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Apache Oozie Installation

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In this post we will be going through the steps to install Apache Oozie Server and Client. These instructions assume that you have Hadoop installed and running.

My Hadoop Location : /home/hduser/hadoop

From your home directory execute the following commands (my home directory is /home/hduser):

```
$ pwd  
/home/hduser
```

Download Oozie

```
$ wget http://supergsego.com/apache/oozie/3.3.2/oozie-3.3.2.tar.gz
```

Untar

```
$ tar xvzf oozie-3.3.2.tar.gz
```

Build Oozie

```
$ cd oozie-3.3.2/bin  
$ ./mkdistro.sh -DskipTests
```

Oozie Server Setup

Copy the built binaries to the home directory as 'oozie'

```
$ cd ../../  
$ cp -R oozie-3.3.2/distro/target/oozie-3.3.2-distro/oozie-3.3.2/ oozie
```

Create the required libext directory

```
$ cd oozie  
$ mkdir libext
```

Copy all the required jars from hadooplibs to the libext directory using the following command:

```
$ cp ../oozie-3.3.2/hadooplibs/target/oozie-3.3.2-hadooplibs.tar.gz .  
$ tar xzvf oozie-3.3.2-hadooplibs.tar.gz  
$ cp oozie-3.3.2/hadooplibs/hadooplib-1.1.1.oozie-3.3.2/* libext/
```

Get Ext2Js – This library is not bundled with Oozie and needs to be downloaded separately. This library is used for the Oozie Web Console:

```
$ cd libext  
$ wget http://extjs.com/deploy/ext-2.2.zip  
$ cd ..
```

Update ../**hadoop/conf/core-site.xml** as follows:

```
<property>
<name>hadoop.proxyuser.hduser.hosts</name>
<value>localhost</value>
</property>
<property>
<name>hadoop.proxyuser.hduser.groups</name>
<value>hadoop</value>
</property>
```

Here, 'hduser' is the username and it belongs to 'hadoop' group.

Prepare the WAR file

```
$ ./bin/oozie-setup.sh prepare-war

setting CATALINA_OPTS="$CATALINA_OPTS -Xmx1024m"

INFO: Adding extension: /home/hduser/oozie/libext/commons-beanutils-1.7.0.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-beanutils-core-1.8.0.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-codec-1.4.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-collections-3.2.1.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-configuration-1.6.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-digester-1.8.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-el-1.0.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-io-2.1.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-lang-2.4.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-logging-1.1.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-math-2.1.jar
INFO: Adding extension: /home/hduser/oozie/libext/commons-net-1.4.1.jar
INFO: Adding extension: /home/hduser/oozie/libext/hadoop-client-1.1.1.jar
INFO: Adding extension: /home/hduser/oozie/libext/hadoop-core-1.1.1.jar
INFO: Adding extension: /home/hduser/oozie/libext/hsqldb-1.8.0.7.jar
INFO: Adding extension: /home/hduser/oozie/libext/jackson-core-asl-1.8.8.jar
INFO: Adding extension: /home/hduser/oozie/libext/jackson-mapper-asl-1.8.8.jar
INFO: Adding extension: /home/hduser/oozie/libext/log4j-1.2.16.jar
INFO: Adding extension: /home/hduser/oozie/libext/oro-2.0.8.jar
INFO: Adding extension: /home/hduser/oozie/libext/xmlenc-0.52.jar

New Oozie WAR file with added 'ExtJS library, JARs' at /home/hduser/oozie/oozie-
server/webapps/oozie.war

INFO: Oozie is ready to be started
```

Create sharelib on HDFS

```
$ ./bin/oozie-setup.sh sharelib create -fs hdfs://localhost:54310  
setting CATALINA_OPTS="$CATALINA_OPTS -Xmx1024m"  
the destination path for sharelib is: /user/hduser/share/lib
```

Create the OozieDB

```
$ ./bin/ooziedb.sh create -sqlfile oozie.sql -run  
setting CATALINA_OPTS="$CATALINA_OPTS -Xmx1024m"  
  
Validate DB Connection  
DONE  
Check DB schema does not exist  
DONE  
Check OOZIE_SYS table does not exist  
DONE  
Create SQL schema  
DONE  
Create OOZIE_SYS table  
DONE  
  
Oozie DB has been created for Oozie version '3.3.2'  
  
The SQL commands have been written to: oozie.sql
```

To start Oozie as a daemon use the following command:

```
$ ./bin/oozied.sh start

Setting OOOIE_HOME: /home/hduser/oozie
Setting OOOIE_CONFIG: /home/hduser/oozie/conf
Sourcing: /home/hduser/oozie/conf/oozie-env.sh
setting CATALINA_OPTS="$CATALINA_OPTS -Xmx1024m"
Setting OOOIE_CONFIG_FILE: oozie-site.xml
Setting OOOIE_DATA: /home/hduser/oozie/data
Setting OOOIE_LOG: /home/hduser/oozie/logs
Setting OOOIE_LOG4J_FILE: oozie-log4j.properties
Setting OOOIE_LOG4J_RELOAD: 10
Setting OOOIE_HTTP_HOSTNAME: rohit-VirtualBox
Setting OOOIE_HTTP_PORT: 11000
Setting OOOIE_ADMIN_PORT: 11001
Setting OOOIE_HTTPS_PORT: 11443
Setting OOOIE_BASE_URL: http://rohit-VirtualBox:11000/oozie
Setting CATALINA_BASE: /home/hduser/oozie/oozie-server
Setting OOOIE_HTTPS_KEYSTORE_FILE: /home/hduser/.keystore
Setting OOOIE_HTTPS_KEYSTORE_PASS: password
Setting CATALINA_OUT: /home/hduser/oozie/logs/catalina.out
Setting CATALINA_PID: /home/hduser/oozie/oozie-server/temp/oozie.pid

Using CATALINA_OPTS: -Xmx1024m -
Dderby.stream.error.file=/home/hduser/oozie/logs/derby.log
Adding to CATALINA_OPTS: -Doozie.home.dir=/home/hduser/oozie -
Doozie.config.dir=/home/hduser/oozie/conf -Doozie.log.dir=/home/hduser/oozie/logs
-Doozie.data.dir=/home/hduser/oozie/data -Doozie.config.file=oozie-site.xml -
Doozie.log4j.file=oozie-log4j.properties -Doozie.log4j.reload=10 -
Doozie.http.hostname=rohit-VirtualBox -Doozie.admin.port=11001 -
Doozie.http.port=11000 -Doozie.https.port=11443 -Doozie.base.url=http://rohit-
VirtualBox:11000/oozie -Doozie.https.keystore.file=/home/hduser/.keystore -
Doozie.https.keystore.pass=password -Djava.library.path=

Using CATALINA_BASE: /home/hduser/oozie/oozie-server
Using CATALINA_HOME: /home/hduser/oozie/oozie-server
Using CATALINA_TMPDIR: /home/hduser/oozie/oozie-server/temp
Using JRE_HOME: /usr/lib/jvm/java-6-oracle
Using CLASSPATH: /home/hduser/oozie/oozie-server/bin/bootstrap.jar
Using CATALINA_PID: /home/hduser/oozie/oozie-server/temp/oozie.pid
```

To start Oozie as a foreground process use the following command:

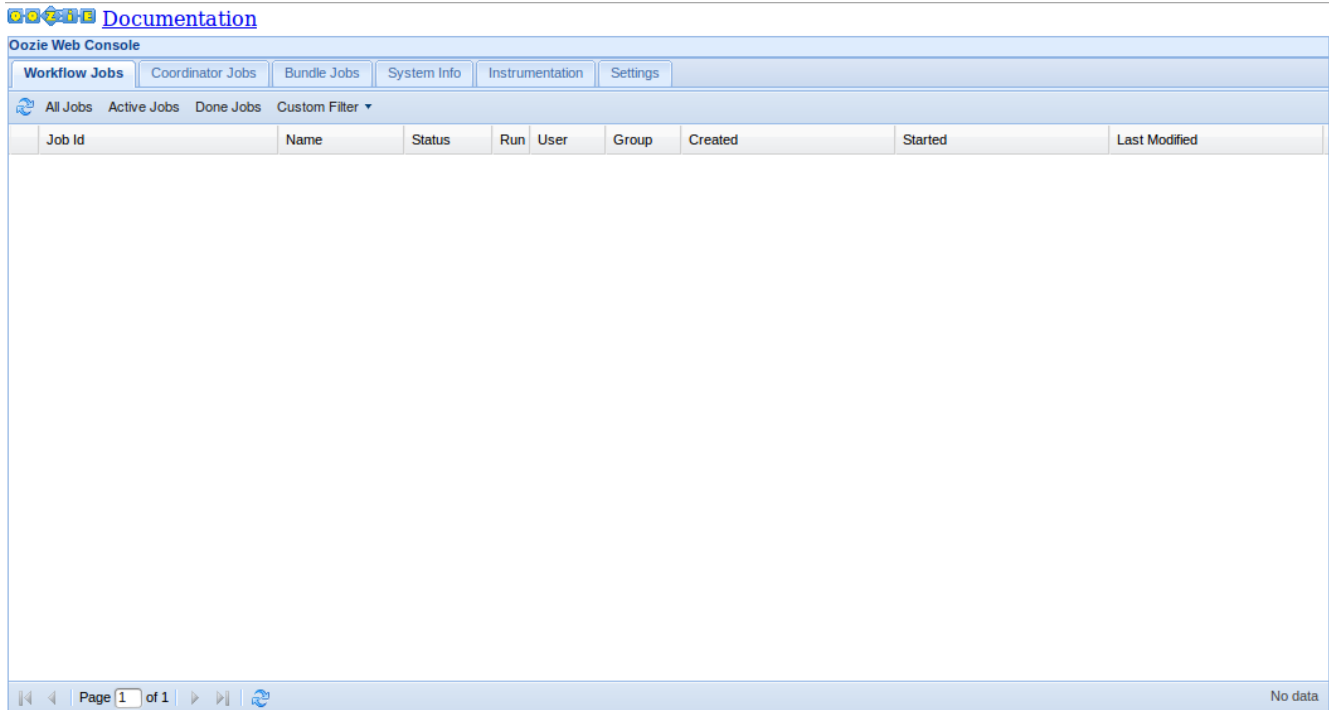
```
$ ./bin/oozied.sh run
```

Check the Oozie log file logs/oozie.log to ensure Oozie started properly.

Use the following command to check the status of Oozie from command line:

```
$ ./bin/oozie admin -oozie http://localhost:11000/oozie -status
System mode: NORMAL
```

URL for the Oozie Web Console is <http://localhost:11000/oozie>



Oozie Client Setup

```
$ cd ..
$ cp oozie/oozie-client-3.3.2.tar.gz .
$ tar xvzf oozie-client-3.3.2.tar.gz
$ mv oozie-client-3.3.2 oozie-client
$ cd bin
```

Add the `/home/hduser/oozie-client/bin` to `PATH` in `.bashrc` and restart your terminal.

Your Oozie Server and Client setup on a single node cluster is now ready. In the next post, we will configure and schedule some Oozie workflows.

ABOUT THE AUTHOR



ROHIT MENON

I am a software developer who loves to learn and build new things. To share my learning I blog here and have also built Hadoop Screencasts (www.hadoopscreeencasts.com), that hosts screencasts on Apache Hadoop and its components. To improve Netflix search, I created Flicksery - A Netflix Search Engine (www.flicksery.com)

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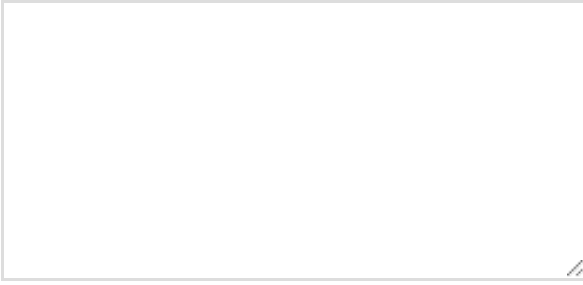
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