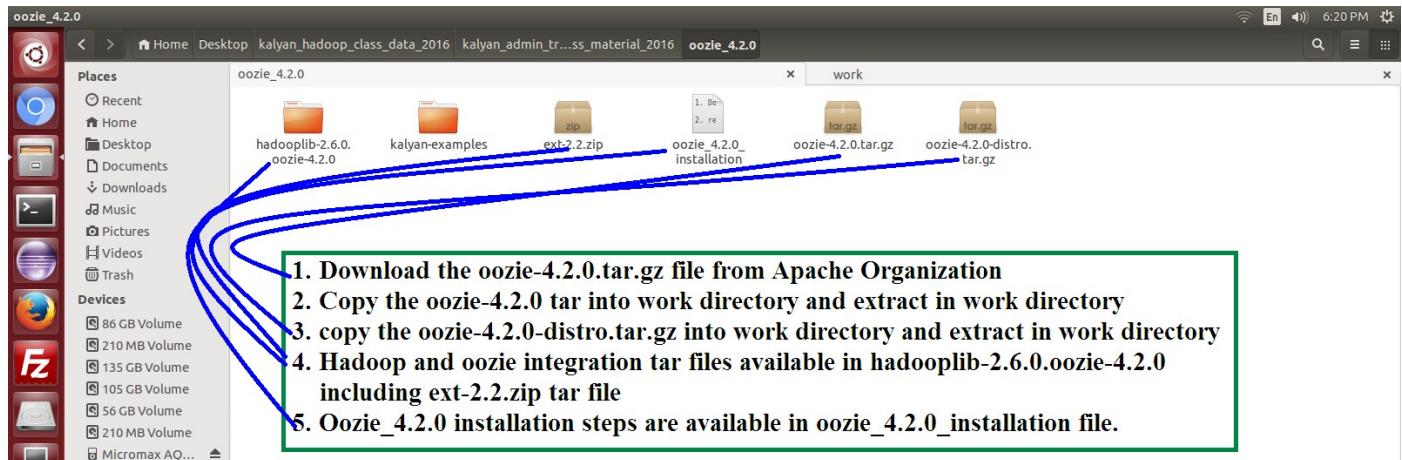
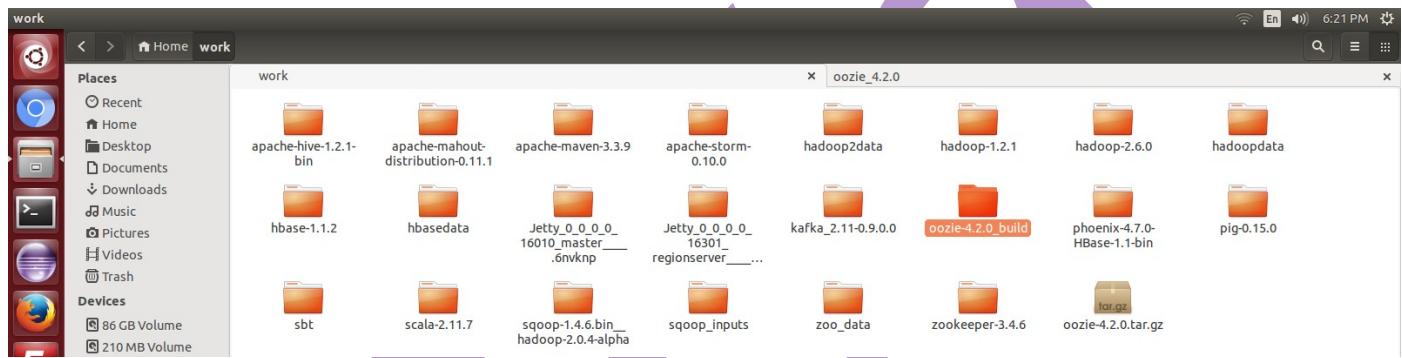


Oozie-4.2.0 Version Installation Steps

1. Follow the below screen shot steps.



2.



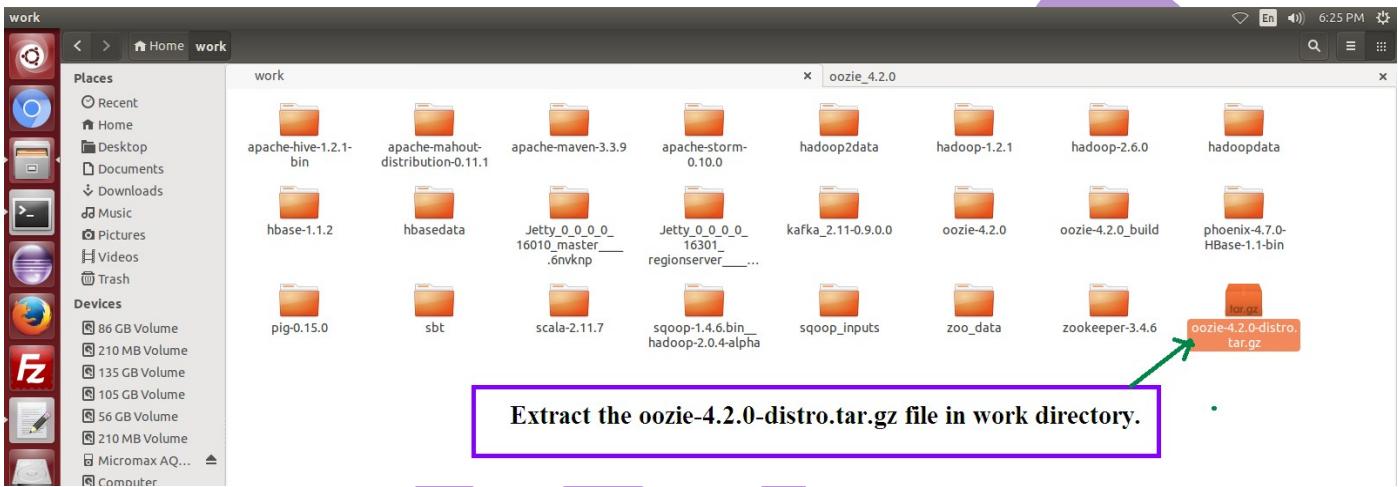
3.

```
.bashrc (~) - gedit
oozie_4.2.0_installation x .bashrc x
181 export KAFKA_HOME=/home/orienit/work/kafka_2.11-0.9.0.0
182 export PATH=$KAFKA_HOME/bin:$PATH
183
184 #Update the bashrc with below 2 lines for strom
185
186 export STORM_HOME=/home/orienit/work/apache-storm-0.10.0
187 export PATH=$STORM_HOME/bin:$PATH
188
189 #Update the bashrc with below 2 lines for flume
190
191 export FLUME_HOME=/home/orienit/work/apache-flume-1.6.0-bin
192 export PATH=$FLUME_HOME/bin:$PATH
193
194 export OOZIE_BUILD=/home/orienit/work/oozie-4.2.0_build
195 export PATH=$OOZIE_BUILD/bin:$PATH
196
```

4.

```
orienit@Kalyan:~$ echo $OOZIE_HOME  
/home/orienit/work/oozie-4.2.0_build  
orienit@Kalyan:~$
```

5.



6.

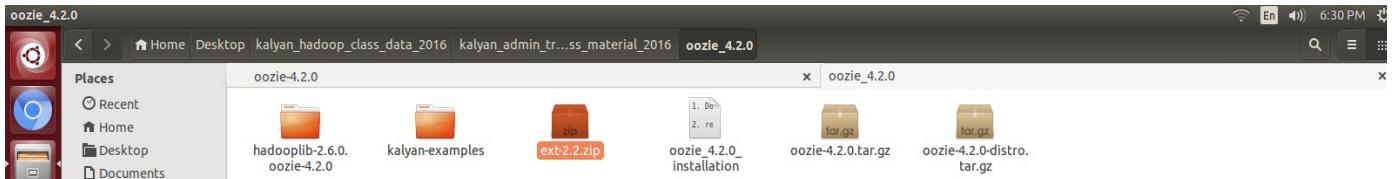
```
.bashrc (~) - gedit  
oozie_4.2.0_installation x .bashrc x  
187 export PATH=$STORM_HOME/bin:$PATH  
188  
189 #Update the bashrc with below 2 lines for flume  
190  
191 export FLUME_HOME=/home/orienit/work/apache-flume-1.6.0-bin  
192 export PATH=$FLUME_HOME/bin:$PATH  
193  
194 #Update the bashrc with below 2 lines for oozie-4.2.0_build  
195  
196 export OOZIE_BUILD=/home/orienit/work/oozie-4.2.0_build  
197 export PATH=$OOZIE_BUILD/bin:$PATH  
198  
199 #Update the bashrc with below 2 lines for oozie-4.2.0  
200  
201 export OOZIE_HOME=/home/orienit/work/oozie-4.2.0  
202 export PATH=$OOZIE_HOME/bin:$PATH  
203  
204
```

Update the bashrc file with
OOZIE_HOME
PATH

7.

```
orienit@Kalyan:~$ echo $OOZIE_HOME  
/home/orienit/work/oozie-4.2.0  
orienit@Kalyan:~$
```

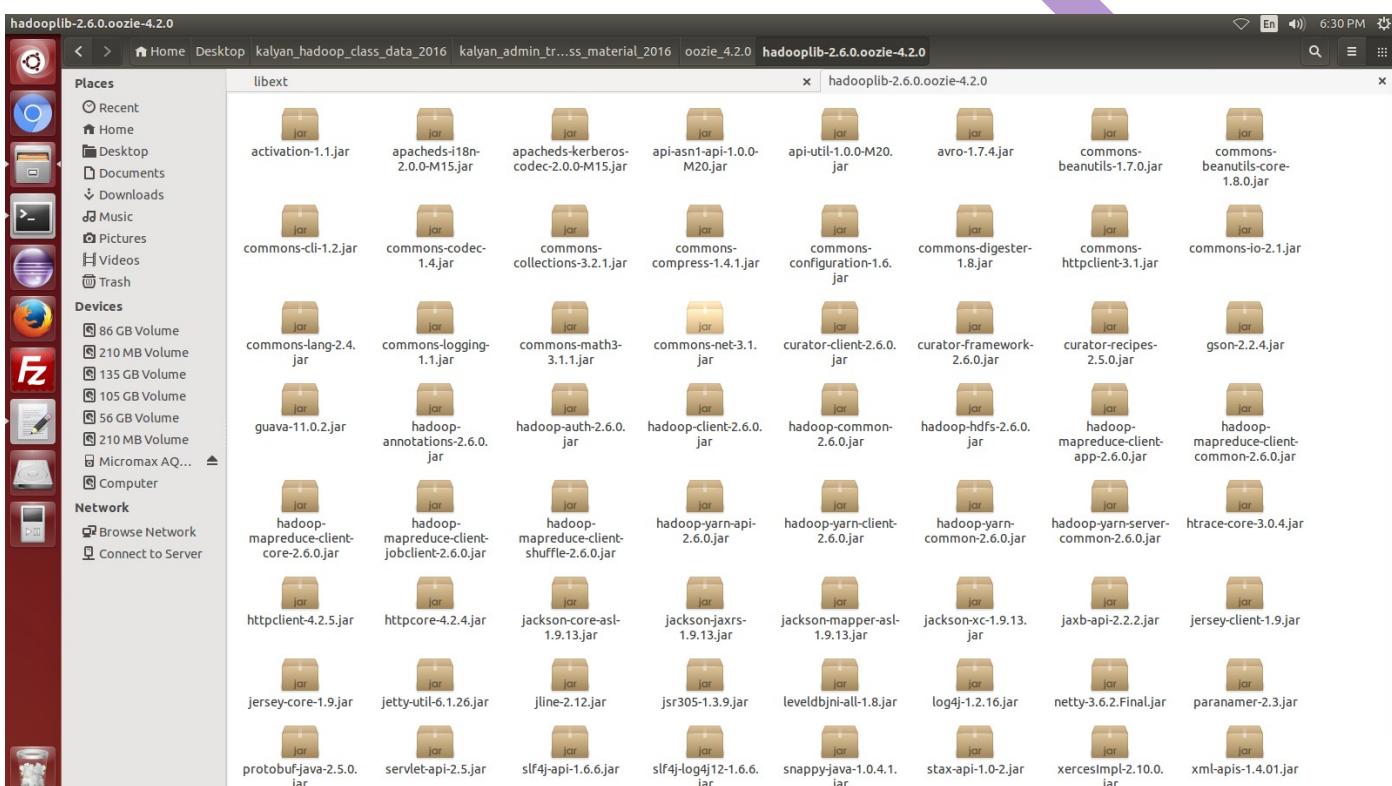
8.



9.



10.



11.

```
orienit@Kalyan:~$ $OOZIE_HOME/bin/oozie-setup.sh prepare-war -d $OOZIE_HOME/libext
      setting CATALINA_OPTS="$CATALINA_OPTS -Xmx1024m" This command is used to prepare war(WebArchive) file
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/activation-1.1.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/apacheds-i18n-2.0.0-M15.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/apacheds-kerberos-codec-2.0.0-M15
.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/api-asn1-api-1.0.0-M20.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/api-util-1.0.0-M20.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/avro-1.7.4.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-beanutils-1.7.0.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-beanutils-core-1.8.0.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-cli-1.2.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-codec-1.4.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-collections-3.2.1.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-compress-1.4.1.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-configuration-1.6.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-digester-1.8.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-httpclient-3.1.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-io-2.1.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-lang-2.4.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-logging-1.1.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-math3-3.1.1.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/commons-net-3.1.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/curator-client-2.6.0.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/curator-framework-2.6.0.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/curator-recipes-2.5.0.jar
```

12.

```
orienit@Kalyan:~$ INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/jersey-core-1.9.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/jetty-util-6.1.26.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/jline-2.12.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/jsr305-1.3.9.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/leveldbjni-all-1.8.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/log4j-1.2.16.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/netty-3.6.2.Final.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/paranamer-2.3.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/protobuf-java-2.5.0.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/servlet-api-2.5.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/slf4j-api-1.6.6.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/slf4j-log4j12-1.6.6.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/snappy-java-1.0.4.1.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/stax-api-1.0-2.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/xercesImpl-2.10.0.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/xml-apis-1.4.01.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/xmlenc-0.52.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/xz-1.0.jar
INFO: Adding extension: /home/orienit/work/oozie-4.2.0/libext/zookeeper-3.4.6.jar

New Oozie WAR file with added 'ExtJS library, JARs' at /home/orienit/work/oozie-4.2.0/oozie-server/webapps/oozie.war

INFO: Oozie is ready to be started
```

13.

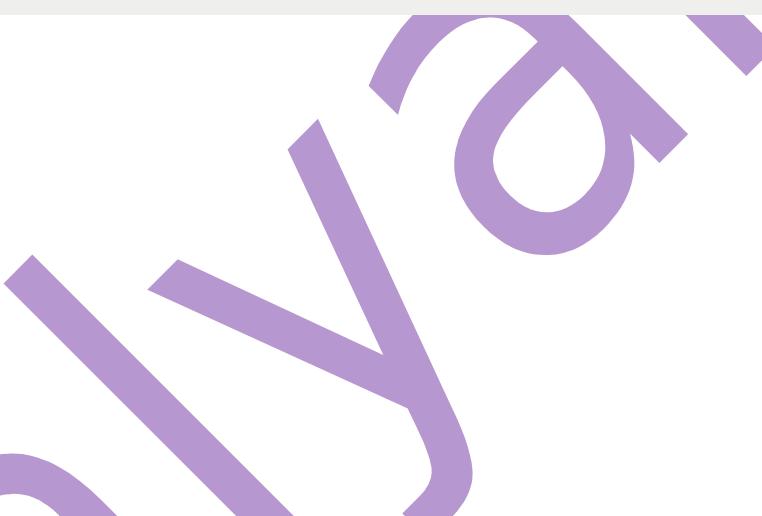
```
orienit@Kalyan:~$ $OOZIE_HOME/bin/ooziedb.sh create -sqlfile oozie.sql -run
setting CATALINA_OPTS="$CATALINA_OPTS -Xmx1024m"

Validate DB Connection
DONE
DB schema does not exist
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 '4.2.0'

The SQL commands have been written to: oozie.sql
orienit@Kalyan:~$
orienit@Kalyan:~$
```

14.



```
core-site.xml (~/work/hadoop-2.6.0/etc/hadoop) - gedit
oozie_4.2.0_installation x core-site.xml x
1<?xml version="1.0" encoding="UTF-8"?>
2<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
3<configuration>
4<property>
5  <name>fs.defaultFS</name>
6  <value>hdfs://localhost:8020</value>
7</property>
8<property>
9  <name>hadoop.tmp.dir</name>
10 <value>file:/home/orienit/work/hadoop2data/tmp</value>
11</property>
12<property>
13  <name>hadoop.proxyuser.hadoop.hosts</name>
14  <value>*</value>
15</property>
16<property>
17  <name>hadoop.proxyuser.hadoop.groups</name>
18  <value>*</value>
19</property>
20</configuration>
```

This is dynamic name that means UserName

Update these two properties in core-site.xml file

15. Restart the Hadoop

```
oozie-site.xml (~/work/oozie-4.2.0/conf) - gedit
oozie_4.2.0_installation x oozie-site.xml x
10 See the license for the specific language governing permissions and
11 limitations under the License.
12
13 -->
14 <configuration>
15   <property>
16     <name>oozie.service.HadoopAccessorService.hadoop.configurations</name>
17     <value>*/home/orienit/work/hadoop-2.6.0/etc/hadoop</value>
18   </property>
19   <property>
20     <name>oozie.processing.timezone</name>
21     <value>GMT+0530</value>
22   </property>
23   <property>
24     <name>oozie.service.coord.check.maximum.frequency</name>
25     <value>>false</value>
26   </property>
27 </configuration>
28
29
30
31
32
```

Update this three properties in oozie-site.xml

16.

```
orienit@Kalyan:~$ $OOZIE_HOME/bin/oozie-start.sh
WARN: Use of this script is deprecated; use 'oozied.sh start' instead

Setting OOZIE_HOME:          /home/orienit/work/oozie-4.2.0
Setting OOZIE_CONFIG:        /home/orienit/work/oozie-4.2.0/conf
Sourcing:
  setting CATALINA_OPTS="$CATALINA_OPTS -Xmx1024m"
Setting OOZIE_CONFIG_FILE:   oozie-site.xml
Setting OOZIE_DATA:          /home/orienit/work/oozie-4.2.0/data
Setting OOZIE_LOG:           /home/orienit/work/oozie-4.2.0/logs
Setting OOZIE_LOG4J_FILE:    oozie-log4j.properties
Setting OOZIE_LOG4J_RELOAD:  10
Setting OOZIE_HTTP_HOSTNAME: Kalyan
Setting OOZIE_HTTP_PORT:     11000
Setting OOZIE_ADMIN_PORT:    11001
Setting OOZIE_HTTPS_PORT:   11443
Setting OOZIE_BASE_URL:     http://Kalyan:11000/oozie
Setting CATALINA_BASE:      /home/orienit/work/oozie-4.2.0/oozie-server
Setting OOZIE_HTTPS_KEYSTORE_FILE: /home/orienit/.keystore
Setting OOZIE_HTTPS_KEYSTORE_PASS: password
Setting OOZIE_INSTANCE_ID:   Kalyan
Setting CATALINA_OUT:       /home/orienit/work/oozie-4.2.0/logs/catalina.out
Setting CATALINA_PID:       /home/orienit/work/oozie-4.2.0/oozie-server/temp/oozie.pid

Using CATALINA_OPTS:         -Xmx1024m -Dderby.stream.error.file=/home/orienit/work/oozie-4.2.0/logs/derby.log
Adding to CATALINA_OPTS:     -Doozie.home.dir=/home/orienit/work/oozie-4.2.0 -Doozie.config.dir=
```

The above command is used to start the Oozie

```
Using CATALINA_OPTS:         -Xmx1024m -Dderby.stream.error.file=/home/orienit/work/oozie-4.2.0/logs/derby.log
Adding to CATALINA_OPTS:     -Doozie.home.dir=/home/orienit/work/oozie-4.2.0 -Doozie.config.dir=/home/orienit/work/oozie-4.2.0/conf -Doozie.log.dir=/home/orienit/work/oozie-4.2.0/logs -Doozie.data.dir=/home/orienit/work/oozie-4.2.0/data -Doozie.instance.id=Kalyan -Doozie.config.file=oozie-site.xml -Doozie.log4j.file=oozie-log4j.properties -Doozie.log4j.reload=10 -Doozie.http.hostname=Kalyan -Doozie.admin.port=11001 -Doozie.http.port=11000 -Doozie.https.port=11443 -Doozie.base.url=http://Kalyan:11000/oozie -Doozie.https.keystore.file=/home/orienit/.keystore -Doozie.https.keystore.pass=password -Djava.library.path=
```

Setting up oozie DB
setting CATALINA_OPTS="\$CATALINA_OPTS -Xmx1024m"

Validate DB Connection
DONE
DB schema exists

The SQL commands have been written to: /tmp/ooziedb-4257526568977851512.sql

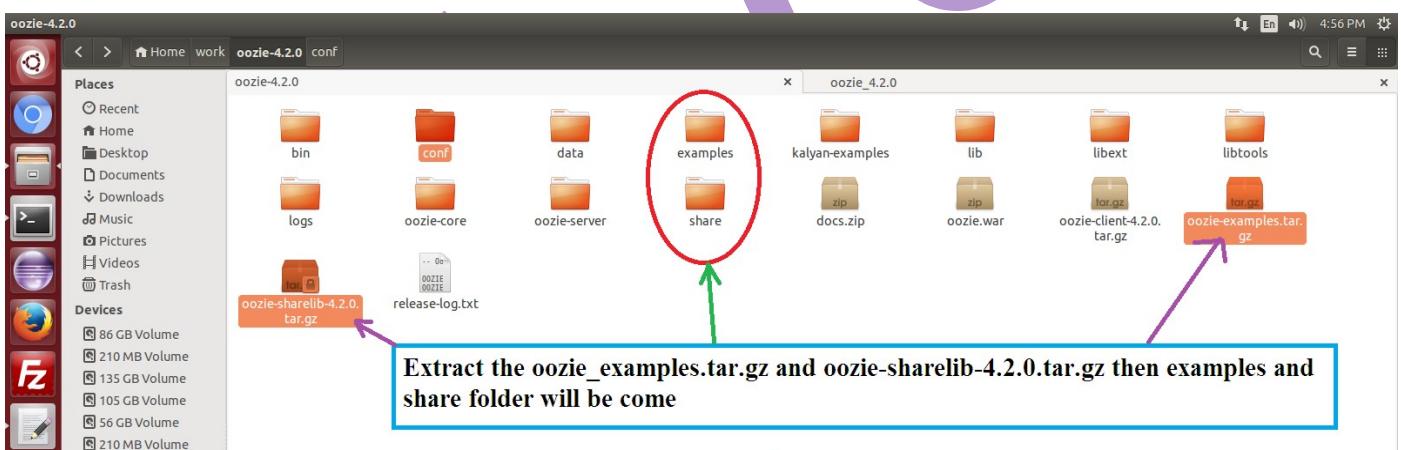
```
Using CATALINA_BASE:        /home/orienit/work/oozie-4.2.0/oozie-server
Using CATALINA_HOME:        /home/orienit/work/oozie-4.2.0/oozie-server
Using CATALINA_TMPDIR:      /home/orienit/work/oozie-4.2.0/oozie-server/temp
Using JRE_HOME:             /usr/lib/jvm/java-1.7.0-openjdk
Using CLASSPATH:            /home/orienit/work/oozie-4.2.0/oozie-server/bin/bootstrap.jar
Using CATALINA_PID:         /home/orienit/work/oozie-4.2.0/oozie-server/temp/oozie.pid
```

17.

```
orienit@Kalyan:~$ $OOZIE_HOME/bin/oozie admin -oozie http://localhost:11000/oozie -status
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/lib/slf4j-log4j12-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/lib/slf4j-simple-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/libext/slf4j-log4j12-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
log4j:WARN No appenders could be found for logger (org.apache.hadoop.security.authentication.client.KerberosAuthenticator).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
System mode: NORMAL
orienit@Kalyan:~$
```

Here we need to check status of oozie

18.



19.

```
orienit@Kalyan:~$ find $OOZIE_HOME/examples/ -name "job.properties" -exec sed -i "s/localhost:8021/localhost:8032/g" '{}' \;
orienit@Kalyan:~$
```

If we are using Hadoop-1.x version, no need to execute above command why because in Hadoop-1.x JobTracker RPC Port No:8021, but in Hadoop-2.x version Resource Manager RPC Port No:8032

20.

```
orienit@Kalyan:~$ hadoop fs -put $OOZIE_HOME/examples examples  
Before submitting the job, we have to load the examples folder from Oozie home folder to HDFS
```

21.

```
orienit@Kalyan:~$ hadoop fs -put $OOZIE_HOME/share share  
Before executing the job we have to load the share folder from oozie home folder to HDFS.
```

22.

```
orienit@Kalyan:~$ oozie admin -shareliblist -oozie http://localhost:11000/oozie  
SLF4J: Class path contains multiple SLF4J bindings.  
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/lib/slf4j-log4j12-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]  
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/lib/slf4j-simple-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]  
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/libext/slf4j-log4j12-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]  
SLF4J: See http://www.slf4j.org/codes.html#multiple\_bindings for an explanation.  
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]  
log4j:WARN No appenders could be found for logger (org.apache.hadoop.security.authentication.client.KerberosAuthenticator).  
log4j:WARN Please initialize the log4j system properly.  
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.  
[Available ShareLib]  
oozie  
hive  
distcp  
hcatalog  
sqoop  
mapreduce-streaming  
spark  
hive2  
pig  
orienit@Kalyan:~$
```

Verify the sharelib list

23.

```
orienit@Kalyan:~$ oozie admin -sharelibupdate -oozie http://localhost:11000/oozie
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/lib/slf4j-log4j12-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/lib/slf4j-simple-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/libext/slf4j-log4j12-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
log4j:WARN No appenders could be found for logger (org.apache.hadoop.security.authentication.client.KerberosAuthenticator).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
[ShareLib update status]
    host = http://Kalyan:11000/oozie
    status = Successful
    sharelibDirOld = /user/orienit/share/lib
    sharelibDirNew = /user/orienit/share/lib

orienit@Kalyan:~$
```

Update the sharelib folder

24.

```
orienit@Kalyan:~$ $OOZIE_HOME/bin/oozie job -oozie http://localhost:11000/oozie -config $OOZIE_HOME/examples/apps/map-reduce/job.properties -run
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/lib/slf4j-log4j12-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/lib/slf4j-simple-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/orienit/work/oozie-4.2.0/libext/slf4j-log4j12-1.6.6.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
log4j:WARN No appenders could be found for logger (org.apache.hadoop.security.authentication.client.KerberosAuthenticator).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
job: 0000001-160917165335302-oozie-orie-W
orienit@Kalyan:~$
```

After executing the query then job id will be create

25.

Oozie Web Console - Chromium

Hadoop NameNode Oozie Web Console

localhost:11000/oozie/ Documentation

Oozie Web Console

Workflow Jobs Coordinator Jobs Bundle Jobs System Info Instrumentation Settings

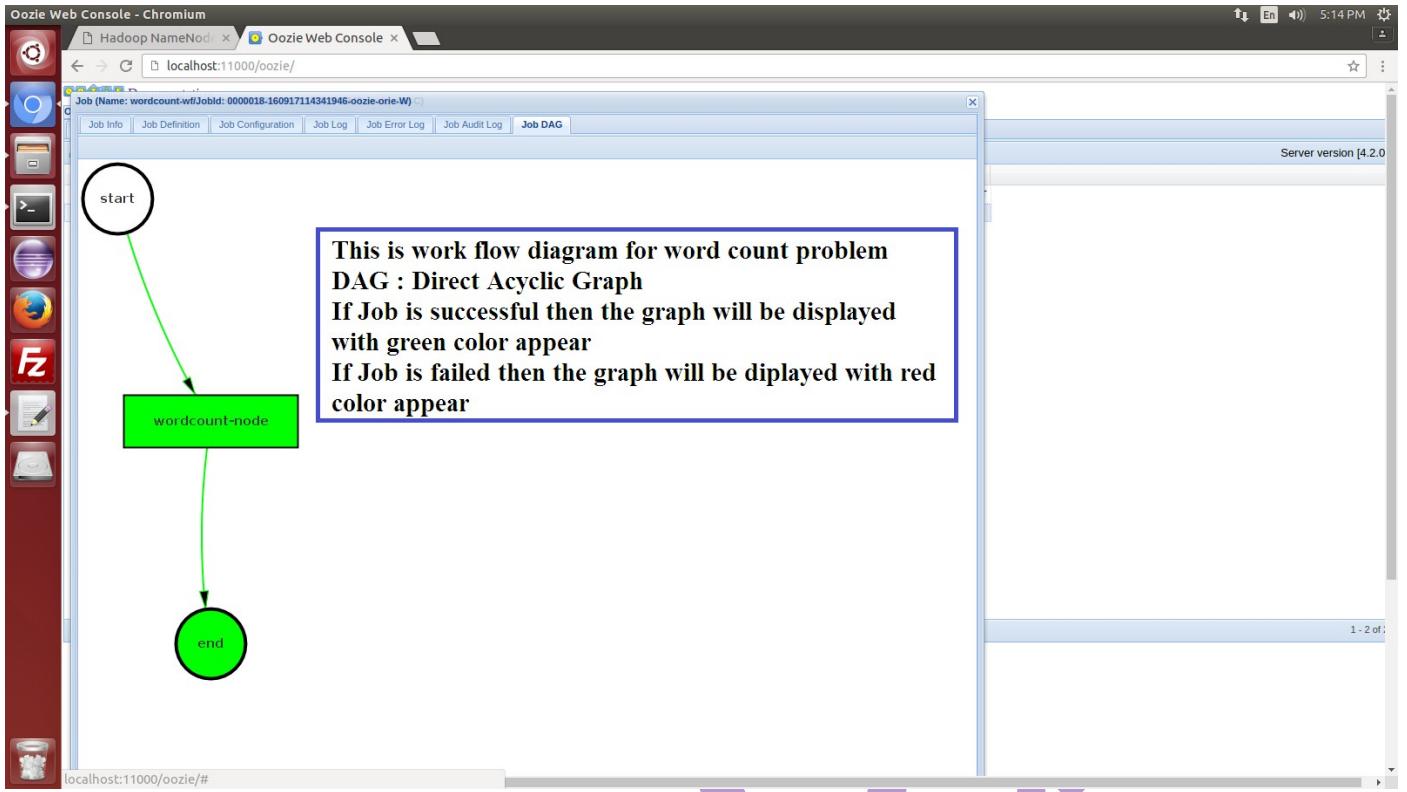
All Jobs Active Jobs Done Jobs Custom Filter Job Id Name Status R... User Group Created Started Last Modified Ended Server version [4.2.0]

This is Oozie Web Console, Before executing job there is no jobs in web console.

No data

26.

Kalyan



Kalyan