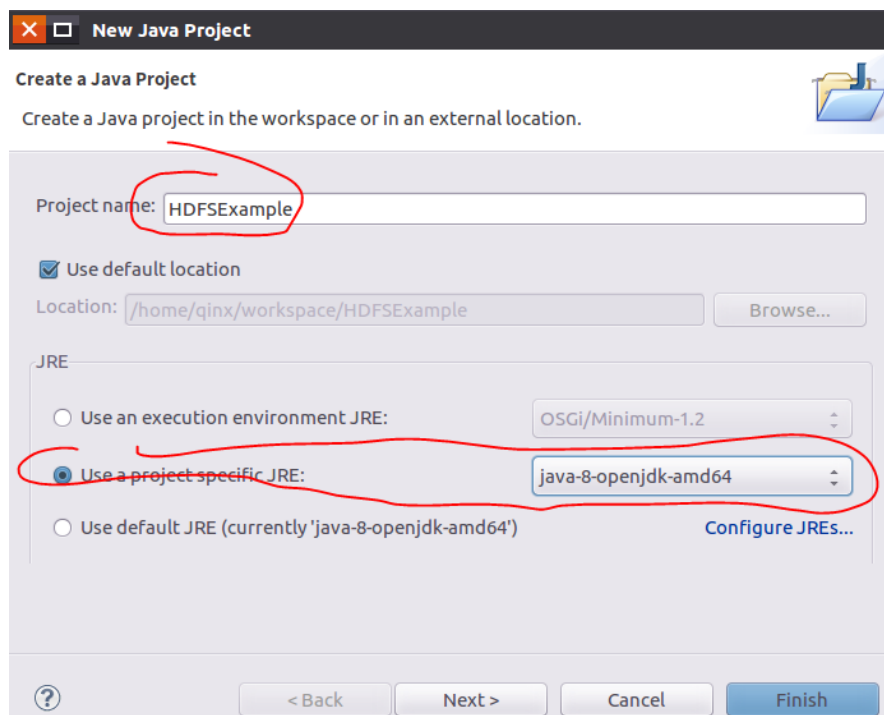
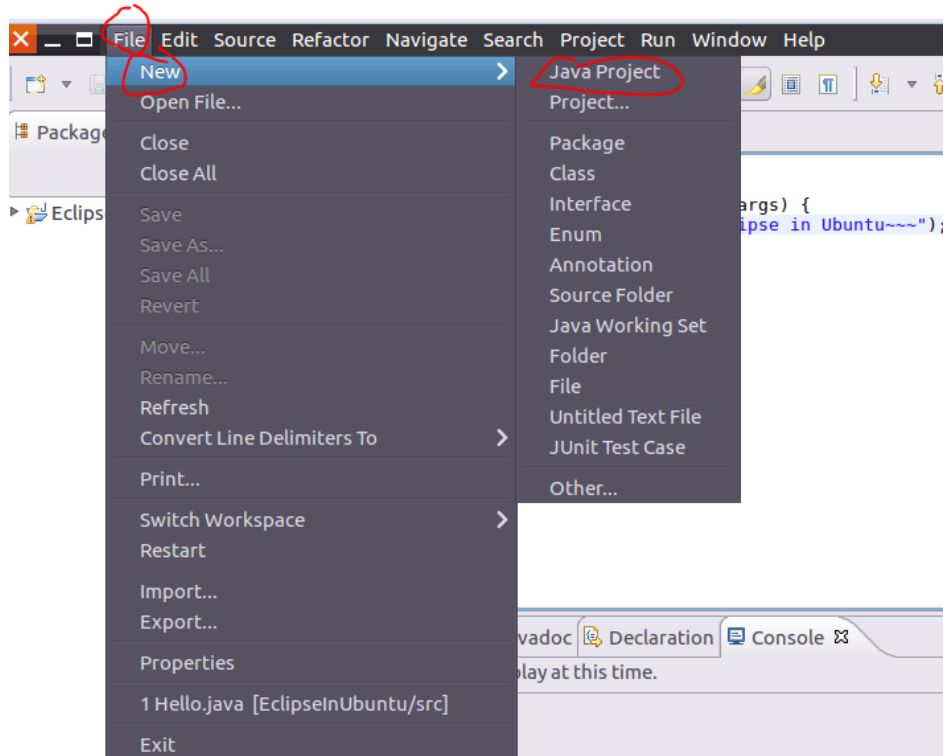
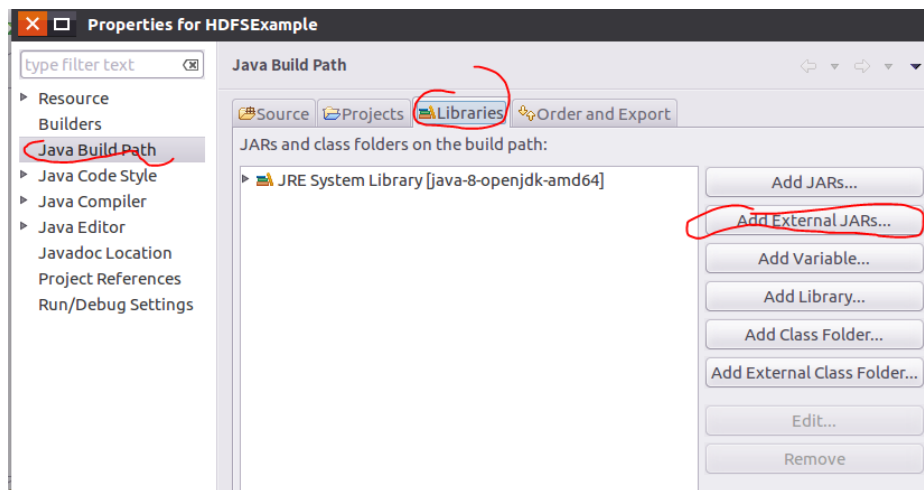
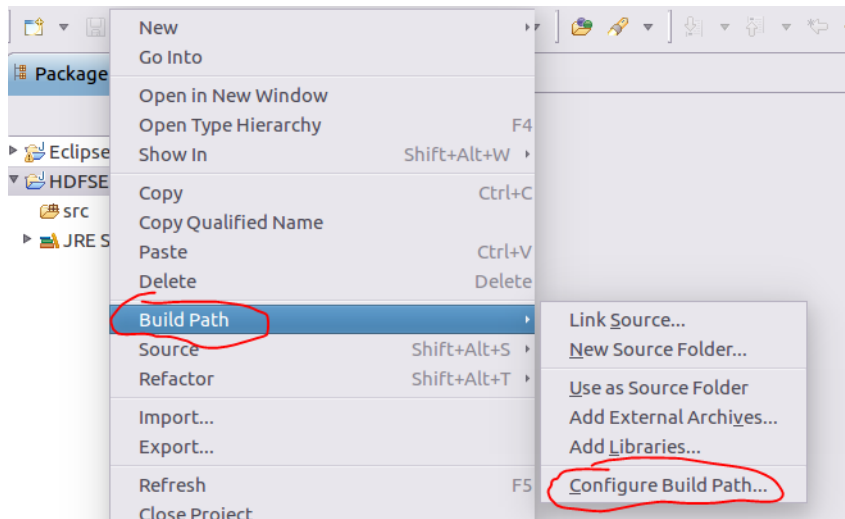


新建 javaProject'



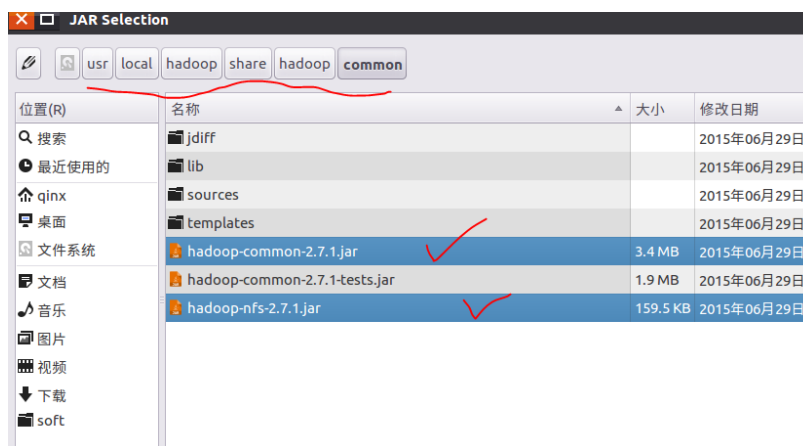
注意：如果使用 Oracle JDK，此处 JRE 会不同

二、添加 jar 包

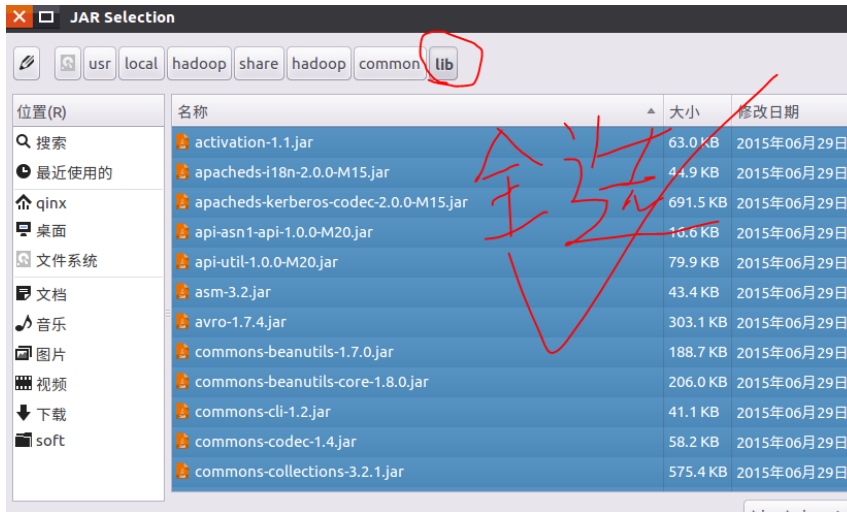


- 目录/usr/local/hadoop/share/hadoop/common/下的:

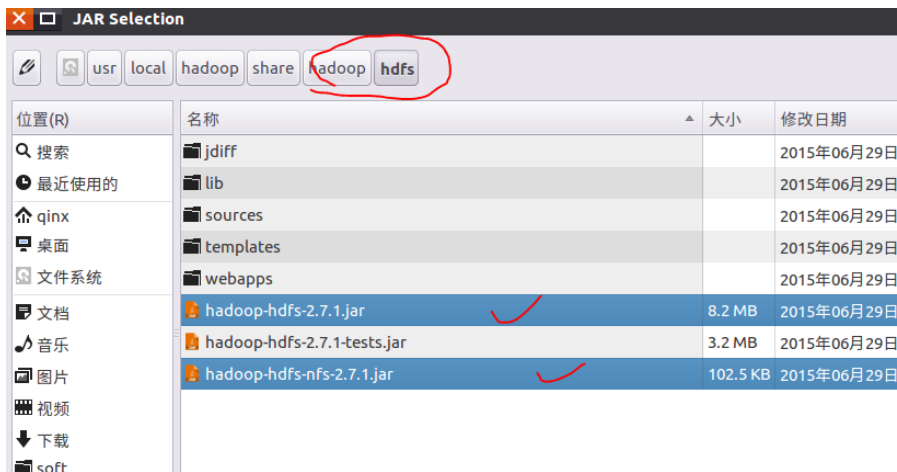
hadoop-common-2.7.1.jar 包和 hadoop-nfs-2.7.1.jar



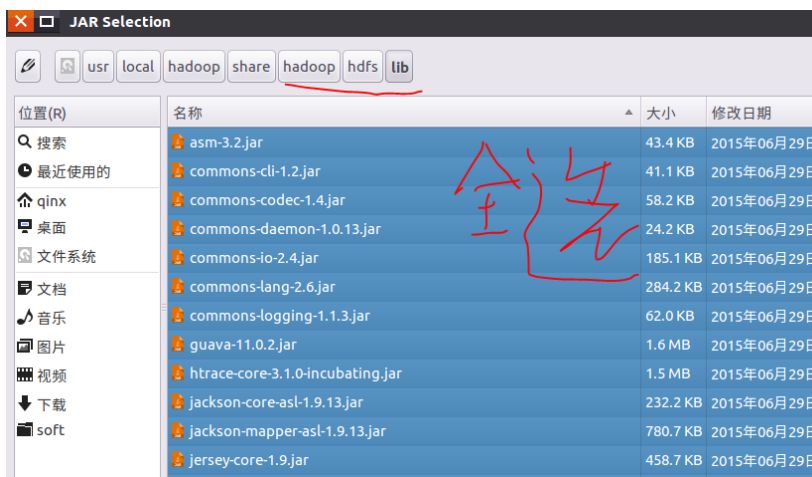
- 目录/usr/local/hadoop/share/hadoop/common/lib 下的所有 jar 包



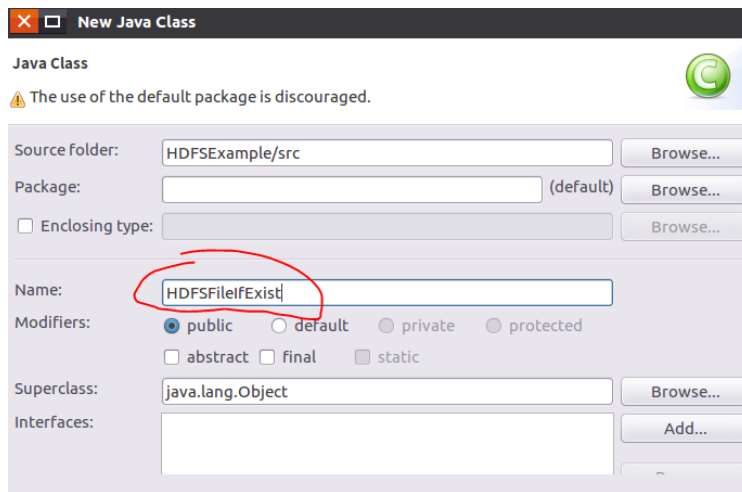
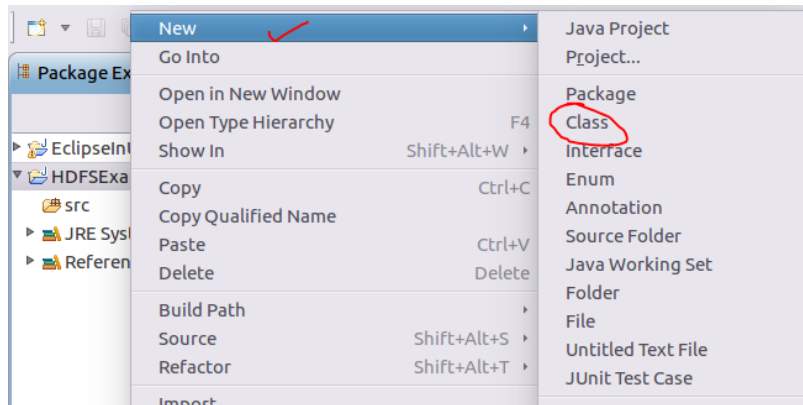
- 目录/usr/local/hadoop/share/hadoop/hdfs 下



- 目录/usr/local/hadoop/share/hadoop/hdfs/lib 下所有



三、编写程序



```
1 import org.apache.hadoop.conf.Configuration;
2 import org.apache.hadoop.fs.FileSystem;
3 import org.apache.hadoop.fs.Path;
4
5 public class HDFSFileIfExist {
6     public static void main(String[] args) {
7         try {
8             String fileName = "test";
9             Configuration conf = new Configuration();
10            conf.set("fs.defaultFS", "hdfs://localhost:9000");
11            conf.set("fs.hdfs.impl", "org.apache.hadoop.hdfs.DistributedFileSystem");
12            FileSystem hfs = FileSystem.get(conf);
13            if (hfs.exists(new Path(fileName))) {
14                System.out.println("文件存在");
15            } else {
16                System.out.println("文件不存在");
17            }
18        } catch (Exception e) {
19            e.printStackTrace();
20        }
21    }
22 }
23 }
```

四、执行

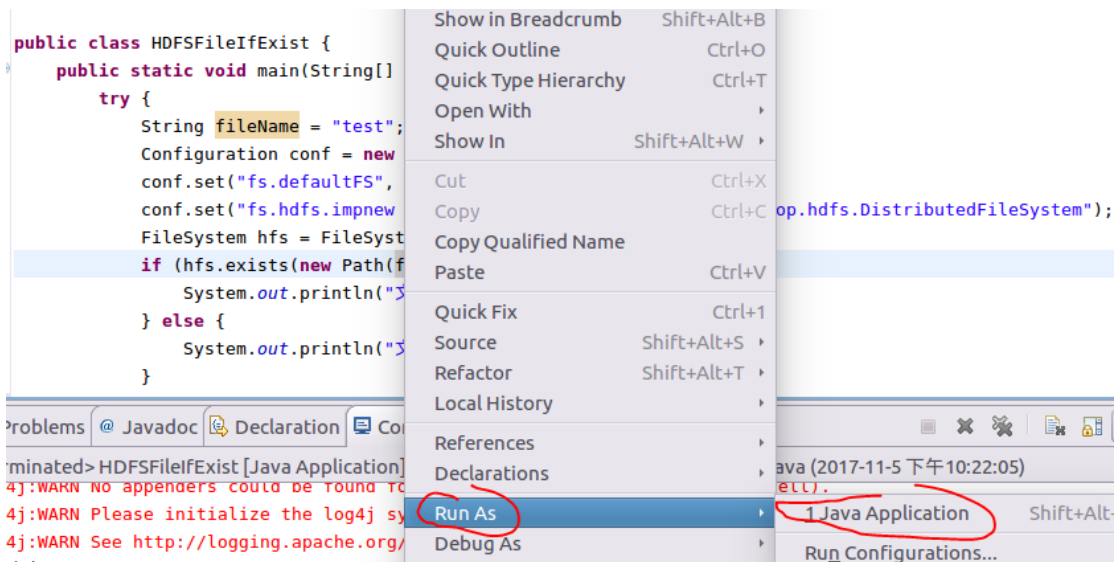
- 启动 dfs

```
qinx@hadooplab-VirtualBox:~$ start-dfs.sh
Starting namenodes on [localhost]
localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-qinx-name
node-hadooplab-VirtualBox.out
localhost: starting datanode, logging to /usr/local/hadoop/logs/hadoop-qinx-data
node-hadooplab-VirtualBox.out
Starting secondary namenodes [0.0.0.0]
0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop/logs/hadoop-qi
nx-secondarynamenode-hadooplab-VirtualBox.out
qinx@hadooplab-VirtualBox:~$ jps
3952 DataNode
4160 SecondaryNameNode
4280 Jps
2732 org.eclipse.equinox.launcher_1.3.0.dist.jar
3822 NameNode
```

- 上传文件 test, 程序判断 test 的路径默认放在 /user/qinx 下

```
qinx@hadooplab-VirtualBox:~$ hadoop fs -mkdir /user
qinx@hadooplab-VirtualBox:~$ hadoop fs -mkdir /user/qinx
qinx@hadooplab-VirtualBox:~$ hadoop fs -put test /user/qinx
```

- 执行, 右击并做如下选择



```
log4j:WARN No appenders could be found for logger (org.apache.hadoop.util.Shell).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
文件存在
```

- 如果在 dfs 中删除或者移动 test 文件

```
qinx@hadooplab-VirtualBox:~$ hadoop fs -rm /user/qinx/test
17/11/05 22:27:37 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Emptier interval = 0 minutes.
Deleted /user/qinx/test
```

```
log4j:WARN No appenders could be found for logger (org.apache.hadoop.util.Shell).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
文件不存在
```

- 如果 dfs 没有启动，出现连接异常

```
qinx@hadooplab-VirtualBox:~$ stop-dfs.sh
Stopping namenodes on [localhost]
localhost: stopping namenode
localhost: stopping datanode
Stopping secondary namenodes [0.0.0.0]
0.0.0.0: stopping secondarynamenode
qinx@hadooplab-VirtualBox:~$ jps
5749 Jps
2732 org.eclipse.equinox.launcher_1.3.0.dist.jar
```

```
log4j:WARN No appenders could be found for logger (org.apache.hadoop.util.Shell).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
java.net.ConnectException: Call From hadooplab-VirtualBox/127.0.1.1 to localhost:9000 failed on connection exception: java.net.ConnectEx
    at sun.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method)
    at sun.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructorAccessorImpl.java:62)
    at sun.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingConstructorAccessorImpl.java:45)
    at java.lang.reflect.Constructor.newInstance(Constructor.java:423)
```