

Apache Integration with Crowd

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- See [http://confluence.atlassian.com/display/CROWD/Integrating Crowd with Apache](http://confluence.atlassian.com/display/CROWD/Integrating+Crowd+with+Apache)

Steps:

- Install your OS (assuming CentOS or similar) be sure to include dev-tools
- `yum install apache`
- `yum install mod_ssl`
- `yum install mod_perl`
- `yum install perl-Crypt-SSLeay` (needed for https transport of SOAP)
- `yum install perl-Digest-SHA1`
- `yum install cpan`
- modify `/etc/sysconfig/iptables` to allow connections on port 80 and port 443
 - `-A RH-Firewall-1-INPUT -p tcp --dport 80 -j ACCEPT`
 - `-A RH-Firewall-1-INPUT -p tcp --dport 443 -j ACCEPT`
- `service iptables restart`
- `perl -MCPAN -e shell`
- setup CPAN using the defaults, (for URLs I usually go with the http addresses they seem to respond faster)
- for all of the following say yes to follow dependencies if asked
 - `install Error`
 - `install Cache::Cache`
 - `install SOAP::Lite` (note: The current version 0.710.08 has a bug in the test script, you can either hack the CGI.t file and build manually or force install the module(easier))
The error I got looked like this:
t/SOAP/Transport/HTTP/CGI.t 1/?
Failed test 'return utf8 string'
at t/SOAP/Transport/HTTP/CGI.t line 57.
Failed test 'utf8 content: Ãberall'
at t/SOAP/Transport/HTTP/CGI.t line 59.
got: 'Ãberall'
expected: 'Ãberall'
Looks like you failed 2 tests of 2.
t/SOAP/Transport/HTTP/CGI.t Dubious, test returned 2 (wstat 5 12, 0x200)
Failed 2/2 subtests

(possibly "install Bundle::CPAN" "reload cpan" may resolve the test issue)

- `exit CPAN`
- `wget http://confluence.atlassian.com/download/attachments/9961902/Crowd-Apache-Connector-1.2.3.zip?version=1`
- `unzip Crowd-Apache-Connector-1.2.3.zip`
- `cd Atlassian-Crowd-1.2.3/`
- `perl Makefile.PL`
- `make`
- `make install`
- `cd ../Apache-CrowdAuth-1.2.3/`
- `perl Makefile.PL`
- `make`
- `make install`
- `cd ../Apache-CrowdAuthz-1.2.3/`
- `perl Makefile.PL`
- `make`
- `make install`
- edit `/etc/httpd/conf/httpd.conf` or `/etc/httpd/conf.d/site.conf` depending on what you want to protect
Put the following inside an appropriate `<Directory>` or `<Location>` directive

```
AuthName <some appropriate name to clue the user as to what password to use like Crowd>
AuthType Basic

PerlAuthenHandler Apache::CrowdAuth
PerlSetVar CrowdAppName <put app name here>
PerlSetVar CrowdAppPassword <put password here>
PerlSetVar CrowdSOAPURL https://crowd.crbs.ucsd.edu/crowd/services/SecurityServer
PerlSetVar CrowdCacheEnabled on
PerlSetVar CrowdCacheLocation /tmp/CrowdAuth
PerlSetVar CrowdCacheExpiry 300

require valid-user
```

- CrowdAppName and CrowdAppPassword are configured on the Crowd server and CrowdSOAPURL points to the machine running Crowd, in this case our dev server
- To force https connections create the file `/etc/httpd/conf.d/mod_rewrite.conf` and put the following lines in it

```

# port 80 needs to go to port 443 - SSL - No exceptions
####

<IfModule !mod_rewrite.c>
LoadModule rewrite_module modules/mod_rewrite.so
</IfModule>
<IfModule mod_rewrite.c>
RewriteEngine on

####
# The line below sets the rewrite condition for mod_rewrite.so.
# That is, if the server port does not equal 443, then this condition is true
####

RewriteCond %{SERVER_PORT} !^443$

####
# The line below is the rule, it states that if above condition is true,
# and the request can be any url, then redirect everything to https:// plus
# the original url that was requested.
####

RewriteRule ^/(.*) https://%{HTTP_HOST}/$1 [NC,R,L]
</IfModule>

```

- `service httpd restart`
- Configure Crowd for a new Application** See [http://confluence.atlassian.com/display/CROWD/Adding an Application](http://confluence.atlassian.com/display/CROWD/Adding+an+Application)** Details** **Application**
Type: Generic Application** Name: Whatever you put in the config for Apache
 - Password: Whatever you put in the config for Apache
 - Connection*** _URL: URL for your application (e.g. <http://dev-apache-crowd.crbs.ucsd.edu/>)
 - Remote IP Address: 127.0.0.1 (this is because forwarding makes it look like a locally hosted app, I think)
 - Directories*** Select which directories you want to use and/or the groups within them that are allowed
 - Authorizations*** Select groups from those directories, if desired
- TEST