## storm脚本:是一个python脚本

调用storm脚本时,执行其中的main方法, mian方法源代码如下:

```
1.
      def main():
           if len(sys.argv) <= 1:</pre>
2.
3.
               print_usage()
4.
               sys.exit(-1)
5.
          global CONFIG OPTS
          config_list, args = parse_config_opts(sys.argv[1:])
6.
7.
          parse config(config list)
8.
          COMMAND = args[0]
          ARGS = args[1:]
9.
10.
           (COMMANDS.get(COMMAND, unknown command))(*ARGS)
```

### main方法中有两个参数:

COMMAND = args[0]

ARGS = args[1:]

#### 所有的COMMAND:

COMMANDS = {

"jar": jar, "kill": kill, "shell": shell, "nimbus": nimbus, "ui": ui, "logviewer": logviewer, "drpc": drpc, "supervisor": supervisor, "localconfvalue": print\_localconfvalue, "remoteconfvalue": print\_remoteconfvalue, "repl": repl, "classpath": print\_classpath, "activate": activate, "deactivate": deactivate, "rebalance": rebalance, "help": print\_usage, "list": listtopos, "dev-zookeeper": dev\_zookeeper, "version": version, "monitor": monitor

# 执行命令,提交Topology任务到集群:

#### 命令如下:

}

storm jar WordCount.jar com.stone.WordCountMain wordcount

#### 脚本的执行流程如下:

- ( 1 ) 获得COMMAND = args[0]参数,COMMAND = "jar"
- (2)在COMMANDS中找到对应的命令jar
- (3)调用def jar 方法

```
def jar(jarfile, klass, *args):
    exec_storm_class(
         klass,
         jvmtype="-client",
         extrajars=[jarfile, USER_CONF_DIR, STORM_DIR + "/bin"],
         args=args,
         jvmopts=JAR_JVM_OPTS + ["-Dstorm.jar=" + jarfile])
```

## (4)在def jar方法中,调用exec\_storm\_class

```
def exec_storm_class(klass, jvmtype="-server", jvmopts=[], extrajars=[], args=[],
fork=False):
    global CONFFILE
    storm_log_dir = confvalue("storm.log.dir",[CLUSTER_CONF_DIR])
```

```
if(storm_log_dir == None or storm_log_dir == "nil"):
 5.
              storm_log_dir = STORM_DIR+"/logs"
 6.
          all_args = [
              JAVA_CMD, jvmtype, get_config_opts(),
8.
              "-Dstorm.home=" + STORM_DIR,
9.
              "-Dstorm.log.dir=" + storm_log_dir,
              "-Djava.library.path=" + confvalue("java.library.path", extrajars),
10.
              "-Dstorm.conf.file=" + CONFFILE,
11.
              "-cp", get_classpath(extrajars),
12.
13.
          ] + jvmopts + [klass] + list(args)
14.
          print("Running: " + " ".join(all_args))
15.
          if fork:
16.
              os.spawnvp(os.P_WAIT, JAVA_CMD, all_args)
17.
          else:
18.
              os.execvp(JAVA_CMD, all_args) # replaces the current process and
19.
              # never returns
```

(5)在exec\_storm\_class中最终操作系统调用os.spawnvp(os.P\_WAIT, JAVA\_CMD, all\_args)或者os.execvp(JAVA\_CMD, all\_args)完成命令的执行。

## 也就是执行:

storm jar WordCount.jar com.stone.WordCountMain wordcount

## 实际上是调用:

java -client WordCount.jar com.stone.WordCountMain wordcount