2016-09-22 11:21:53[2084845770@qtp-815342107-74][org.apache.slider.client.SliderClient][WARN] - Failed to get a Lock on Builder working with srd2 at /slider/.slider/cluster/srd2 : org.apache.slider.core.persist.LockAcquireFailedException: Failed to acquire lock /slider/.slider/cluster/srd2/readlock  
org.apache.slider.core.persist.LockAcquireFailedException: Failed to acquire lock /slider/.slider/cluster/srd2/readlock  
        at org.apache.slider.core.persist.ConfPersister.acquireWritelock(ConfPersister.java:141)  
        at org.apache.slider.core.persist.ConfPersister.save(ConfPersister.java:253)  
        at org.apache.slider.core.build.InstanceBuilder.persist(InstanceBuilder.java:274)  
        at org.apache.slider.client.SliderClient.persistInstanceDefinition(SliderClient.java:2028)  
        at org.apache.slider.client.SliderClient.buildInstanceDefinition(SliderClient.java:1926)  
        at org.apache.slider.client.SliderClient.actionUpdate(SliderClient.java:1723)  
        at com.chinamobile.cmss.slider.web.rest.global.SliderRouterAppsServiceImpl.updateApp(SliderRouterAppsServiceImpl.java:128)  
        at com.chinamobile.cmss.slider.web.rest.global.GlobalResource.updateApp(GlobalResource.java:281)

问题复现：

源码分析：

SliderClient##actionUpdate, actionBuild

#buildInstanceDefinition

#loadPersistedClusterDescription

ConfPersister#readLock||writeLock

1)readLock的初始化

ConfPersister#load(conf <= AggregateConf)

boolean owner = acquireReadLock()

coreFS.cat(readlock, false, new Date(now).toGMTString()); //创建readLock

如果readLock已存在或者访问的目录不存在，抛出LocakAcquireFailedException

2)readLock的释放

获取到readlock后，然后从目录中loadConf，使用完以后releaseReadLock

@VisibleForTesting

boolean releaseReadlock(boolean owner) {

if (owner) {

try {

return fileSystem.delete(readlock, false);

} catch (IOException e) {

log.warn("IOException releasing writelock {} ", readlock, e);

}

}

return false;

}

这个过程中可能会发生release writeLock异常，没有将hdfs中该目录删除，最可能发生的异常：SafeModeException

