

Third Party Libraries

About

We will explain here how you can use luarocks to install third party libraries and use them in your Lua application

Luarocks

Luarocks is a package/library manager for lua. It can install libraries into a systemwide directory and then you can Freeswitch's LUA to use them. You may have to install a systemwide lua just to keep the luarocks installer happy...

For example if you want the LuaXML library in Ubuntu 12.04:

```
sudo apt-get install lua5.2 luarocks
luarocks install luaxml
```

Then edit `/usr/local/freeswitch/conf/autoload_configs/lua.conf.xml`, de-comment lines to leave the following:

```
<param name="module-directory" value="/usr/lib/lua/5.2/? .so"/>
<param name="module-directory" value="/usr/local/lib/lua/5.2/? .so"/>
```

You may also add it manually in a script:

```
package.path = package.path .. ";" .. [[/usr/share/lua/5.2/? .lua]]
```

A lua script in your dialplan can now use the XML functions. A trivial example:

```
require("LuaXml")
local xobj = xml.eval('<Cmd Message="Hello"/>')
freeswitch.consoleLog("INFO","The message in the XML is "..xobj["Message"].."\n")
```

Where to put third party Lua scripts/modules

Where do I need to stick my Lua classes for FreeSWITCH to see them. I am running a Lua script from within the `/scripts` folder, but it includes (requires) another Lua file. FreeSWITCH.

The short answer is `/usr/local/share/lua/5.1/`

Alternatively, you can install a system Lua (think `apt-get` or `yum`), and the Lua embedded in freeswitch will look in the `add-ons` directory.

To do this in the `mod_lua.conf` file (currently not possible), the following development would be needed.

- * Install them to a nonstandard.
- * Push a nonstandard place into the path of where it looks.

NOTE: Assuming you have `<param name="module-directory" value="${base_dir}/scripts/? .so"/>` in `lua.conf.xml`, in the scripts, require statements in the form of:

```
require "luasql.mysql"
```

This will look for the shared object `${base_dir}/scripts/luasql/mysql.so`

NOTE: The native MySQL driver for Lua has a very bad memory leak. Do not use it.