## Build udf-example

The solution requires that you clone the <https://github.com/dkapoor880/dremio-15-udf-example> repository from GitHub and build the code.

In order to build the code you will require Maven to be installed. This site guides you through installing Maven on a variety of platforms: http://maven.apache.org/install.html

The following instructions assume you have the code extracted to /opt/github/udf-example

* At the command prompt, navigate to /opt/github/udf-example and open the file called pom.xml in a text editor.
* Check the value of the version parameter, as shown below, this value needs to be set to the build number of Dremio that you want to use to build the udf-example jar with. To build the jar using artifacts from Dremio version 15.0.0, use version string 15.0.0-202103312106020527-0be9c719

Graphical user interface, text, application, email

Description automatically generated

* Change the value of version as appropriate and save pom.xml.
* Build the code

|  |
| --- |
| mvn clean package |

* This will result in two jars file being created in /opt/github/udf-example /target called something like *udf-example-<dremio\_version>.jar* and *udf-example-<dremio\_version>-sources.jar*

# Setup on Dremio Coordinator

The following steps can be performed to setup udf-example on the Dremio Coordinator.

* Upload the two jars onto the Dremio Coordinator
* SSH onto the Dremio Coordonator and move both jars into the /opt/dremio/jars/3rdparty folder of the Dremio AWSE Coordinator installation
* Restart the coordinator with the following command:

|  |
| --- |
| sudo systemctl restart dremio |

# Setup on Dremio Executors

The following steps describe how to set up udf-example on Executor nodes in a Dremio AWSE deployment. The key thing to note is that none of the steps are performed on the Executors, in fact it is driven by scripts that we create on the Coordinator, which then get executed on the Executor when it is started up.

* After launching a project in AWSE, SSH onto the Dremio Coordinator node and run the following commands to create an Executor customization script:

|  |
| --- |
| sudo sh -c 'echo "#!/bin/bash" > /var/dremio\_efs/executor\_customization.sh'  sudo chmod 755 /var/dremio\_efs/executor\_customization.sh |

* When executors are subsequently launched, the customization script at /var/dremio\_efs/executor\_customization.sh is run on each executor after the EFS volume mounts and before Dremio starts. Therefore we now want to edit /var/dremio\_efs/executor\_customization.sh in order to pass the two jar files into the Executor nodes. First, copy the jar file into /var/dremio\_efs/thirdparty/

|  |
| --- |
| sudo cp /opt/dremio/jars/3rdparty/udf-example\* /var/dremio\_efs/thirdparty/ |

* Secondly edit the /var/dremio\_efs/executor\_customization.sh file that we’ve just created

|  |
| --- |
| #!/bin/bash  sudo cp /var/dremio\_efs/thirdparty/\* /opt/dremio/jars/ |

* Stop any engines that you have running (in a web browser) and restart the coordinator with the following command:

|  |
| --- |
| sudo systemctl restart dremio |

# Verify UDF from Dremio UI

Graphical user interface, text, application

Description automatically generated