plone LDAP Plugin



Applications Places System 12:04 PM

Plone managed LDAP - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.intranet.cdac.in/acl\_users/ldap/acl\_users/manage\_main

Getting Started WELCOME TO THE ... Installing Plone for ...

IntranetSite IntranetSite **Plone managed LDAP**

Configure LDAP Schema Caches Users Groups Undo Ownership Interfaces Security

LDAPUserFolder at /acl\_users/ldap/acl\_users [Help!](#)

Change the basic properties of your LDAPUserFolder on this form.

*Title*

Plone managed LDAP

*Login Name Attribute*

username (username)

*User ID Attribute*

User id (uid)

*RDN Attribute*

User id (uid)

*Users Base DN*

ou=Users,dc=cdac,dc=in

*Scope*

SUBTREE

*Group storage*

Groups stored on LDAP server

*Group mapping (Applies to LDAP group storage only)*

Automatically map LDAP groups to Zope roles

*Groups Base DN*

ou=groups,dc=cdac,dc=in

*Scope*

SUBTREE

*Manager DN*

*Manager DN Usage*

Never

*User object classes*

inetOrgPerson

*User password encryption*

SHA

*Default User Roles*

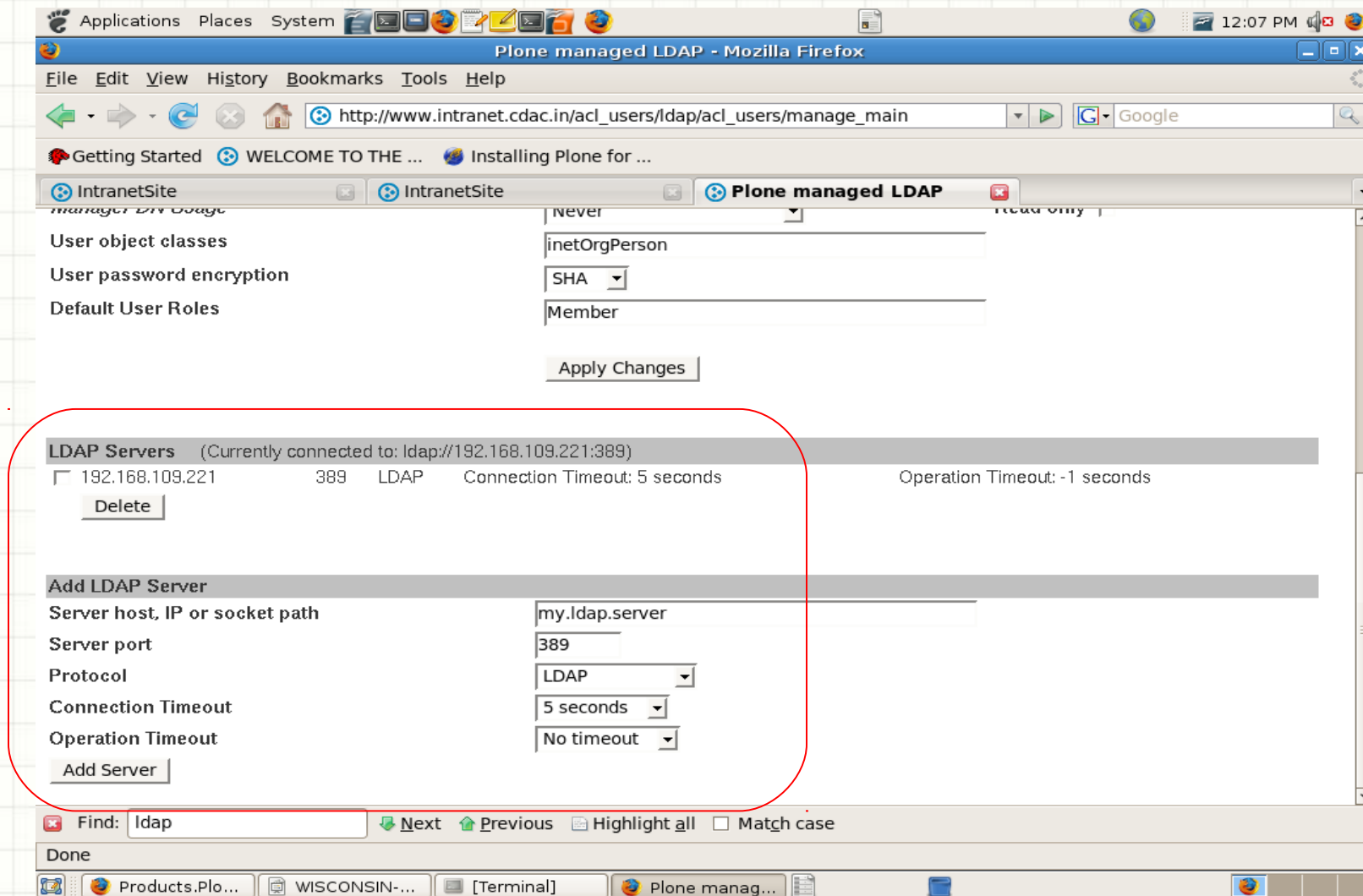
Member

Find: ldap [Next](#) [Previous](#) [Highlight all](#)  Match case

Done

Products.Plo... WISCONSIN-... [Terminal] Plone manag...

# Configuring Plone LDAP Plugin



The screenshot shows the 'Plone managed LDAP' configuration page in a Mozilla Firefox browser. The address bar shows the URL: `http://www.intranet.cdac.in/acl_users/ldap/acl_users/manage_main`. The page contains several configuration fields:

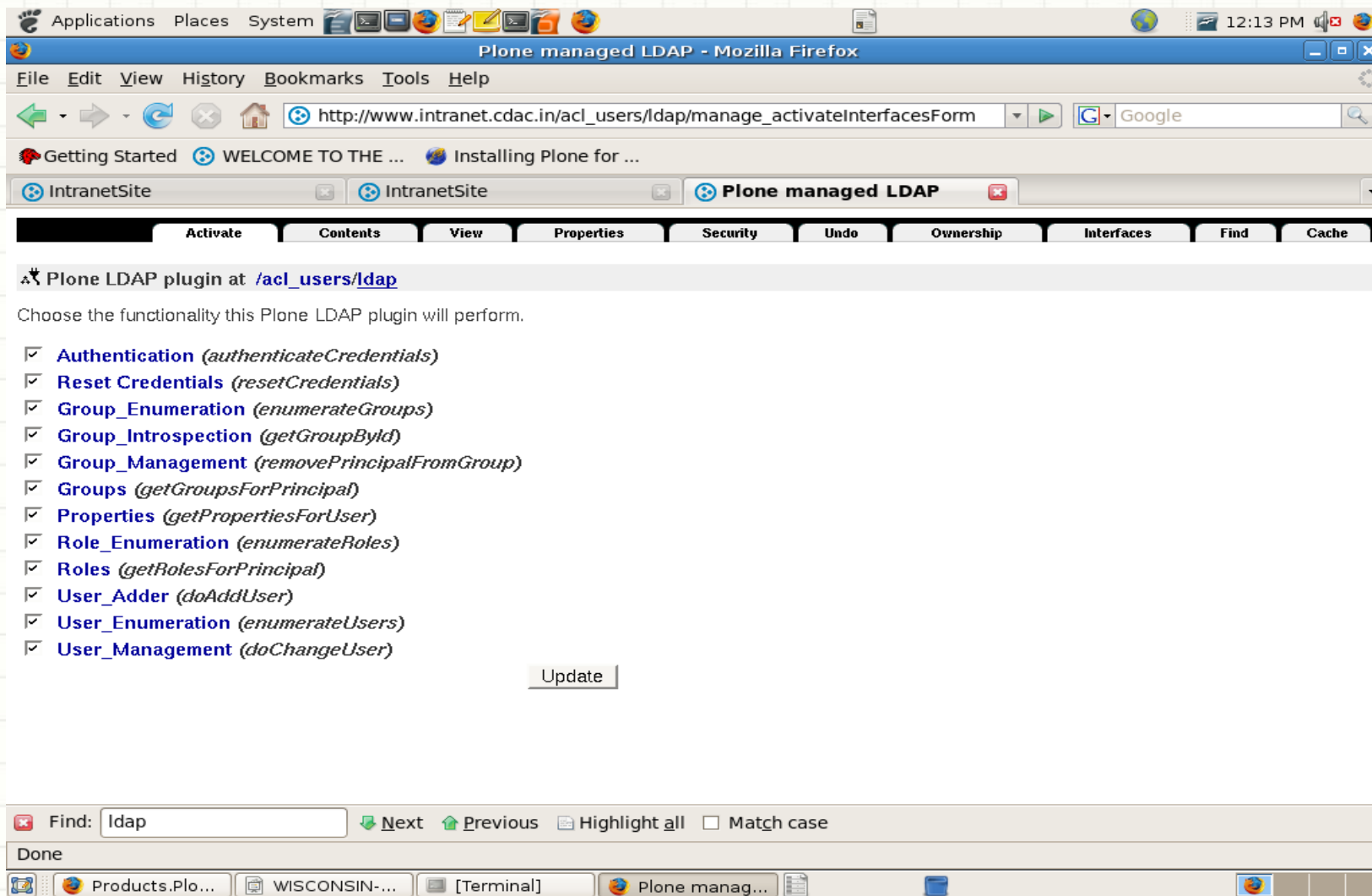
- User object classes:** `inetOrgPerson`
- User password encryption:** `SHA`
- Default User Roles:** `Member`

Below these fields is an **Apply Changes** button. A red circle highlights the **LDAP Servers** section, which includes:

- LDAP Servers** (Currently connected to: `ldap://192.168.109.221:389`)
- Table with columns: `192.168.109.221`, `389`, `LDAP`, `Connection Timeout: 5 seconds`, `Operation Timeout: -1 seconds`. A **Delete** button is present below the table.
- Add LDAP Server** section with the following fields:
  - Server host, IP or socket path:** `my.ldap.server`
  - Server port:** `389`
  - Protocol:** `LDAP`
  - Connection Timeout:** `5 seconds`
  - Operation Timeout:** `No timeout`

At the bottom of the highlighted area is an **Add Server** button. The browser's search bar at the bottom shows 'Find: ldap' and 'Done'.

# Activate Plone LDAP Plugin



The screenshot shows a Mozilla Firefox browser window titled "Plone managed LDAP - Mozilla Firefox". The address bar contains the URL `http://www.intranet.cdac.in/acl_users/ldap/manage_activateInterfacesForm`. The browser tabs include "IntranetSite" and "Plone managed LDAP".

The main content area displays the configuration page for the Plone LDAP plugin. It features a navigation bar with tabs: "Activate", "Contents", "View", "Properties", "Security", "Undo", "Ownership", "Interfaces", "Find", and "Cache". The "Activate" tab is selected.

The page title is "Plone LDAP plugin at /acl\_users/ldap". Below the title, it says "Choose the functionality this Plone LDAP plugin will perform." followed by a list of checked options:

- Authentication** (*authenticateCredentials*)
- Reset Credentials** (*resetCredentials*)
- Group\_Enumeration** (*enumerateGroups*)
- Group\_Introspection** (*getGroupById*)
- Group\_Management** (*removePrincipalFromGroup*)
- Groups** (*getGroupsForPrincipal*)
- Properties** (*getPropertiesForUser*)
- Role\_Enumeration** (*enumerateRoles*)
- Roles** (*getRolesForPrincipal*)
- User\_Adder** (*doAddUser*)
- User\_Enumeration** (*enumerateUsers*)
- User\_Management** (*doChangeUser*)

At the bottom of the configuration area, there is an "Update" button.

The browser's search bar at the bottom shows "Find: ldap" with options for "Next", "Previous", "Highlight all", and "Match case". The taskbar at the very bottom shows several open applications, including "Products.Plo...", "WISCONSIN...", "[Terminal]", and "Plone manag...".

# LDAPUserFolder Instance

- Another acl\_user folder in your PloneLDAP plugin to manage the low level LDAP communications
- You can reconfigure your plugin once you added

The screenshot shows the configuration page for an LDAPUserFolder instance in Plone. The browser window is titled "Plone managed LDAP - Mozilla Firefox" and the address bar shows "http://www.intranet.cdac.in/acl\_users/ldap/acl\_users/manage\_main". The page has a navigation bar with tabs: Configure, LDAP Schema, Caches, Users, Groups, Undo, Ownership, Interfaces, and Security. The main content area is titled "LDAPUserFolder at /acl\_users/ldap/acl\_users" and includes a "Help!" link. Below the title, there is a text box stating: "Change the basic properties of your LDAPUserFolder on this form." The configuration form contains the following fields:

|  |   |           |                          |
|--|---|-----------|--------------------------|
| Title  | Plone managed LDAP                          |           |                          |
| Login Name Attribute                               | username (username)                         |           |                          |
| User ID Attribute                                  | User id (uid)                               |           |                          |
| RDN Attribute                                      | User id (uid)                               |           |                          |
| Users Base DN                                      | ou=Users,dc=cdac,dc=in                      | Scope     | SUBTREE                  |
| Group storage                                      | Groups stored on LDAP server                |           |                          |
| Group mapping (Applies to LDAP group storage only) | Automatically map LDAP groups to Zope roles |           |                          |
| Groups Base DN                                     | ou=groups,dc=cdac,dc=in                     | Scope     | SUBTREE                  |
| Manager DN   |   | Password  |                          |
| Manager DN Usage                                   | Never                                       | Read-only | <input type="checkbox"/> |
| User object classes                                | inetOrgPerson                               |           |                          |
| User password encryption                           | SHA   |           |                          |
| Default User Roles                                 | Member                                      |           |                          |

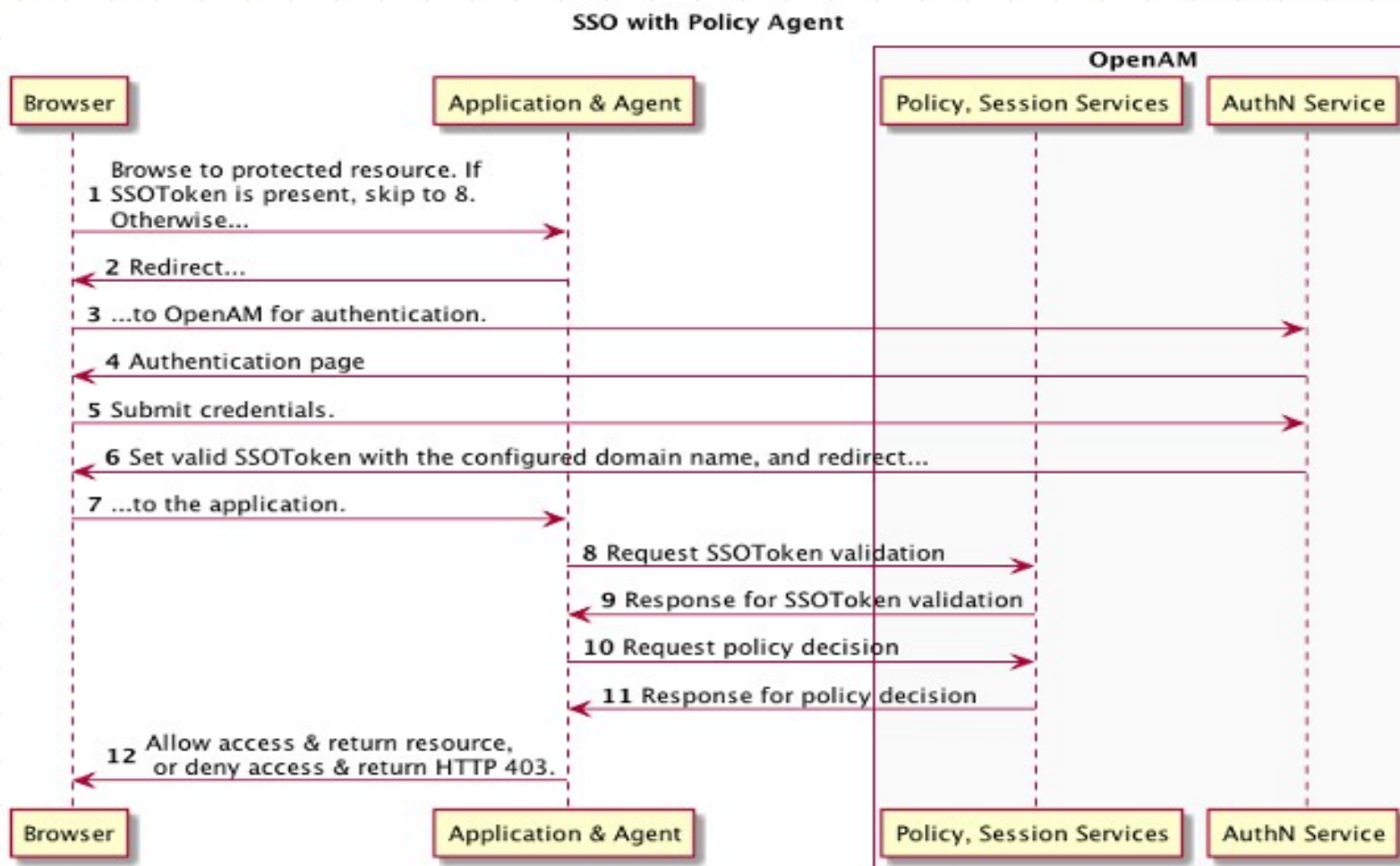
At the bottom of the page, there is a search bar with "Find: ldap" and buttons for "Next", "Previous", "Highlight all", and "Match case". The status bar shows "Done". The taskbar at the bottom includes icons for [Products.Plo..., WISCONSIN-..., [Terminal], and Plone manag...

# Single Sign On for Plone

- There are multiple approaches for SSO
- We use OpenSSO(OpenAM) Server
- SSO agent in our plone site is collective.pas.opensso
- OpenSSO Server is in another server.
- CDAC uses OpenLDAP for authentication /authorization.
- The Server used for Plone portal is FreeBSD-8.x
- PLONE-3.x, Apache-2.x used as front-end for Plone.



# Cookies and the SSO Session Process



# Single Sign On using collective.pas.opensso



Support for implementation : Mustapha Benali

# Install collective.pas.opensso

- Download collective.pas.opensso and put in src folder of Plone instance
- Edit buildout.cfg and rerun buildout

```
eggs =  
    collective.pas.opensso // no pypi  
package ?  
zcml =  
    collective.pas.opensso
```

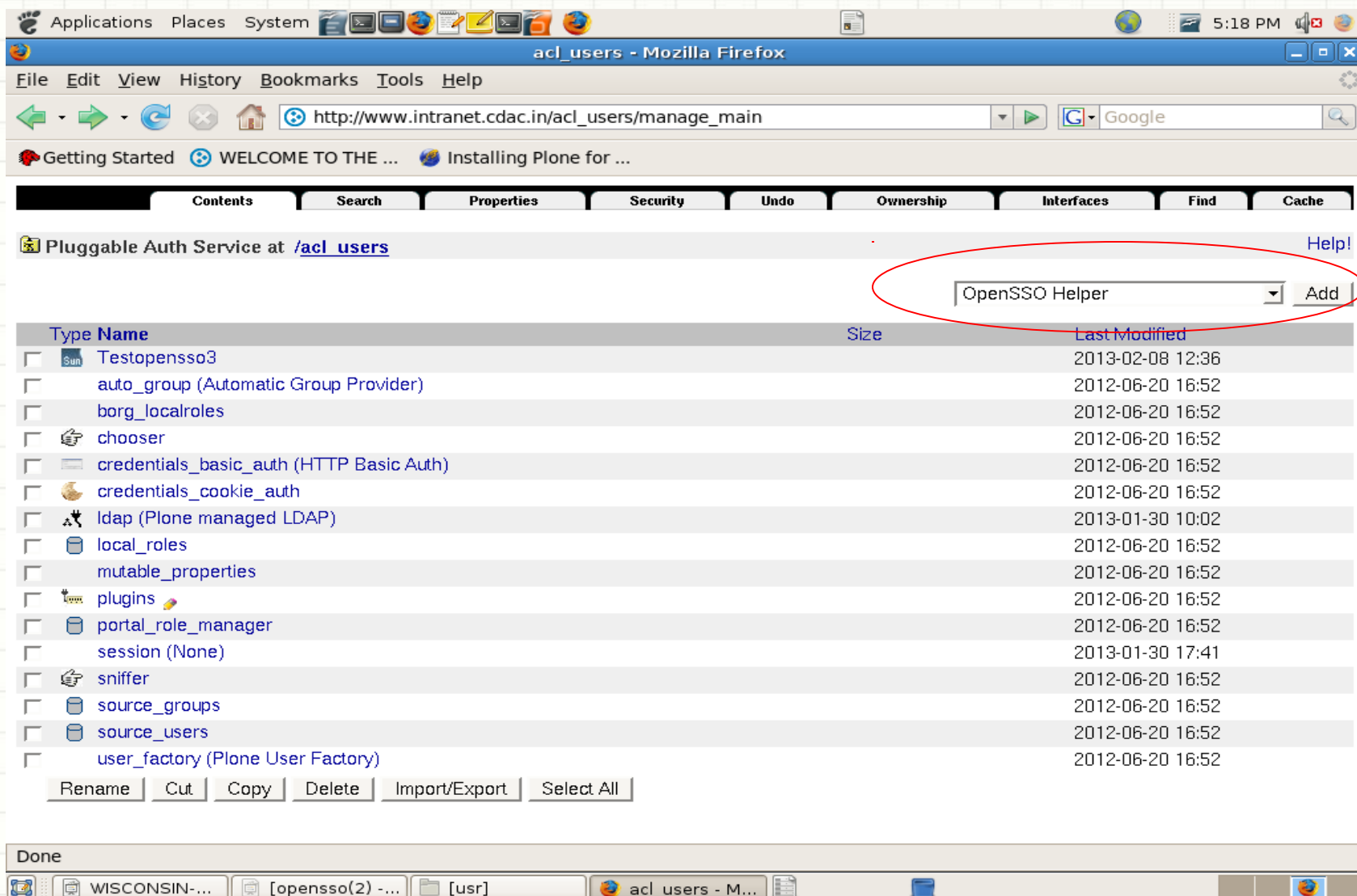
```
develop =  
    src/collective.pas.opensso
```

```
~/zinstance#./bin/buildout
```

# Adding OpenSSOHelper

- In the ZMI of your Plone Site under acl\_users add OpenSSO Helper from the drop down list.
- Submit the configuration information there.

# Adding OpenSSOHelper



Applications Places System 5:18 PM

acl\_users - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.intranet.cdac.in/acl\_users/manage\_main

Getting Started WELCOME TO THE ... Installing Plone for ...

Contents Search Properties Security Undo Ownership Interfaces Find Cache

Pluggable Auth Service at /acl\_users [Help!](#)

OpenSSO Helper Add


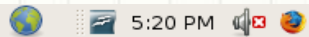
| Type                     | Name                                     | Size | Last Modified    |
|--------------------------|--|------|------------------|
| <input type="checkbox"/> | Testopensso3                             |      | 2013-02-08 12:36 |
| <input type="checkbox"/> | auto_group (Automatic Group Provider)    |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | borg_localroles                          |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | chooser                                  |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | credentials_basic_auth (HTTP Basic Auth) |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | credentials_cookie_auth                  |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | ldap (Plone managed LDAP)                |      | 2013-01-30 10:02 |
| <input type="checkbox"/> | local_roles                              |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | mutable_properties                       |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | plugins                                  |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | portal_role_manager                      |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | session (None)                           |      | 2013-01-30 17:41 |
| <input type="checkbox"/> | sniffer                                  |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | source_groups                            |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | source_users                             |      | 2012-06-20 16:52 |
| <input type="checkbox"/> | user_factory (Plone User Factory)        |      | 2012-06-20 16:52 |

Rename Cut Copy Delete Import/Export Select All

Done




WISCONSIN-... [opensso(2) -... [usr] acl\_users - M...




# Adding OpenSSOHelper

Applications Places System  5:20 PM 

acl\_users - Mozilla Firefox

File Edit View History Bookmarks Tools Help

 [http://www.intranet.cdac.in/acl\\_users/?%3Aaction=manage\\_addProduct%2Fc](http://www.intranet.cdac.in/acl_users/?%3Aaction=manage_addProduct%2Fc)  Google 

 Getting Started  WELCOME TO THE ...  Installing Plone for ...

## Add ntlm Helper

OpenSSO Authentication for Pluggable Auth Service functionality.

Id

Title

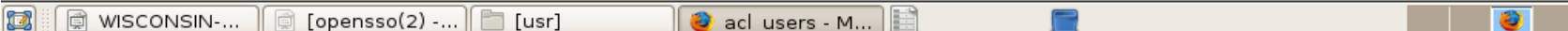
OpenSSO Server URL:

OpenSSO Authentication realm:  
The opensso realm to use for authentication  
Leave it empty to use the default.

OpenSSO User Login Property Name:  
The name of the property in the opensso Store  
that contains the user login name.

OpenSSO Service to us  
The name of the service to use:  
(will be added in url, service=)

Done

 WISCONSIN-... [opensso(2) - ...] [usr] acl\_users - M...



# Configuring Parameters

- Parameters Required

Id: ValidName

Title: OpenSSOAgent

- OpenSSO Server URL: <http://abc.mydomain.in/abcANi/>

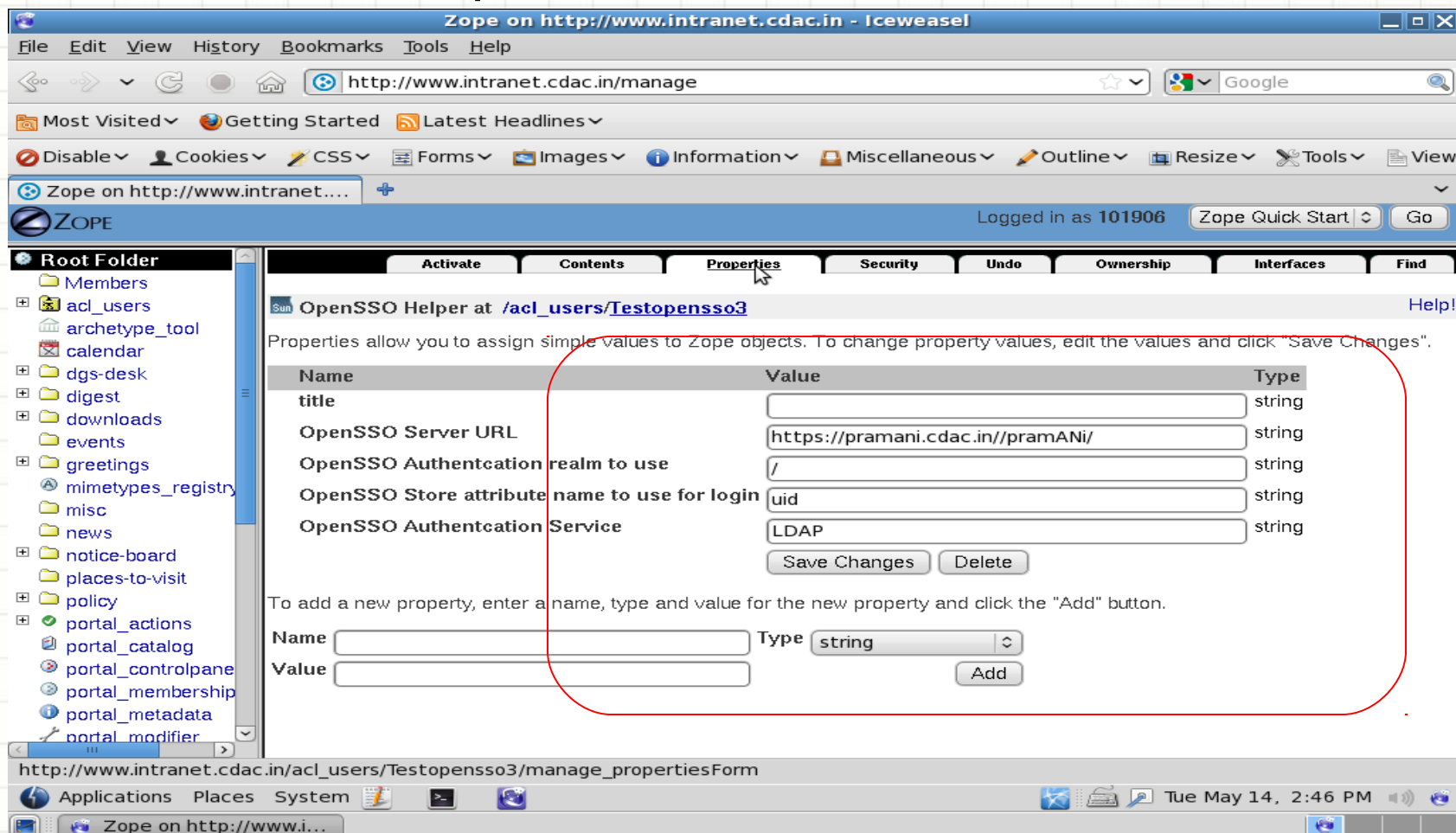
OpenSSO Authentication realm: /

OpenSSO User Login Property Name:  
username/uid

OpenSSO Service to use: LDAP

# Configuring Parameters

- Parameters Required



Properties allow you to assign simple values to Zope objects. To change property values, edit the values and click "Save Changes".

| Name  | Value  | Type   |
|---|--|--------|
| title   | <input type="text"/>   | string |
| OpenSSO Server URL                            | <input type="text" value="https://pramani.cdac.in//pramANI/"/> | string |
| OpenSSO Authentication realm to use           | <input type="text" value="/"/>                                 | string |
| OpenSSO Store attribute name to use for login | <input type="text" value="uid"/>                               | string |
| OpenSSO Authentication Service                | <input type="text" value="LDAP"/>                              | string |

To add a new property, enter a name, type and value for the new property and click the "Add" button.

Name  Type

Value

# Modify for HTTPS

- To make collective.pas.opensso work in site which is deployed with HTTPS

In the plugin.py file you have to replace

```
url = urllib.HTTPConnection(*args)
```

with

```
url = urllib.HTTPSConnection(*args)
```

# Logout :

## collective.pas.opensso

- Logout is not implemented. Do the following steps to fix it.
- ~/zinstance/src/collective.pas.opensso/collective/pas/opensso]\$ ee plugin.py  
a) in the plugin.py file modify the function:  
def logout(self, request):

```
def resetCredentials(self, request, response):  
    """ reset Credentials while logging out  
    """  
  
    params = "  
    headers = {'Cookie':  
self._get_cookies_to_forward(request)}  
    data =  
self._opensso_rest_call(REST_OPENSSO_LOGOUT, params,  
                        headers)  
    return data
```

# Logout : continues..

b) In the bottom of the plugin.py file there is a call to “classImplements”, Modify like below:

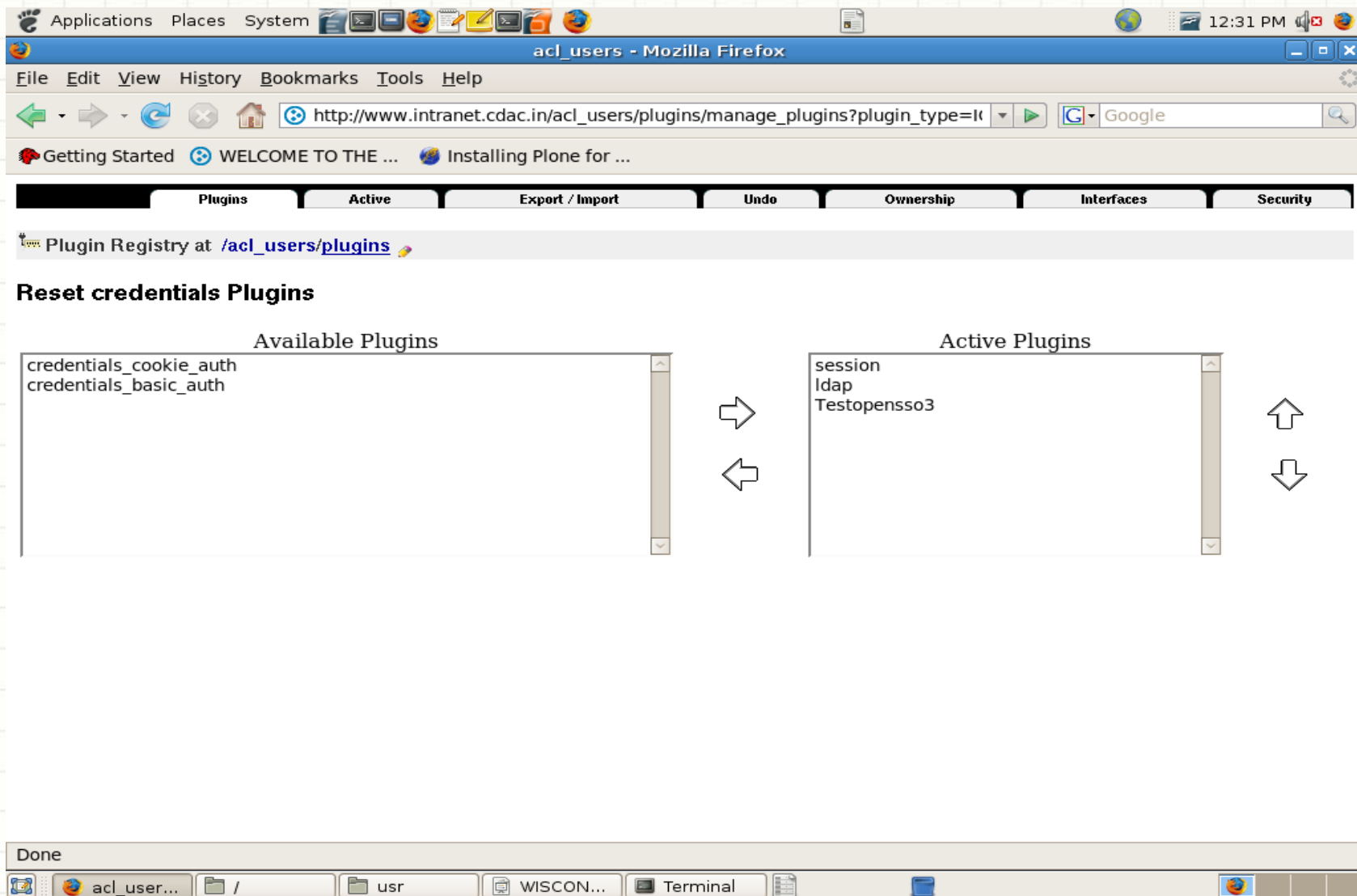
```
classImplements(OpenSSOHelper,  
                interfaces.plugins.IChallengePlugin,  
                interfaces.plugins.IExtractionPlugin,  
                interfaces.plugins.IAuthenticationPlugin,  
                interfaces.plugins.ICredentialsResetPlugin)
```

c) Then in plone site URL: go to  
[acl\\_users/plugins/manage\\_plugins?](#)  
[plugin\\_type=ICredentialsResetPlugin](#)  
OR site [ZMI/acl\\_users/plugins/](#) Click Reset Credentials Plugins

Add the created opensso plugin in the **BOTTOM** of the list.



# Add the Plugin to bottom



Applications Places System 12:31 PM

acl\_users - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.intranet.cdac.in/acl\_users/plugins/manage\_plugins?plugin\_type=it Google

Getting Started WELCOME TO THE ... Installing Plone for ...

Plugins Active Export / Import Undo Ownership Interfaces Security

Plugin Registry at /acl\_users/plugins

### Reset credentials Plugins

Available Plugins

credentials\_cookie\_auth  
credentials\_basic\_auth

➔

➜

Active Plugins

session  
ldap  
Testopenso3

⬆

⬇

Done

acl\_user... / usr WISCON... Terminal

# Activate the Plugins

- Click on "openssoplugin" you created. Check that the three following plugins are active.
- Authentication (authenticateCredentials)
- Challenge (challenge)
- Extraction (extractCredentials)
  
- Check that in the "Challenge (challenge)" plugin the "openssoplugin" you created is on the TOP of the list.
- Check that in the "Authentication (authenticateCredentials)" plugin the "openssoplugin" you created is on the BOTTOM of the list.
- Check that in the "Extraction (extractCredentials)" plugin and the "openssoplugin" you created is on the BOTTOM of the list.
  
- Finally check that the server on which your plone site is installed has access to the opensso server.

# Interfacing with Web Services

# Employee profile from webservices

- To populate the profiles of Employees
- The information is populated using TAL in author.pt
- The implemented web service accepts employee number as filter criteria and returns the data
- Details such as Gender, group, Centre location, DOB etc are retrieved.

# Access webservice

- We used an External Method
- Defined a function which accepts two parameters
- The function access a web service with employee number as filter criteria and returns the requested attributes



# Create the module

## **webserv\_hrms.py**

```
import simplejson
import httplib
#import urlparse
def webserv (self,token,empno):
    try:
        url='https://hms.cdac.in/hms/ws/WebService/get'
        connection = httplib.HTTPSConnection("hms.cdac.in")
        headers={"Content-Type":"application/json"}
        data={'@tokenId': token, 'fieldNameList': ['empld', 'empName',
            'gender', 'centre', 'postedLocation', 'group', 'designation', 'dateOfBir
th', 'employeeImage', 'officialEmail'],
            'filterParameters': [{'parameterName': 'empld','parameterValue':
empno}
        ]}
```

# Create the module Continued..

```
params=simplejson.dumps(data)  
connection.request("POST", url, params, headers)  
response = connection.getresponse()  
res=response.read()  
result=simplejson.loads(res)  
result['JSON_OUTPUT'][0]  
[8]='data:image/png;base64,'+result['JSON_OUTPUT'][0][8]  
return result
```

# Add an External Method in ZMI

- **Now in the ZMI from the dropdown list add External Method with**

Id:       testing\_hrms\_webserv

Module Name :   webserv\_hrms

Function Name:   webserv

- Author.pt
- Call the External Method using TAL

# Call the method in Author.pt and Modify

- **Add the following to author.pt**

`(token=request.cookies.get("iPlanetDirectoryPro"))`

```
<table id="one-column-emphasis" tal:define="token
python:context.testtoken();empno
python:int(str(author));emp_data
python:context.testing_hrms_webserv(token,empno)">
<tr >
<td>Employee Id</td><td
tal:content="python:emp_data['JSON_OUTPUT'][0][0]"></td>
</tr>
</table>
```

# Scheduling jobs

- You can either use Zope Clock server or Cron
- We used Cron and Mechanize module

Min Hrs DoM Mon Day

```
17 4 * * *  
/home/bhagat/cronjob.sh
```

```
#!/bin/sh  
export http_proxy="http://proxyserver:portnumber"  
scriptpath=$(dirname $0)  
$scriptpath/mechanizeTest.py
```



# Mechanize

```
#!/usr/local/bin/python
import urllib
import shutil
import re,sys,os,mechanize
secure_login = ""
import socket
url_site = 'www.intranet.cdac.in'
url_cron = 'http%s://
%s/portal_skins/custom/bday_sender2/ZScriptHTML_tryForm'%
(secure_login,url_site)
url_login = 'http%s://%s/login_form'%(secure_login,url_site)
b = mechanize.Browser()
b.open(url_login)

b.select_form(nr=0)
b['__ac_name'] = 'mechanize'
b['__ac_password'] = 'passwd'
## submit the form
b.submit()
b.open(url_cron)
data=b.response()
data = data.read()
```

# Intranet Portal - Unique Features

- Single Sign-on and OpenLDAP integration are required features for corporate intranet portals.
- Remote content management and communication
- Interactive platform for Employer and Employees.
- Potential Customers can be Content Managers, End Users, Integrators and Developers in IT Organizations, SMEs, Academics and Corporates.
- Documentation and implementation details made available[6].
- Any queries , feel free to contact [ghaneshkk@cdac.in](mailto:ghaneshkk@cdac.in)

**Questions ?**

# References

- [1] <http://plone.org>
- [2] <https://pypi.python.org/pypi/Products.PloneLDAP>
- [3] <https://pypi.python.org/pypi/plone.app ldap>
- [4] <https://svn.plone.org/svn/collective/collective.pas.opensso>
- [5] <http://permalink.gmane.org/gmane.comp.web.zope.plone.collective.cvs/139068>
- [6] <http://www.iosn.net/live/PloneLDAPHowTos>
- [7] <http://openam.forgerock.org/openam-documentation/openam-doc-source/doc/admin-guide/index/chap-ssso.html>

# Thank You

I thank , University of Wisconsin, Organizers of PSM 2013  
and CDAC  
for sponsoring me for this event