

OpenSIPS Presence Server with XCAP Privacy Rules

Install Guide

The tutorial is a step by step install guide for setting up a OpenSIPS SIP presence server with privacy rules support using OpenXCAP as XCAP server.

I. Install OpenXCAP

To install OpenXCAP follow the directions from the OpenXCAP site:
<http://openxcap.org/wiki/Installation>

You will find in the archive in **config** directory a file named `openxcap_config.ini` . This is a configuration file example for openxcap. You must copy it in `/etc/openxcap/config.ini` and edit it according to your configuration.

Finally, start the service:

`/etc/init.d/openxcap start`

II. Install OpenSIPS

1. Get the sources

Download the the sources for the stable OpenSIPS release version 1.5.3 :

```
wget http://opensips.org/pub/opensips/latest/src/opensips-1.5.3-notls_src.tar.gz
```

2. Compile and Install

Extract:

```
tar -xvf opensips-1.5.3-notls_src.tar.gz
```

You can rename the directory to opensips_presence:

```
mv opensips-1.5.3-notls opensips_presence.
```

Also it is recommended to move the sources in the default source directory:

```
mv opensips_presence /usr/local/src/.
```

Go to the directory

```
cd /usr/local/src/opensips_presence
```

Apart from the modules that are compiled by default, **presence**, **presence_xml** , **db_mysql** and **mi_xmlrpc** modules are also needed. Not to compile each manually, you can remove them from the **exclude_modules** list defined in Makefile file before running make. Open the Makefile at line 52 and remove the modules mentioned above from the list.

There are some packages that OpenSIPS needs and which you should install beforehand. Run this command:

```
apt-get install bison flex libmysqlclient15-dev libxml2-dev libxmlrpc-c3-dev
```

You can configure a location where to install the server by editing the Makefile.defs file and defining the prefix script variable(line 224). Example:

```
prefix=/usr/local/opensips_presence
```

If you don't configure the prefix, the default locations will be used (/usr/local/lib/opensips/ for libraries, /usr/local/etc/opensips/ for configuration file, etc.)

Compile and install :

make all

make install

3. Database

The presence server requires access to a database with presence tables installed. To create a new database you have to run the command:

opensipsdbctl create

If you use a prefix, you will find this command in the sbin directory where opensips is installed.

4. Configuration file

You can have the presence server integrated with the proxy or separate, running on a different machine or a different port and handling only presence requests. For the latter you need to configure the proxy such that it forwards all presence requests(PUBLISH, SUBSCRIBE and NOTIFY) to the presence server.

You will find in the **config** directory of the archive a configuration file example opensips_presence.m4 for a separate presence server together with the file with the local definitions local.m4.

You need to edit these files. In the opensips_presence.m4, the **mpath** variable has to be set to the path of the module libraries(line 33). The value present there is for the prefix set as in the example mentioned before.

The meaning of the variables present in local.m4 file is:

MY_IP : - the IP of the interface where the presence server will be listening for requests

MY_PORT - the port used by the presence server

SERVER_IP - the IP address of the proxy

SERVER_PORT - the port used by the proxy

DB_HOST, DB_USER, DB_PASSWD, DB_NAME – address, username, password and name to be used for database access.

Be sure to configure the port parameter of mi_xmlrpc module to the same value as the port configured for the opensips server in the openxcap configuration file.

5. Starting script

To manipulate the server easily it is indicated to write a init script in the /etc/init.d/ directory. You will find a file example named opensips_presence in the archive. Edit as needed and copy it in the /etc/init.d directory.

6. Start the server

Run:

/etc/init.d/opensips_presence start

7. Debugging

To check if the server is running, search for the process in the process table:

ps aux | grep opensips

If no process is found look for errors in the log file. It is indicated to add a filter in syslog for local0 , configured as log facility for OpenSIPS and send the log messages to a separate file(ex: /var/log/opensips_presence).

For more info read the documentation from the OpenSIPS site:

<http://opensips.org/index.php?n=Resources.Documentation>.