

Creating a MyProxy Plugin for Joomla 1.7

This document describes how to create a [MyProxy](#) Plugin for [Joomla 1.7](#). See "[Creating an Authentication Plugin for Joomla 1.5](#)" for details of how-to-create custom authentication plugins.

For this, we need to create five files as following:

1. myproxy.xml
2. en-GB.plg_authentication_myproxy.sys.ini
3. en-GB.plg_authentication_myproxy.ini
4. myproxy.php
5. index.html (dummy)

Plug-in Manager's view in Joomla

After deploying the MyProxy plugin into Joomla, we can see the following view via Plug-in Manager. For this view, we create the manifest xml file and two language-files such as 'en-GB.plg_authentication_myproxy.sys.ini' and 'en-GB.plg_authentication_myproxy.ini'.

The screenshot shows the Joomla! Administration interface. At the top is the 'Administration' header with the Joomla! logo. Below it is a navigation menu with tabs: Site, Users, Menus, Content, Components, Extensions, and Help. The 'Extensions' tab is active, showing '1 Logged-in frontend' and '1 Logged-in backend'. The main content area is titled 'Plug-in Manager: Authentication - MyProxy'. It features a 'Details' section on the left and a 'Basic Options' section on the right. The 'Details' section includes fields for 'Enabled' (set to 'Enabled'), 'Access' (set to 'Public'), 'Ordering' (set to '4. Authentication - MyProxy'), 'Plug-in Type' (set to 'authentication'), 'Plug-in File' (set to 'myproxy'), 'ID' (set to '801'), and a 'Description' field containing the text: 'Handles User Authentication against a MyProxy server' and 'Warning! You must have at least one authentication plugin enabled or you will lose all access to your site.' The 'Basic Options' section includes fields for 'Host' (set to 'topaz.kisti.re.kr'), 'Port' (set to '7512'), 'Lifetime' (set to '12'), and 'Outfile Directory' (set to '/tmp'). At the bottom of the interface, it states 'Joomla!® is free software released under the GNU General Public License. Version 1.7.0'.

Create the XML install manifest and language files

The myproxy.xml

Basic options are set from field set name 'basic' in the right side of above figure.

```

<?xml version="1.0" encoding="utf-8"?>
<extension version="1.7" type="plugin" group="authentication">
  <name>plg_authentication_myproxy</name>
  <author>KISTI</author>
  <creationDate>August 2011</creationDate>
  <copyright>Copyright (C) 2011 KISTI Supercomputing Center. All rights reserved.</copyright>
  <license>GNU General Public License version 2 or later; see LICENSE.txt</license>
  <authorEmail>dynam@kisti.re.kr</authorEmail>
  <authorUrl>www.kisti.re.kr</authorUrl>
  <version>0.9.0</version>
  <description>PLG_MYPROXY_XML_DESCRIPTION</description>
  <files>
    <filename plugin="myproxy">myproxy.php</filename>
    <filename>index.html</filename>
  </files>
  <languages>
    <language tag="en-GB">en-GB.plg_authentication_myproxy.ini</language>
    <language tag="en-GB">en-GB.plg_authentication_myproxy.sys.ini</language>
  </languages>
  <config>
    <fields name="params">

      <fieldset name="basic">
        <field name="host" type="text"
          default="localhost"
          description="PLG_MYPROXY_FIELD_HOST_DESC"
          label="PLG_MYPROXY_FIELD_HOST_LABEL"
          size="20"

        />

        <field name="port" type="text"
          default="7512"
          description="PLG_MYPROXY_FIELD_PORT_DESC"
          label="PLG_MYPROXY_FIELD_PORT_LABEL"
          size="20"

        />
        <field name="lifetime" type="text"
          default="12"
          description="PLG_MYPROXY_FIELD_LIFETIME_DESC"
          label="PLG_MYPROXY_FIELD_LIFETIME_LABEL"
          size="20"

        />
        <field name="outdir" type="text"
          default="/tmp"
          description="PLG_MYPROXY_FIELD_OUTDIR_DESC"
          label="PLG_MYPROXY_FIELD_OUTDIR_LABEL"
          size="20"

        />
      </fieldset>

    </fields>
  </config>
</extension>

```

en-GB.plg_authentication_myproxy.sys.ini

```

PLG_AUTHENTICATION_MYPROXY="Authentication - MyProxy"
PLG_MYPROXY_XML_DESCRIPTION="Handles User Authentication against a MyProxy server <br>
<strong> Warning! You must have at least one authentication plugin enabled or you will lose all access to your
site.</strong>"

```

en-GB.plg_authentication_myproxy.ini

```

PLG_AUTHENTICATION_MYPROXY="Authentication - MyProxy"
PLG_MYPROXY_FIELD_HOST_DESC="For example: myproxy.kisti.re.kr"
PLG_MYPROXY_FIELD_HOST_LABEL="Host"
PLG_MYPROXY_FIELD_PORT_DESC="Default port is 7512"
PLG_MYPROXY_FIELD_PORT_LABEL="Port"
PLG_MYPROXY_FIELD_LIFETIME_DESC="Default lifetime is 12 hours"
PLG_MYPROXY_FIELD_LIFETIME_LABEL="Lifetime"
PLG_MYPROXY_FIELD_OUTDIR_DESC="Default outfile directory is /tmp"
PLG_MYPROXY_FIELD_OUTDIR_LABEL="Outfile Directory"
PLG_MYPROXY_XML_DESCRIPTION="Handles User Authentication against a MyProxy server <br>
<strong> Warning! You must have at least one authentication plugin enabled or you will lose all access to your
site.</strong>"

```

Create myproxy.php file

The plgAuthenticationMyproxy Class

The onUserAuthenticate() Method

```

function onUserAuthenticate($credentials, $options, &$amp;response)
{
    // Initialise variables.
    $success = 0;

    // For JLog
    $response->type = 'MYPROXY';
    // MYPROXY does not like Blank passwords (tries to Anon Bind which is bad)
    if (empty($credentials['password']))
    {
        $response->status = JAUTHENTICATE_STATUS_FAILURE;
        $response->error_message = JText::_('JGLOBAL_AUTH_PASS_BLANK');
        return false;
    }

    $myproxy_server = $this->params->get('host');
    $myproxy_port = $this->params->get('port');
    $username = $credentials['username'];
    $passphrase = $credentials['password'];
    $lifetime = $this->params->get('lifetime');
    $outfile = $this->params->get('outdir') . '/x509up_u' . $username;
    $DEBUG = false;
    $success = $this->myproxy_logon($myproxy_server, $myproxy_port, $username, $passphrase,
    $lifetime, $outfile, $response, $DEBUG);

    if (!$success)
    {
        if (!strlen($response->status)) $response->status =
        JAUTHENTICATE_STATUS_FAILURE;
        if (!strlen($response->error_message)) $response->error_message = JText::_
        ('JGLOBAL_AUTH_INCORRECT');
    }
    else
    {
        // Grab some details from MYPROXY and return them
        $response->username = $username;
        $response->email = $username . '@myproxy.server';
        $response->fullname = $username;

        // Were good - So say so.
        $response->status = JAUTHENTICATE_STATUS_SUCCESS;
        $response->error_message = '';
    }
}

```

The myproxy_logon() Method

We use a [myproxyClient.php](#) provided in the [MyProxy website](#). This allows anonymous user to retrieve credentials form a MyProxy Server.

The complete package

[plg_myproxylogin-1.7.0.zip](#)