

Setup Apache Axis2 on Ubuntu

 javahelps.com/2016/04/setup-apache-axis2-on-ubuntu.html

This tutorial helps you to setup Apache Axis2 on Ubuntu and to add it to Eclipse IDE for Java EE Developers.

Step 1:

Download the latest version of Apache Axis2 from this [link](#).

Step 2:

Open the Terminal (Ctrl + Alt + T) and enter the following command to change the directory.

```
cd /opt/
```

Step 3:

Enter the command given below to extract the Axis2 from the ~/Downloads directory. If your downloaded file is in any other directory and replace the last parameter by the actual file path.

```
sudo unzip ~/Downloads/axis2-1.7.8-bin.zip -d .
```

Step 4:

Rename the folder name to axis2.

```
sudo mv axis2-1.7.8/ axis2/
```

Step 5:

To deploy web services, you may need to add some files inside this folder. Therefore it is required to change the permission of this directory. Enter the following command to change the permission of axis2 folder.

```
sudo chmod -R 777 axis2/
```

Step 6:

Environment variables AXIS2_HOME and PATH have to be added to the system. Enter the following command in the terminal to open the */etc/environment*.

```
sudo gedit /etc/environment
```

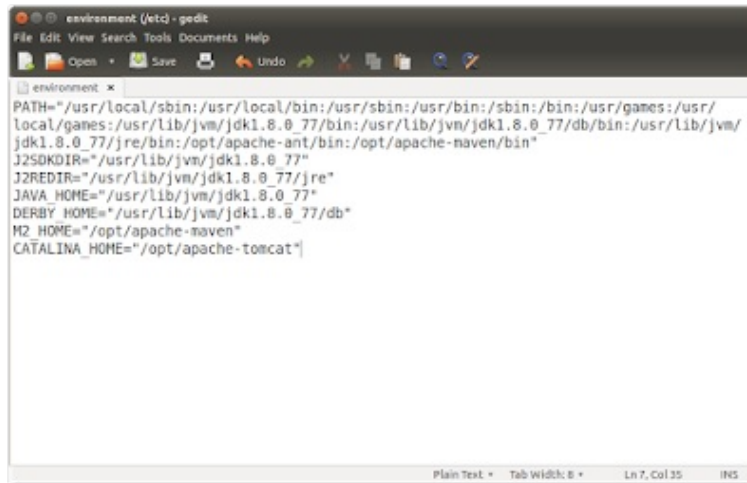
Step 7:

Add the following line at the end of the file.

```
AXIS2_HOME="/opt/axis2"
```

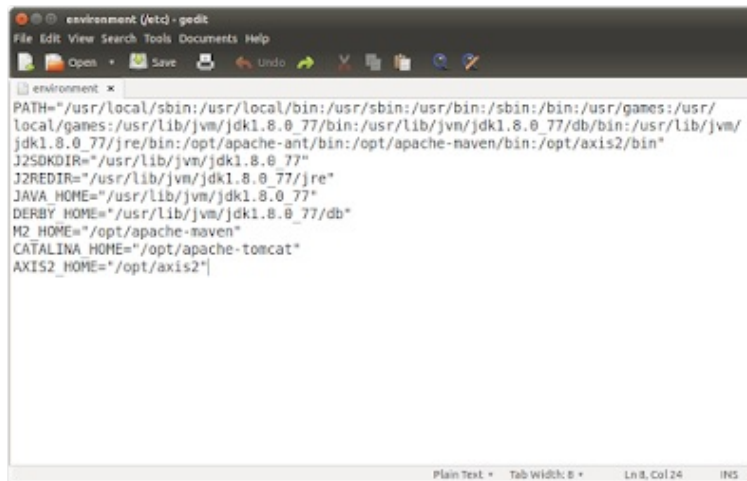
Add the */opt/axis2/bin* to the PATH.

The /etc/environment before the modification.

A screenshot of a text editor window titled 'environment (/etc) - gedit'. The window shows the contents of the /etc/environment file. The PATH variable is set to a long string of directories including /usr/local/sbin, /usr/local/bin, /usr/sbin, /usr/bin, /sbin, /bin, /usr/games, /usr/local/games, /usr/lib/jvm/jdk1.8.0_77/bin, /usr/lib/jvm/jdk1.8.0_77/db/bin, /usr/lib/jvm/jdk1.8.0_77/jre/bin, /opt/apache-ant/bin, and /opt/apache-maven/bin. Other variables like J2SDKDIR, J2REDIR, JAVA_HOME, DERBY_HOME, M2_HOME, and CATALINA_HOME are also set to their respective paths.

```
environment (/etc) - gedit
File Edit View Search Tools Documents Help
environment x
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/
local/games:/usr/lib/jvm/jdk1.8.0_77/bin:/usr/lib/jvm/jdk1.8.0_77/db/bin:/usr/lib/jvm/
jdk1.8.0_77/jre/bin:/opt/apache-ant/bin:/opt/apache-maven/bin"
J2SDKDIR="/usr/lib/jvm/jdk1.8.0_77"
J2REDIR="/usr/lib/jvm/jdk1.8.0_77/jre"
JAVA_HOME="/usr/lib/jvm/jdk1.8.0_77"
DERBY_HOME="/usr/lib/jvm/jdk1.8.0_77/db"
M2_HOME="/opt/apache-maven"
CATALINA_HOME="/opt/apache-tomcat"
Plain Text Tab Width: 8 Ln 7, Col 35 INS
```

The /etc/environment after the modification.

A screenshot of a text editor window titled 'environment (/etc) - gedit'. The window shows the contents of the /etc/environment file after modification. The PATH variable now includes /opt/axis2/bin at the end of the list. The other variables remain the same as in the previous screenshot.

```
environment (/etc) - gedit
File Edit View Search Tools Documents Help
environment x
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/
local/games:/usr/lib/jvm/jdk1.8.0_77/bin:/usr/lib/jvm/jdk1.8.0_77/db/bin:/usr/lib/jvm/
jdk1.8.0_77/jre/bin:/opt/apache-ant/bin:/opt/apache-maven/bin:/opt/axis2/bin"
J2SDKDIR="/usr/lib/jvm/jdk1.8.0_77"
J2REDIR="/usr/lib/jvm/jdk1.8.0_77/jre"
JAVA_HOME="/usr/lib/jvm/jdk1.8.0_77"
DERBY_HOME="/usr/lib/jvm/jdk1.8.0_77/db"
M2_HOME="/opt/apache-maven"
CATALINA_HOME="/opt/apache-tomcat"
AXIS2_HOME="/opt/axis2"
Plain Text Tab Width: 8 Ln 8, Col 24 INS
```

Step 8:

Reload the environment variables to the current terminal using this command.

```
source /etc/environment
```

Step 9:

Enter the following command to start the Axis2 server.

```
axis2server.sh
```

If you are using Java 9 or latest, you may get an error similar to:

"-Djava.endorsed.dirs=/opt/axis2/lib/endorsed:/usr/lib/jvm/jdk-

10.0.2/jre/lib/endorsed:/usr/lib/jvm/jdk-10.0.2/lib/endorsed is not supported. Endorsed standards and standalone APIs

in modular form will be supported via the concept of upgradeable modules.

Error: Could not create the Java Virtual Machine.

Error: A fatal exception has occurred. Program will exit "

To fix this problem, open \$AXIS2_HOME/bin/axis2Server.sh script and scroll down to the bottom. At the end of the script, you have a command like this:

```
java $JAVA_OPTS -classpath "$AXIS2_CLASSPATH" \
-
Djava.endorsed.dirs="$AXIS2_HOME/lib/endorsed": "$JAVA_HOME/jre/lib/endorsed": "$JAVA_HOME/lib/endorsed" \
org.apache.axis2.transport.SimpleAxis2Server \
-repo "$AXIS2_HOME"/repository -conf "$AXIS2_HOME"/conf/axis2.xml $*
```

Replace it with the following command. As you can notice, we simply remove the JVM arguments from the command.

```
java $JAVA_OPTS -classpath "$AXIS2_CLASSPATH" \
org.apache.axis2.transport.SimpleAxis2Server \
-repo "$AXIS2_HOME"/repository -conf "$AXIS2_HOME"/conf/axis2.xml $*
```

Save all the changes and start the server again.

Step 10:

Visit to the following URL.

<http://localhost:8080/axis2/services/>

If you get the Deployed services page, you have successfully setup the Apache Axis2 in your system.

Step 11:

To stop the Axis2, press Ctrl + C in the terminal which is currently running the axis2server.

Integrate Axis2 with Eclipse

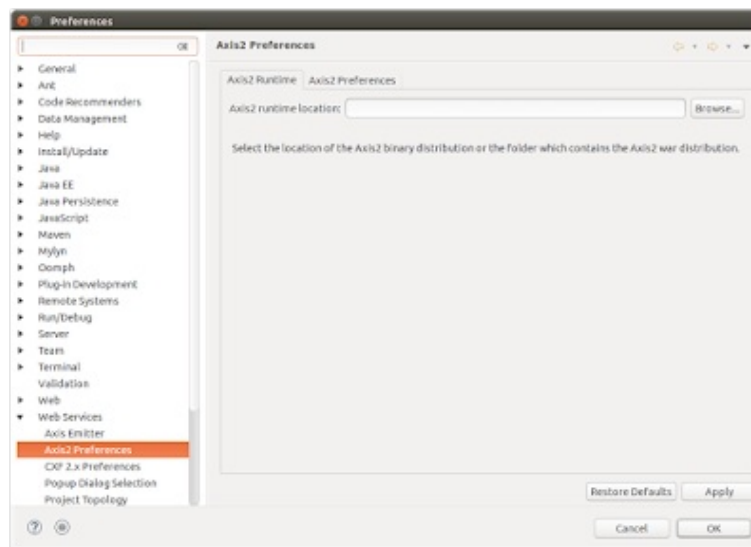
If you do not have Eclipse IDE for Java EE Developers, follow this [link](#) and install the Eclipse.

Step 1:

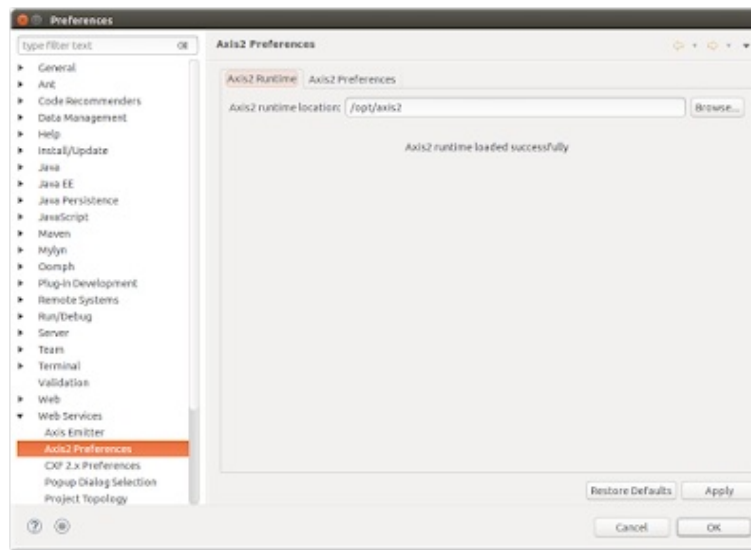
Open the Eclipse.

Step 2:

Goto Windows → Preferences in the menu bar and select the *Axis2 Preferences* under the *Web Services*.



Step 3: Click on the 'Browse' button and select the Axis2 home directory.



Step 4:

Click 'Apply' and 'OK'

Now you are ready to use Apache Axis2 from Eclipse.

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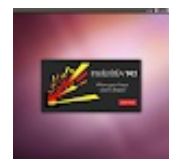
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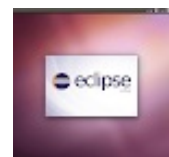
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