How to build Restcomm-Connect/sipservlets from source (updated on 18/05/2016)

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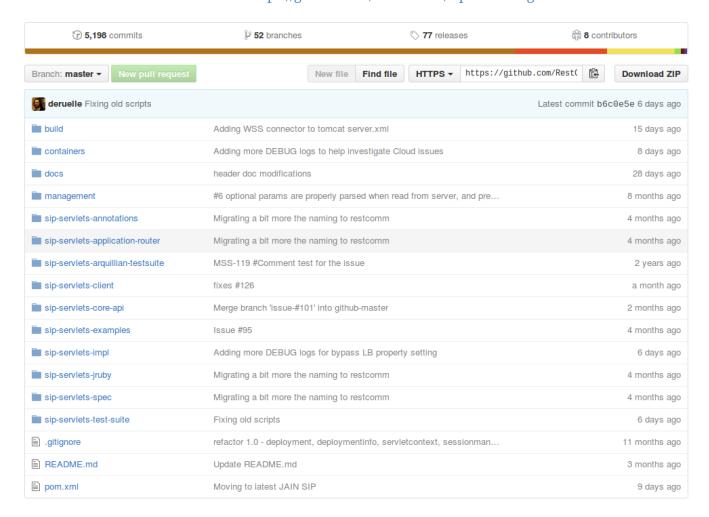
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Requirements

- You must have git installed on your computer
- You must have ant installed on your computer
- You must have JDK 7 installed on your computer
- You must be running maven version 3.x.x on your computer

Obtaining git URL

• Go to sip-servlets git. You will see the page like this one below. Copy the URL in the **HTTPS** field. The URL should look like this: https://github.com/RestComm/sip-servlets.git



Restcomm-Connect/sip-servlets cloning

In the bash window of your local computer create a directory where you should clone Restcomm-Connect/sip-servlets:

· Run the command:

git clone https://github.com/RestComm/sip-servlets.git

• This command will create a new directory called sip-servlets. Go to this directory by entering the command:

```
cd sip-servlets
```

The content of the directory should contain the following:

```
build management sip-servlets-annotations sip-servlets-client sip-servlets-impl sip-servlets-test-suite
containers pom.xml sip-servlets-application-router sip-servlets-core-api sip-servlets-jruby
docs README.md sip-servlets-arqu<u>i</u>llian-testsuite sip-servlets-examples sip-servlets-spec
```

Restcomm-Connect/sip-servlets building

• From sip-servlets folder, go to release folder by etering the command:

```
cd ./build/release
```

• At this folder, **build.xml** is the file shall be used by ant application to build sip-servlets source code. To build this source, entering the command:

```
ant -buildfile ./build.xml
```

This may take a while to build. If the build is successful, you should see this output at the end of the build:

```
release:

BUILD SUCCESSFUL

Total time: 42 minutes 11 seconds
```

Start Restcomm-Connect/sip-servlets

• At this tutorial, we will use tomcat-8 for running application. From .../sip-servlets/build/release, go to tomcat-8 bin folder by command:

```
cd ./target/apache-tomcat-8.0.26/bin
```

• Change permisson:

```
sudo chmod +x catalina.sh
```

· Start server:

./catalina.sh run

You need to wait until terminal prints out below info

```
May 19, 2016 7:19:18 AM org.apache.catalina.startup.Catalina start INFO: Server startup in 4751 ms
```

For more infomation, you can read at Restcomm-Connect starting with as 7 2.2

Stop Restcomm-Connect/sip-servlets

To stop Restcomm-Connect/sip-servlets, on terminal where Restcomm-Connect/sip-servlets was started, press Ctrl+C.

Restcomm-Connect/sip-servlets testing, sending traffic

Please refer Restcomm-Connect starting with as 7 2.2.1

Restcomm-Connect/sip-servlets IP Address configuration

At default 127.0.0.1 is the ip address of server. If you want to change the IPAddress of the server, From .../sip-servlets/build/release, go to tomcat-8 conf folder by command:

```
cd ./target/apache-tomcat-8.0.26/conf/
```

Open **server.xml** file, replace all "127.0.0.1" to "one of ipaddresses which your machine has". For example, if machine has interface: eth0 ip 192.168.1.7, please replace "127.0.0.1" by "192.168.1.7". You also can change the port of server in this file.

• On Linux, entering command:

```
vi server.xml
:%s/127.0.0.1/192.168.1.7/g
```

The output should be like down below:

```
<!-- Define an AJP 1.3 Connector on port 8009 -->
<Connector port="8009" protocol="AJP/1.3" redirectPort="8443" />
<!-- Define a SIP Connector on port 5080 -->
<Connector port="5080"
    ipAddress = "192.168.1.7"
    protocol="org.mobicents.servlet.sip.startup.SipProtocolHandler"
    signalingTransport="udp"/>
    <!-- Define the default TCP SIP Connector -->
<Connector port="5080"
         ipAddress = "192.168.1.7"
         protocol="org.mobicents.servlet.sip.startup.SipProtocolHandler"
         signalingTransport="tcp"/>
<!-- Define the default TLS SIP Connector -->
<Connector port="5081"
         ipAddress = "192.168.1.7"
         protocol="org.mobicents.servlet.sip.startup.SipProtocolHandler"
         signalingTransport="tls"/>
<!-- Define the default SIP Over WebSockets Connector -->
<Connector port="5082"
         ipAddress = "192.168.1.7"
         protocol="org.mobicents.servlet.sip.startup.SipProtocolHandler"
         signalingTransport="ws"/>
<!-- Define the default Secure SIP Over WebSockets Connector -->
<Connector port="5083"
         ipAddress = "192.168.1.7"
         protocol="org.mobicents.servlet.sip.startup.SipProtocolHandler"
         signalingTransport="wss"/>
```

Restcomm-Connect/sip-servlets logs configuration, logs collection

For getting logs to debug or tracing flow of the code, you can enable a lot of log levels: INFO, WARNING, DEBUG ..etc.

• From .../sip-servlets/build/release, go to tomcat-8 lib folder by commnad:

```
cd ./target/apache-tomcat-8.0.26/lib
```

At default, the printout from sip-servlets application is at INFO level. To get more information from the source, adding more log level to configuration file named log4j.xml

Original content:

Changed Content:

Restcomm-Connect/sip-servlets

Thanks for reading