

DEPLOY CAS CLIENT MODULE ON OBM SYSTEMS

04th, December, 2013

System Requirements

- OBM 2.5.3
- LAMP Stack:
 - Apache 2.2.15
 - MySQL 5.5.34
 - PHP 5.4.21
- Roundcubemail 0.8.7
- Roundcube plugin
 - <https://github.com/dfwarden/Roundcube-CAS-Authn>
- phpCAS 1.3.2 (<https://wiki.jasig.org/display/CASC/phpCAS>)

Preparations

1. Backup your Roundcube configuration

```
# cd /usr/share/obm/php/webmail/config  
# cp main.inc.php main.inc.php.bak
```

2. Make a new dir named “cas_authn_testing” in roundcube's plugin dir

```
# mkdir -p /usr/share/obm/php/webmail/plugins/cas_authn_testing  
# chown -R apache.apache /usr/share/obm/php/webmail/plugins/cas_authn_testing  
# ls -l /usr/share/obm/php/webmail/plugins | grep cas
```

Deploy CAS Client Module

1. Download CAS client module to your client box

```
# git clone git@github.com:dfwarden/Roundcube-CAS-Authn.git
```

2. Upload downloaded CAS client module to your OBM Systems

```
# rsync -avz -e 'ssh -p 8022' cas_authn/* root@<your-server-hostname>:/usr/share/obm/php/webmail/plugins/cas_authn_testing/
```

3. Download phpCAS 1.3.2 to your OBM Systems

```
# cd /usr/share/obm/php/webmail/plugins/cas_authn_testing
# wget downloads.jasig.org/cas-clients/php/current/CAS-1.3.2.tgz
# wget http://downloads.jasig.org/cas-clients/php/1.2.2/CAS-1.2.2.tgz
# tar zxvf CAS-1.3.2.tgz
# tar zxvf CAS-1.2.2.tgz
# mv -v CAS-1.3.2/* .
# mv -v CAS-1.2.2/* .
# rm -R CAS-1.3.2
# rm -Rf CAS-1.2.2
```

4. Chown “apache” user and group to dir containing CAS client module

```
# chown -R apache.apache /usr/share/obm/php/webmail/plugins/cas_authn_testing/
# chown -R apache.apache /usr/share/obm/php/webmail/plugins/cas_authn
```

5. Config your roundcube configuration to use new installed plugin

```
# cd /usr/share/obm/php/webmail/config
```

```
# vim main.inc.php +383
// -----
// PLUGINS
// -----
// List of active plugins (in plugins/ directory)
// $rcmail_config['plugins'] = array('obm_cas_client');
$rcmail_config['plugins'] = array('cas_authn');
```

Save the config file and exit.

6. Rename config.inc.php.dist file

```
# cd /usr/share/obm/php/webmail/plugins/cas_authn/
# cp config.inc.php.dist config.inc.php
```

7. Reload your Apache Web Server

```
# service httpd reload
```

8. Access your Roundcube Webmail

<https://<your-server-hostname>/webmail/>

Your web client content will be displayed as below:

The image shows the Roundcube web client login interface. At the top left is the 'roundcube' logo, which consists of the word 'roundcube' in a sans-serif font followed by a blue 3D cube icon with a white sphere on top. Below the logo is a blue hyperlink that reads 'Sign in using Central Authentication Service'. A horizontal dotted line separates this link from the login fields. There are two input fields: the first is labeled 'Username' and the second is labeled 'Password'. Both fields are white with a thin blue border. Below the password field is a grey 'Login' button with the word 'Login' in black text.

roundcube

[Sign in using Central Authentication Service](#)

Username

Password

Login

9. Click the button “Sign in using Central Authentication Service” if you want to use SSO

Deploy pam_cas module

Preparation

- openssl (1.0.0)
- development tools (gcc, cvs, libgcc...)

1. Download the module “pam_cas”

```
# cd /usr/share/obm/php/webmail/plugins/cas_authn_testing
# wget https://sourcesup.renater.fr/frs/download.php/2418/Pam\_cas-2.0.11-esup-2.0.5.tar.gz
# tar zxvf Pam_cas-2.0.11-esup-2.0.5.tar.gz
```

2. Verify that openssl is installed on system

```
# rpm -qa | grep openssl
```

3. Verify that “development tools” are installed on system

```
# rpm -qa | grep gcc
# yum groupinstall "Development Tools"
```

4. Compile the module

```
# cd Pam_cas-2.0.11-esup-2.0.5/sources/
# mv Makefile.redhat Makefile
# vim Makefile +8
Edit the content of Makefile as below:
CPFLAGS = -O2 -fPIC
Save the file and exit.
# make
# make test
# ldd pam_cas.so
```

5. Review the configuration file of the module

```
# cd /usr/share/obm/php/webmail/plugins/cas_authn_testing/Pam_cas-2.0.11-esup-2.0.5/  
# less pam_cas.conf
```

6. Using the module (Integration for the IMAP Server)

```
# cd /usr/share/obm/php/webmail/plugins/cas_authn_testing/Pam_cas-2.0.11-esup-2.0.5/sources  
# cp pam_cas.so /lib/security/  
# cp ../pam_cas.conf /etc/  
# ls -l /lib/security/  
# cp /etc/pam.d/imap /etc/pam.d/imap.bak  
# vim /etc/pam.d/imap  
auth    sufficient /lib/security/pam_cas.so -simap://127.0.0.1 -f/etc/pam_cas.conf
```

Save the file and exit.

```
# service cyrus-imapd restart
```

7. Configure the module

http://www.esup-portail.org/consortium/espace/SSO_1B/tech/cas/cas_pam.html