

Install Soappy

```
[Group6@group6d Downloads]$ sudo easy_install soappy
[sudo] password for Group6:
Searching for soappy
Reading http://pypi.python.org/simple/soappy/
Reading http://pywebsvcs.sf.net/
Reading https://github.com/kiorky/SOAPpy.git
Best match: SOAPpy 0.12.5
Downloading https://pypi.python.org/packages/source/S/SOAPpy/SOAPpy-0.12.5.tar.gz#md5=2eeadc857dc0b7d6d3ba27cb5fdb1e08
Processing SOAPpy-0.12.5.tar.gz
Writing /tmp/easy_install-XqFbJ9/SOAPpy-0.12.5/setup.cfg
Running SOAPpy-0.12.5/setup.py -q bdist_egg --dist-dir /tmp/easy_install-XqFbJ9/SOAPpy-0.12.5/egg-dist-tmp-Z2nLyy
zip_safe flag not set; analyzing archive contents...
Adding SOAPpy 0.12.5 to easy-install.pth file
```

```
Installed /usr/lib/python2.7/site-packages/SOAPpy-0.12.5-py2.7.egg
Processing dependencies for soappy
Searching for wstools
Reading http://pypi.python.org/simple/wstools/
Best match: wstools 0.4.3
Downloading https://pypi.python.org/packages/source/w/wstools/wstools-0.4.3.tar.gz#md5=82f800f83195519ab6f01304456dadd9
Processing wstools-0.4.3.tar.gz
Writing /tmp/easy_install-tG2DAp/wstools-0.4.3/setup.cfg
Running wstools-0.4.3/setup.py -q bdist_egg --dist-dir /tmp/easy_install-tG2DAp/wstools-0.4.3/egg-dist-tmp-E6hLYe
zip_safe flag not set; analyzing archive contents...
wstools.tests.test_wsdl: module references __file__
Adding wstools 0.4.3 to easy-install.pth file
```

```
Installed /usr/lib/python2.7/site-packages/wstools-0.4.3-py2.7.egg
Searching for fpconst
Reading http://pypi.python.org/simple/fpconst/
Best match: fpconst 0.7.2
Downloading https://pypi.python.org/packages/source/f/fpconst/fpconst-0.7.2.tar.gz#md5=10ba9e04129af23108d24c22c3a698b1
Processing fpconst-0.7.2.tar.gz
Writing /tmp/easy_install-YPFbEg/fpconst-0.7.2/setup.cfg
Running fpconst-0.7.2/setup.py -q bdist_egg --dist-dir /tmp/easy_install-YPFbEg/fpconst-0.7.2/egg-dist-tmp-WKxJxT
zip_safe flag not set; analyzing archive contents...
Adding fpconst 0.7.2 to easy-install.pth file
```

```
Installed /usr/lib/python2.7/site-packages/fpconst-0.7.2-py2.7.egg
Searching for docutils
Reading http://pypi.python.org/simple/docutils/
Best match: docutils 0.11
Downloading https://pypi.python.org/packages/source/d/docutils/docutils-0.11.tar.gz#md5=20ac380a18b369824276864d98ec0ad6
Processing docutils-0.11.tar.gz
Writing /tmp/easy_install-yPjRqt/docutils-0.11/setup.cfg
Running docutils-0.11/setup.py -q bdist_egg --dist-dir /tmp/easy_install-yPjRqt/docutils-0.11/egg-dist-tmp-
```

QUTW6d

```
warning: no files found matching 'MANIFEST'
warning: no files found matching '*' under directory 'extras'
warning: no previously-included files matching '.cvsignore' found under directory '*'
warning: no previously-included files matching '*.pyc' found under directory '*'
warning: no previously-included files matching '*~' found under directory '*'
warning: no previously-included files matching '.DS_Store' found under directory '*'
zip_safe flag not set; analyzing archive contents...
docutils.parsers.rst.directives.misc: module references __file__
docutils.writers.docutils_xml: module references __path__
docutils.writers.html4css1.__init__: module references __file__
docutils.writers.pep_html.__init__: module references __file__
docutils.writers.s5_html.__init__: module references __file__
docutils.writers.latex2e.__init__: module references __file__
docutils.writers.odf_odt.__init__: module references __file__
Adding docutils 0.11 to easy-install.pth file
Installing rst2html.py script to /usr/bin
Installing rst2odt_prepstyles.py script to /usr/bin
Installing rst2xml.py script to /usr/bin
Installing rst2man.py script to /usr/bin
Installing rst2s5.py script to /usr/bin
Installing rst2odt.py script to /usr/bin
Installing rst2xetex.py script to /usr/bin
Installing rst2latex.py script to /usr/bin
Installing rstpep2html.py script to /usr/bin
Installing rst2pseudoxml.py script to /usr/bin
```

```
Installed /usr/lib/python2.7/site-packages/docutils-0.11-py2.7.egg
Finished processing dependencies for soappy
```

Client Soappy

```
from SOAPpy import *

server_port = '8080'

def get_load(url):
    server = SOAPProxy(url)
    ipaddress = server.hello()
    print ipaddress;

if __name__ == '__main__':
    if len(sys.argv) != 2:
        print "usage:", str(sys.argv[0]), "remote_host"
        sys.exit()
    else:
        host = str(sys.argv[1])
        url = 'http://' + host + ':' + server_port + '/'
        get_load(url)
```

Server Soappy

```
#!/usr/bin/env python
```

```

from SOAPpy import *
import os

def hello(_SOAPContext = None):
    return "Average load: " + str(os.getloadavg())

if __name__ == "__main__":
    server = SOAPServer( ( " ", 8080 ) )
    server.registerFunction( MethodSig(hello, keywords=0, context=1) )
    server.serve_forever()

```

Client xmlrpc

```

'''
Path
'''
#!/usr/bin/env python

'''
XMLRPC client / server example
reference: http://docs.python.org/library/simplexmlrpcserver.html
'''

import xmlrpclib

s = xmlrpclib.ServerProxy('http://localhost:8000')
print s.load()

# Print list of available methods
#print s.system.listMethods()

```

Server xmlrpc

```

#!/usr/bin/env python

'''
XMLRPC client / server example
reference: http://docs.python.org/library/simplexmlrpcserver.html
'''

from SimpleXMLRPCServer import SimpleXMLRPCServer
from SimpleXMLRPCServer import SimpleXMLRPCRequestHandler
import os

```

```
# Restrict to a particular path.
class RequestHandler(SimpleXMLRPCRequestHandler):
    rpc_paths = ('/RPC2',)

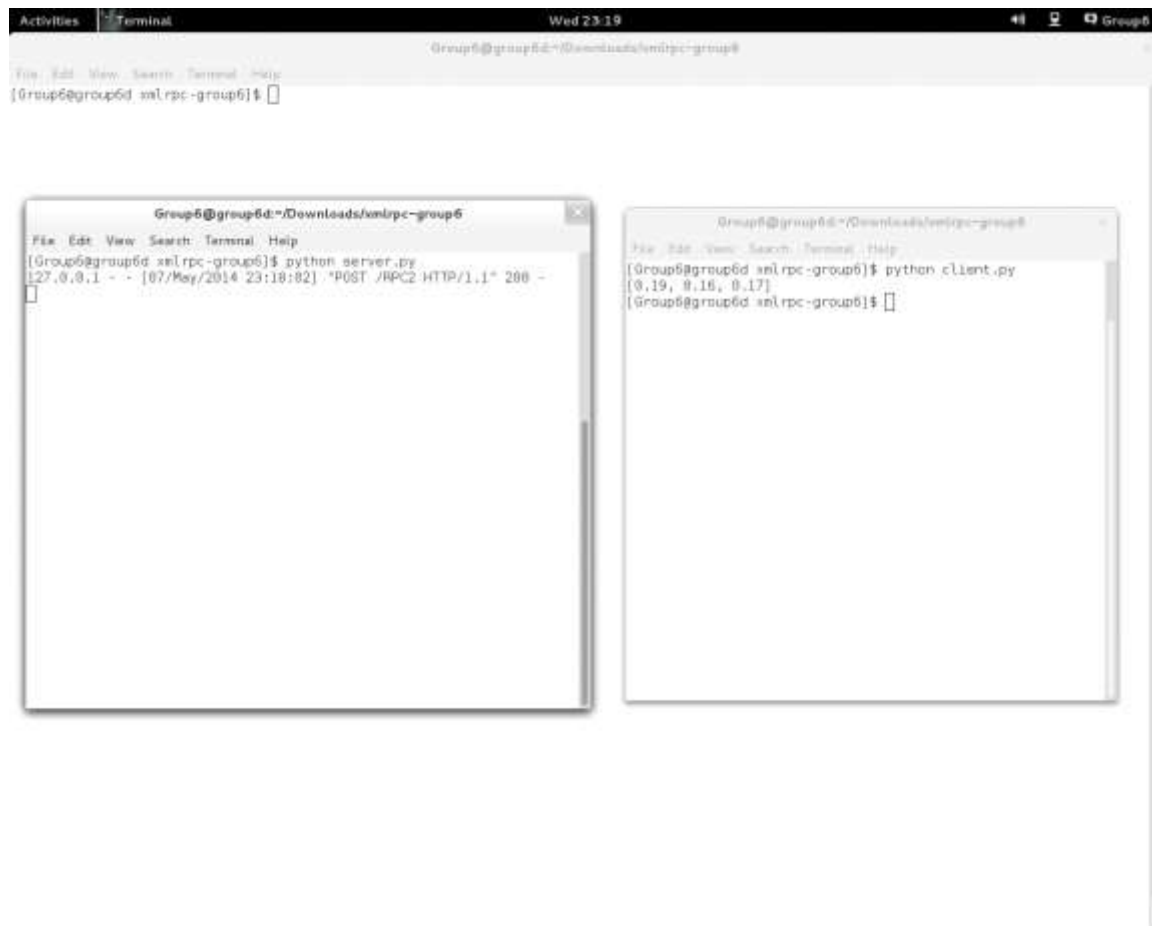
# Create server
server = SimpleXMLRPCServer(("localhost", 8000),
    requestHandler=RequestHandler)
server.register_introspection_functions()

def get_load():
    return os.getloadavg()
server.register_function(get_load, 'load')

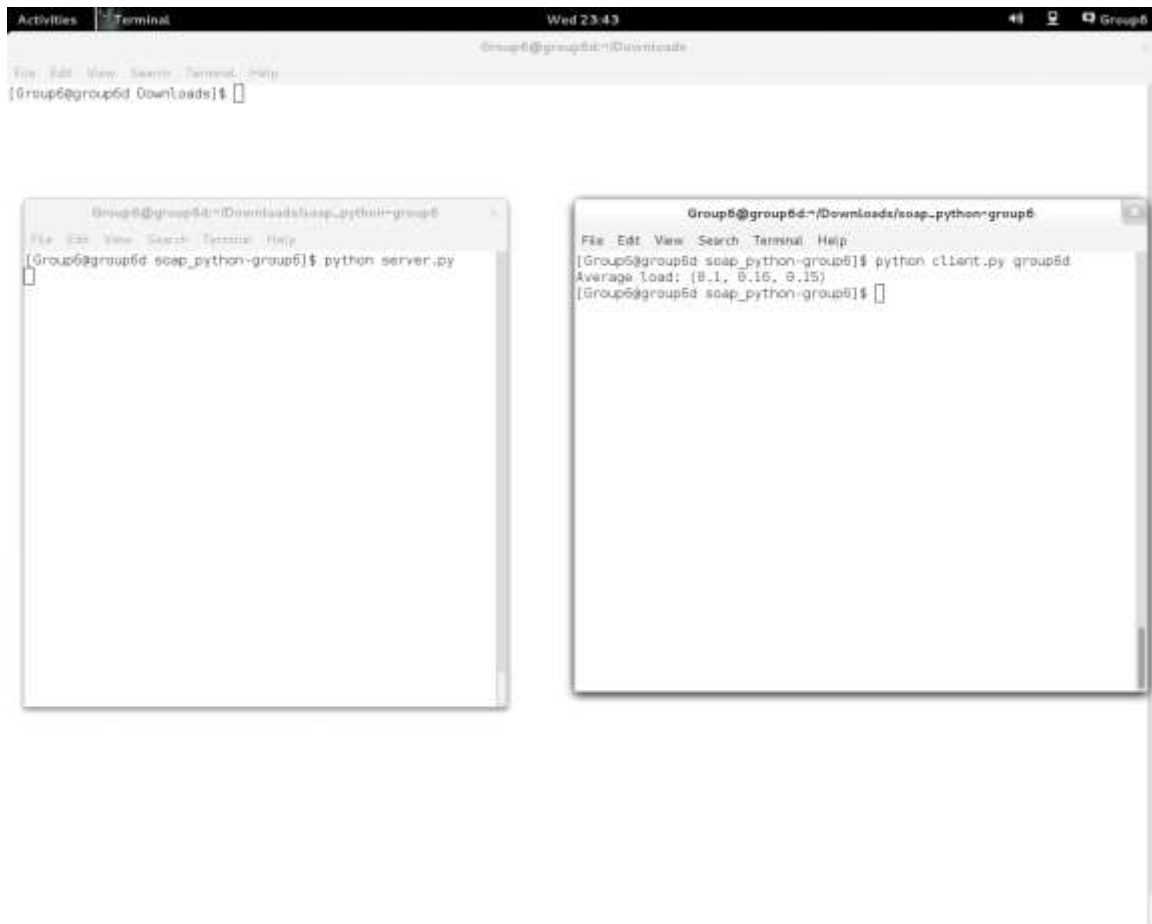
# Run the server's main loop
server.serve_forever()
```

Creating tar file

```
[Group6@group6d xmlrpc-group6]$ tar -cf xmlrpc-group6.tar client.py server.py readme
```



```
Activities Terminal Wed 23:30 Group6
Group6@group6d:~/Downloads/xmlrpc-group5
File Edit View Search Terminal Help
Group6@group6d:~/xmlrpc-group5$ tar -cf xmlrpc-group5.tar client.py server.py readme
Group6@group6d:~/xmlrpc-group5$
```



```
Activities Terminal Wed 23:47 Group6
Group6@group6d:~/Downloads/soap_python-group6
File Edit View Search Terminal Help
[group6@group6d Downloads]$ cd soap_python-group6/
[group6@group6d soap_python-group6]$ tar -cf soap_python-group6.tar client.py server.py readas
[group6@group6d soap_python-group6]$
```