Hadoop 部署、配置与运行

扉言:此文档为自己部署过程中的记录。配置后演示了单节点、单机伪分布和两台机器之间的分布运行、并对伪分布和完全分布做了初步对比以增进理解,最后演示了在eclipse下运行 hadoop 自带例子 wordcount 的步骤。

系统配置

(一)资源需求

- > Linux Ubuntu 9.10
 - //最新版本可上官方网站免费下载 www.ubuntulinux.org
 - //也可以向 Ubuntu 社区申请免费安装 shipit.ubuntu.com
- ➤ Hadoop 0.20.0 包
 - //最新版本可在 Apache 提供的镜像服务器下载
 - //www.apache.org → download → 镜像服务器 → hadoop
- > Sun-java6-jdk 包
 - //在终端机里输入:apt-get install sun-java6-jdk
 - //系统会自动下载包以及所有的依存包,同时进行包的安装
- > SSH 包(为远程登录会话提供安全性协议)
 - //在终端机里输入:apt-get install ssh
- ➤ Eclipse 包

//官方下载最新版本:www.eclipse.org/downloads/

(二)配置流程

- 1. 安装 ubuntu 9.04
- 2. 更新 deb 软件包列表
 - \$ sudo apt-get update
- 3. 安装系统更新
 - \$ sudo apt-get upgrade
- 4. 安装 JDK

- \$ sudo apt-get install sun-java6-jdk
 - //默认路径在/usr/lib/jvm,安装时需要 TAB 键选择 OK
- 5. 设置 java-6-sun 为默认的 java 程序
 - \$ sudo update-alternatives --config java //JDK 唯一,不需选择
 - \$ sudo update-java-alternatives -s java-6-sun
- 6. 设置 CLASSPATH 和 JAVA_HOME 系统环境变量
 - \$ sudo gedit /etc/environment

添加以下两行内容:

CLASSPATH=".:/usr/lib/jvm/java-6-sun/lib"

JAVA HOME="/usr/lib/jvm/java-6-sun"

- 7. 调整系统虚拟机的优先顺序
 - \$ sudo gedit /etc/jvm

在文件顶部添加一行

/usr/lib/jvm/java-6-sun

如果文件/etc/jvm 不存在则自己新建

- 8. 多节点分布式环境下的两个必要条件
 - a、每个节点有相同的用户名,如 shiep205
 - b、hadoop 文件路径相同,如/home/shiep205/hadoop
- 9. 下载 hadoop-*.tar.gz 至 /home/shiep205/
 - \$ cd ~ //选择默认路径
 - \$ sudo tar xzf hadoop-0.20.0.tar.gz //解压至当前路径
 - \$ mv hadoop-0.20.0 hadoop //重命名为 hadoop
 - \$ sudo chown -R shiep205:shiep205 hadoop

//赋予 shiep205 权限

- 10. 更新 hadoop 环境变量
 - \$ gedit hadoop/conf/hadoop-env.sh

将 #export JAVA HOME=/usr/lib/jvm/java-6-sun

改为 export JAVA HOME=/usr/lib/jvm/java-6-sun

- 11. 配置 SSH
 - \$ sudo apt-get install ssh
 - \$ sudo apt-get install rsync //远程同步,可能已经安装了最新版本
 - \$ ssh-keygen -t dsa -P '' -f ~/.ssh/id_dsa

- \$ cat ~/.ssh/id_dsa.pub >> ~/.ssh/authorized_keys
- \$ ssh localhost //验证配置成功与否

单节点配置

在前面工作已经做好的基础上,单节点的运行,运行在非分布模式,hadoop 作为单个 java 进程。运行命令,查看 hadoop 的使用文档 Bin/hadoop

以下例子复制压缩的 conf 目录作为输入,查找并显示正规式的匹配。输出写到 output 目录

- \$ mkdir input
- \$ cp conf/*.xml input
- \$ bin/hadoop jar hadoop-*-examples.jar grep input output
 'dfs[a-z.]+'
- \$ cat output/*

伪分布运行模式是在运行在单个机器之上,每一个 hadoop 的守护进程 为一个单独的 java 进程。

```
(一) 配置三个文件
```

```
conf/core-site.xml:
    <configuration>
      cproperty>
         <name>fs.default.name</name>
         <value>hdfs://localhost:9000</value>
      </configuration>
conf/hdfs-site.xml:
    <configuration>
      cproperty>
         <name>dfs.replication</name>
         <value>1</value>
      </property>
    </configuration>
 conf/mapred-site.xml:
    <configuration>
      cproperty>
         <name>mapred.job.tracker</name>
        <value>localhost:9001
     </configuration>
(二) 格式化 HDFS
```

进入 hadoop 的 bin 目录,运行命令:

\$ sudo bin/hadoop namenode -format

```
10/02/21 00:15:08 INFO namenode.NameNode: STARTUP MSG:
STARTUP MSG: Starting NameNode
STARTUP MSG:
          host = master/127.0.1.1
STARTUP MSG:
          args = [-format]
STARTUP MSG: version = 0.20.0
STARTUP MSG:
          build =
https://svn.apache.org/repos/asf/hadoop/core/branches/branch-0.20
-r 763504; compiled by 'ndaley' on Thu Apr 9 05:18:40 UTC 2009
10/02/21 00:15:09 INFO namenode.FSNamesystem: fsOwner=root,root
10/02/21 00:15:09 INFO namenode.FSNamesystem:
supergroup=supergroup
10/02/21 00:15:09 INFO namenode.FSNamesystem:
isPermissionEnabled=true
10/02/21 00:15:09 INFO common.Storage: Image file of size 94
saved in 0 seconds.
10/02/21 00:15:09 INFO common.Storage: Storage directory
/tmp/hadoop-root/dfs/name has been successfully formatted.
10/02/21 00:15:09 INFO namenode.NameNode: SHUTDOWN MSG:
SHUTDOWN MSG: Shutting down NameNode at master/127.0.1.1
```

(三) 启动 hadoop 监护进程

```
命令 $ bin/start-all.sh
starting namenode, logging to
/home/shiep205/hadoop/bin/../logs/hadoop-shiep205-namenode-
master.out
localhost: starting datanode, logging to
/home/shiep205/hadoop/bin/../logs/hadoop-shiep205-datanode-
```

```
master.out
localhost: starting secondarynamenode, logging to /home/shiep205/
hadoop/bin/../logs/hadoop-shiep205-secondarynamenode-master.out
starting jobtracker, logging to
/home/shiep205/hadoop/bin/../logs/hadoop-shiep205-jobtracker-
master.out
localhost: starting tasktracker, logging to
/home/shiep205/hadoop/bin/../logs/hadoop-shiep205-tasktracker-
master.out
```

(四)复制输入文件到 HDFS

命令:\$ bin/hadoop dfs -put conf input

//在 HDFS 下创建 input 目录,将 hadoop/conf 下的文件上传到 input 下//可以通过 bin/hadoop dfs -ls input 查看文件夹中的内容

(五)运行例子

命令:\$ bin/hadoop jar hadoop-*-examples.jar grep input output 'dfs[a-z].+'

```
10/02/21 00:06:13 INFO mapred.FileInputFormat: Total input paths
to process: 19
10/02/21 00:06:13 INFO mapred.JobClient: Running job:
job 201002202351 0001
10/02/21 00:06:14 INFO mapred.JobClient:
                                          map 0% reduce 0%
10/02/21 00:06:27 INFO mapred.JobClient:
                                          map 10% reduce 0%
10/02/21 00:06:33 INFO mapred.JobClient:
                                          map 21% reduce 0%
10/02/21 00:06:36 INFO mapred.JobClient:
                                          map 31% reduce 7%
10/02/21 00:06:39 INFO mapred.JobClient:
                                          map 42% reduce 7%
10/02/21 00:06:42 INFO mapred.JobClient:
                                          map 52% reduce 7%
10/02/21 00:06:45 INFO mapred.JobClient:
                                          map 63% reduce 10%
10/02/21 00:06:48 INFO mapred.JobClient:
                                          map 73% reduce 10%
10/02/21 00:06:51 INFO mapred.JobClient:
                                          map 84% reduce 17%
10/02/21 00:06:54 INFO mapred.JobClient:
                                          map 94% reduce 17%
```

10/02/21 00:06:57 INFO mapred.JobClient: map 100% reduce 31% 10/02/21 00:07:06 INFO mapred.JobClient: map 100% reduce 100% 10/02/21 00:07:08 INFO mapred.JobClient: Job complete: job 201002202351 0001 10/02/21 00:07:08 INFO mapred.JobClient: Counters: 18 10/02/21 00:07:08 INFO mapred.JobClient: Job Counters 10/02/21 00:07:08 INFO mapred.JobClient: Launched reduce tasks=1 10/02/21 00:07:08 INFO mapred.JobClient: Launched map tasks=19 10/02/21 00:07:08 INFO mapred.JobClient: Data-local map tasks=19 10/02/21 00:07:08 INFO mapred.JobClient: FileSystemCounters 10/02/21 00:07:08 INFO mapred.JobClient: FILE BYTES READ=114 10/02/21 00:07:08 INFO mapred.JobClient: HDFS BYTES READ=23954 10/02/21 00:07:08 INFO mapred.JobClient: FILE BYTES WRITTEN=944 10/02/21 00:07:08 INFO mapred.JobClient: HDFS BYTES WRITTEN=206 10/02/21 00:07:08 INFO mapred.JobClient: Map-Reduce Framework 10/02/21 00:07:08 INFO mapred.JobClient: Reduce input groups=2 10/02/21 00:07:08 INFO mapred.JobClient: Combine output records=2 10/02/21 00:07:08 INFO mapred.JobClient: Map input records=709 10/02/21 00:07:08 INFO mapred.JobClient: Reduce shuffle bytes=222 10/02/21 00:07:08 INFO mapred.JobClient: Reduce output records=2

```
10/02/21 00:07:08 INFO mapred.JobClient:
                                             Spilled Records=4
10/02/21 00:07:08 INFO mapred.JobClient:
                                             Map output bytes=104
10/02/21 00:07:08 INFO mapred.JobClient:
                                             Map input
bytes=23954
10/02/21 00:07:08 INFO mapred.JobClient:
                                             Combine input
records=2
10/02/21 00:07:08 INFO mapred.JobClient:
                                             Map output records=2
10/02/21 00:07:08 INFO mapred.JobClient:
                                             Reduce input
records=2
10/02/21 00:07:08 WARN mapred.JobClient: Use GenericOptionsParser
for parsing the arguments. Applications should implement Tool for
the same.
10/02/21 00:07:08 INFO mapred.FileInputFormat: Total input paths
to process: 1
10/02/21 00:07:09 INFO mapred.JobClient: Running job:
job 201002202351 0002
10/02/21 00:07:10 INFO mapred.JobClient:
                                          map 0% reduce 0%
10/02/21 00:07:18 INFO mapred.JobClient:
                                          map 100% reduce 0%
10/02/21 00:07:30 INFO mapred.JobClient:
                                          map 100% reduce 100%
10/02/21 00:07:32 INFO mapred.JobClient: Job complete:
job 201002202351 0002
10/02/21 00:07:32 INFO mapred.JobClient: Counters: 18
10/02/21 00:07:32 INFO mapred.JobClient:
                                           Job Counters
10/02/21 00:07:32 INFO mapred.JobClient:
                                             Launched reduce
tasks=1
10/02/21 00:07:32 INFO mapred.JobClient:
                                             Launched map tasks=1
10/02/21 00:07:32 INFO mapred.JobClient:
                                             Data-local map
tasks=1
10/02/21 00:07:32 INFO mapred.JobClient:
                                           FileSystemCounters
10/02/21 00:07:32 INFO mapred.JobClient:
                                             FILE BYTES READ=114
                                             HDFS BYTES READ=206
10/02/21 00:07:32 INFO mapred.JobClient:
```

10/02/21 00:07:32 INFO mapred.JobClient: FILE BYTES WRITTEN=260 10/02/21 00:07:32 INFO mapred.JobClient: HDFS BYTES WRITTEN=92 10/02/21 00:07:32 INFO mapred.JobClient: Map-Reduce Framework 10/02/21 00:07:32 INFO mapred.JobClient: Reduce input groups=1 10/02/21 00:07:32 INFO mapred.JobClient: Combine output records=0 10/02/21 00:07:32 INFO mapred.JobClient: Map input records=2 10/02/21 00:07:32 INFO mapred.JobClient: Reduce shuffle bytes=114 10/02/21 00:07:32 INFO mapred.JobClient: Reduce output records=2 10/02/21 00:07:32 INFO mapred.JobClient: Spilled Records=4 10/02/21 00:07:32 INFO mapred.JobClient: Map output bytes=104 10/02/21 00:07:32 INFO mapred.JobClient: Map input bytes=120 10/02/21 00:07:32 INFO mapred.JobClient: Combine input records=0 10/02/21 00:07:32 INFO mapred.JobClient: Map output records=2 10/02/21 00:07:32 INFO mapred.JobClient: Reduce input records=2

(六) 将文件输出

- 1、将输出文件从分布式文件系统拷贝到本地文件系统查看
 - \$ bin/hadoop dfs -get output output
 - \$ cat output/*

cat: output/_logs: 是一个目录

- 1 dfsadmin and mradmin commands to refresh the security policy in-effect.
- 1 dfsmetrics.log
 - 2、在分布式文件系统上查看输出文件

\$ bin/hadoop fs -cat output/part-*

1 dfsadmin and mradmin commands to refresh the security policy
in-effect.

1 dfsmetrics.log

(七) 停止 hadoop 系统

\$ bin/stop-all.sh

stopping jobtracker

localhost: stopping tasktracker

stopping namenode

localhost: stopping datanode

localhost: stopping secondarynamenode

两台机器间的分布实现

前提:已完成单节点配置

(一) 系统规划

| Node | User | IP address | 备注 |
|------------|----------|-----------------------------|----------------------|
| Namenode | shiep205 | 192.168.0. <mark>154</mark> | NameNode和JobTracker为 |
| Jobtracker | shiep205 | 192.168.0. <mark>154</mark> | 同一台主机 |
| Datanode | shiep205 | 192.168.0.136 | |

(二) 修改 hosts,将 IP 与主机名对应上(ifconfig 命令查看 IP)

\$ sudo gedit /etc/hosts

添加两行数据

192.168.0.154 master

//保证一个主机名对应一个 IP

192.168.0.136 slave

(三)配置 ssh(保证 masters 无需密码可 SSH 到 slaves)

i) 在所有 slave 节点上执行命令:

scp 远程用户名@IP 地址:文件名 1 本地用户名@IP 地址:文件名 2

- \$ scp shiep205@NameNodeIP:/home/shiep205/.ssh/id_dsa.pub /home/ shiep205/.ssh/IP1 dsa.pub
- \$ scp shiep205@JobTrackerIP:/home/shiep205/.ssh/id_dsa.pub
 /home/shiep205/.ssh/IP2 dsa.pub
 - \$ cat ~/.ssh/IP1_dsa.pub >> ~/.ssh/authorized_keys
 - \$ cat ~/.ssh/IP2_dsa.pub >> ~/.ssh/authorized_keys 此例中 192.168.0.154 是 NameNode 的 IP
- \$ scp shiep205@192.168.0.154:/home/shiep205/.ssh/id_dsa.pub
 /home/shiep205/.ssh/154_dsa.pub

//该命令将 NameNode 上的公钥远程拷贝到本地,并更名为 154_dsa.pub

shiep205@192.168.0.154's password:

id dsa.pub

100% 615

0.6KB/s

00:00

将 NameNode 的公钥加入到受信列表:

```
$ cat ~/.ssh/154_dsa.pub >> ~/.ssh/authorized_keys
在 JobTracker 上执行命令:
```

ii)在 JobTracker 上执行命令:

```
//因为 NameNode 要在 JobTracker 上启动 Secondary NameNode
```

- \$ scp shiep205@NameNodeIP:/home/shiep205/.ssh/id_dsa.pub /home/ shiep205/.ssh/IP_dsa.pub
- \$ scp shiep205@192.168.0.154:/home/shiep205/.ssh/id_dsa.pub
 /home/shiep205/.ssh/154_dsa.pub
 - \$ cat ~/.ssh/154_dsa.pub >> ~/.ssh/authorized_keys

(四)配置 conf/masters conf/slaves

在所有节点上:

在<HAD00P_INSTALL>/conf/masters 中加入 NameNode IP、Jobtracker IP 在<HAD00P_INSTALL>/conf/slaves 中加入 slaveIPs

(五)配置 core-site.xml、hdfs-site.xml、mapred-site.xml

conf/core-site.xml:

conf/hdfs-site.xml:

```
cproperty>
       <name>dfs.name.dir</name>
       <value>/home/shiep205/hdfs/name</value>
     </property>
     cproperty>
       <name>dfs.data.dir</name>
       <value>/home/shiep205/hdfs/data</value>
     </configuration>
  conf/mapred-site.xml:
  <configuration>
     cproperty>
       <name>mapred.job.tracker</name>
       <value>JobTrackerIP:9001
     </property>
  </configuration>
  (六) 运行
  1) 格式化分布式文件系统,在 NameNode 上
                            //一定要在 NameNode 上格式化 HDFS
  $ sudo bin/hadoop namenode -format
  10/02/17 22:11:24 INFO namenode.NameNode: STARTUP MSG:
  STARTUP MSG: Starting NameNode
              host = master/192.168.0.154
 STARTUP MSG:
              args = [-format]
 STARTUP MSG:
               version = 0.20.0
 STARTUP MSG:
 STARTUP MSG:
               build =
https://svn.apache.org/repos/asf/hadoop/
 core/branches/branch-0.20 -r 763504; compiled by 'ndaley' on
```

2) 启动 HDFS,在 NameNode 上:

\$ bin/start-dfs.sh

//该命令将访问 NameNode 上的 conf/slaves 文件,在本机上启动 NameNode,在本机和 JobTracker 上启动 SecondaryNameNode,在 conf/slaves 文件里的所有主机上启动 DataNode

```
starting namenode, logging to
/home/shiep205/hadoop/bin/../logs/hadoop-shiep205-namenode-
master.out
192.168.0.136: starting datanode, logging to
/home/shiep205/hadoop/bin/../logs/hadoop-shiep205-datanode-
slave.out
192.168.0.154: starting secondarynamenode, logging to
/home/shiep205/hadoop/bin/../logs/hadoop-shiep205-
secondarynamenode-master.out
```

3) 启动 Map-Reduce,在 JobTracker 上:

\$ bin/start-mapred.sh

//该命令将访问 JobTracker 上的 conf/slaves 文件,在本机上启动 //Jobtracker,在 conf/slaves 文件里的所有主机上启动

TaskTracker

```
starting jobtracker, logging to
/home/shiep205/hadoop/bin/../logs/hadoop-shiep205-jobtracker-
master.out
192.168.0.136: starting tasktracker, logging to
```

/home/shiep205/

hadoop/bin/../logs/hadoop-shiep205-tasktracker-slave.out

(七)运行例子

在/home/shiep205 文件夹下新建一文件 a,里面输入若干单词。

- 1) 将本地文件 a 上传到 hdfs:
- \$ bin/hadoop dfs -put ~/a test1/a

//删除命令为 \$ bin/hadoop dfs -rmr test1

2)执行例子

\$ bin/hadoop jar hadoop-*-examples.jar wordcount test1/ test2/

```
10/02/17 22:24:24 INFO input.FileInputFormat: Total input paths
```

to process: 1

10/02/17 22:24:25 INFO mapred.JobClient: Running job:

job 201002172218 0002

10/02/17 22:24:26 INFO mapred.JobClient: map 0% reduce 0%

10/02/17 22:24:42 INFO mapred.JobClient: map 100% reduce 0%

10/02/17 22:24:54 INFO mapred.JobClient: map 100% reduce

100%

10/02/17 22:24:56 INFO mapred.JobClient: Job complete:

job 201002172218 0002

10/02/17 22:24:56 INFO mapred.JobClient: Counters: 17

10/02/17 22:24:56 INFO mapred.JobClient: Job Counters

10/02/17 22:24:56 INFO mapred.JobClient: Launched reduce

tasks=1

10/02/17 22:24:56 INFO mapred.JobClient: Launched map

tasks=1

10/02/17 22:24:56 INFO mapred.JobClient: Data-local map

tasks=1

10/02/17 22:24:56 INFO mapred.JobClient: FileSystemCounters

10/02/17 22:24:56 INFO mapred.JobClient:

FILE BYTES READ=285

```
10/02/17 22:24:56 INFO mapred.JobClient:
HDFS BYTES READ=261
10/02/17 22:24:56 INFO mapred.JobClient:
FILE BYTES WRITTEN=602
10/02/17 22:24:56 INFO mapred.JobClient:
HDFS BYTES WRITTEN=259
10/02/17 22:24:56 INFO mapred.JobClient: Map-Reduce Framework
10/02/17 22:24:56 INFO mapred.JobClient:
                                            Reduce input
groups=0
10/02/17 22:24:56 INFO mapred.JobClient:
                                            Combine output
records=5
10/02/17 22:24:56 INFO mapred.JobClient:
                                           Map input
records=8
10/02/17 22:24:56 INFO mapred.JobClient:
                                            Reduce shuffle
bytes=0
10/02/17 22:24:56 INFO mapred.JobClient:
                                           Reduce output
records=0
10/02/17 22:24:56 INFO mapred.JobClient:
                                            Spilled Records=10
10/02/17 22:24:56 INFO mapred.JobClient:
                                           Map output
bytes=293
10/02/17 22:24:56 INFO mapred.JobClient:
                                           Combine input
records=8
10/02/17 22:24:56 INFO mapred.JobClient:
                                           Map output
records=8
10/02/17 22:24:56 INFO mapred.JobClient:
                                           Reduce input
records=5
```

3)查看结果:

\$ bin/hadoop dfs -cat test2/part-r-00000

```
map 4
reduce 1
hadoop 1
```

(八) 关闭 Hadoop 进程

关闭 Map-Reduce,在 JobTracker 上:

\$ bin/stop-mapred.sh

stopping jobtracker

192.168.0.136: stopping tasktracker

关闭 HDFS,在 NameNode 上:

\$ bin/stop-dfs.sh

stopping namenode

192.168.0.136: stopping datanode

192.168.0.154: stopping secondarynamenode

(九) 进程查看

可以使用 jps 命令查看系统目前运行的进程,可用来查看 start 过程中 java 进程的产生。

(十) HDFS 命令

\$ bin/hadoop dfs -command [parameter]

| command | usage | |
|---------|------------------|--|
| cat | 显示文件 | |
| get | 把 HDFS 上的文件下载到本地 | |
| put | 向 HDFS 上载数据文件 | |
| rmr | 删除 | |
| ср | 复制 | |
| mkdir | 新建目录 | |

对比伪分布与完全分布

前言:为了简化理解,可以抛开 SSH 协议

1) Hadoop 讲程启动

在伪分布中,masters的IP为localhost,slaves的IP也为localhost。与分布式相比,它的datanode、secondarynamenode和tasktracker进程都是在localhost创建,如图:

shiep205@master:~/hadoop\$ bin/start-all.sh
starting namenode, logging to /home/shiep205/hadoop/bin/../logs/hadoop-shiep205namenode-master.out
localhost: starting datanode, logging to /home/shiep205/hadoop/bin/../logs/hadoo

p-shiep205-datanode-master.out
localhost: starting secondarynamenode logging to /home/shiep205/hadoop/bin/../l
ogs/hadoop-shiep205-secondarynamenode-master.out
starting jobtracker, logging to /home/shiep205/hadoop/bin/../logs/hadoop-shiep20 =

5-jobtracker-master.out
localhost: starting tasktracker, logging to /home/shiep205/hadoop/bin/../logs/ha

doop-shiep205-tasktracker-master.out

192.168.0.136: starting datanode logging to /home/shiep205/hadoop/bin/../logs/hadoop-shiep205-datanode-slave.out

192.168.0.154: starting secondarynamenode logging to /home/shiep205/hadoop/bin/../logs/hadoop-shiep205-secondarynamenode-master.out

shiep205@master:~/hadoop\$ bin/start-mapred.sh
starting jobtracker, legging to /home/shiep205/hadoop/bin/../logs/hadoop-shiep20
5-jobtracker-master.out

192.168.0.136: starting tasktracker logging to /home/shiep205/hadoop/bin/../logs/hadoop-shiep205-tasktracker-slave.out

shiep205@master:~/hadoop\$

2) /etc/hosts 文件参数比较

192.168.0.154 master //完全分布
192.168.0.136 slave //完全分布
#127.0.1.1 master //伪分布 for Namenode & Jobtracker

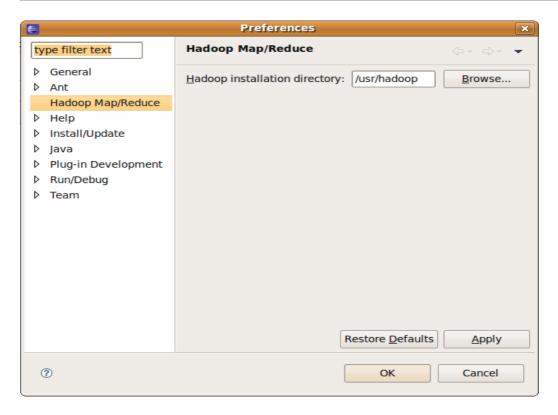
#127.0.0.1 localhost /*伪分布 for datanode & Tasktracker \$ secondarynamenode */

3) 3个核心配置文件 core-site.xml、hdfs-site.xml和 mapred-site.xml

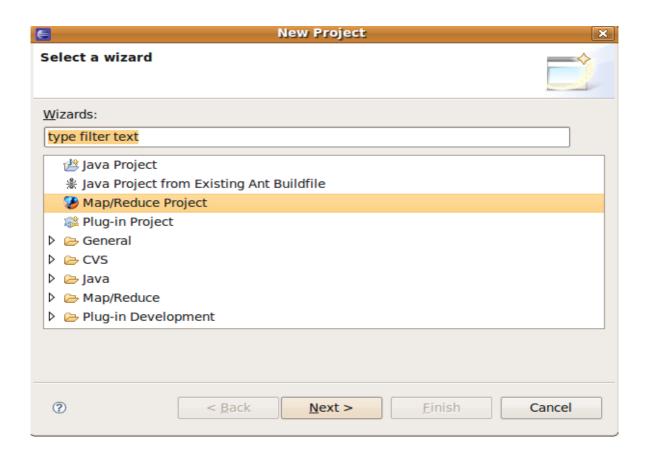
Eclipse 配置

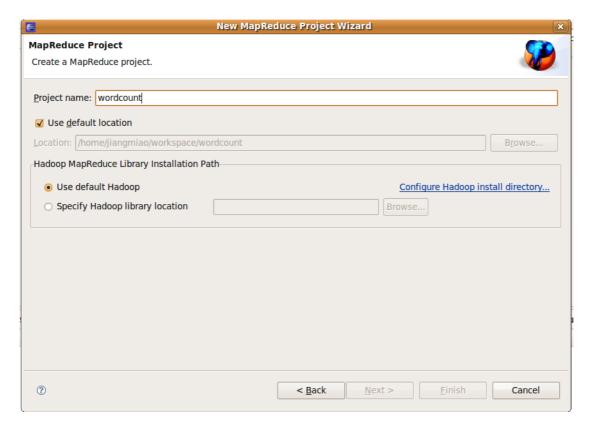
在 eclipse 下运行 hadoop 自带例子 wordcount 的步骤。

- 1. 下载 eclipse-SDK-*-linux-gtk.tar.gz 到/home/YourName
- 2. 在/home/[Your Name]下解压
 - \$ sudo tar xzf eclipse-SDK-*-linux-gtk.tar.gz
- 3. 修改 eclipse 文件夹的权限,使其属于 YourGroup 组 YourName 用户 \$ sudo chown -R YourGroup:YourName eclipse
- 4. 将 hadoop 文件夹下的 contrib/eclipse-plugin/hadoop-*-eclipse-plugin.jar 拷贝到 eclipse 文件夹下的/plugins 文件夹里
- 5. 在/home/YourName/testin 下新建 2 个文本文件,里面各输入若干单词
- 6. 启动 Eclipse
- 7. 设置 Hadoop 安装文件夹的路径 Window->Preferences

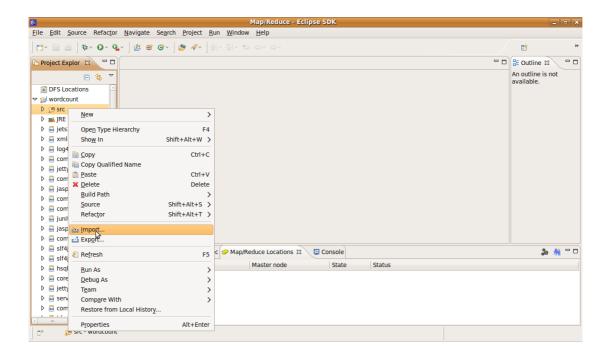


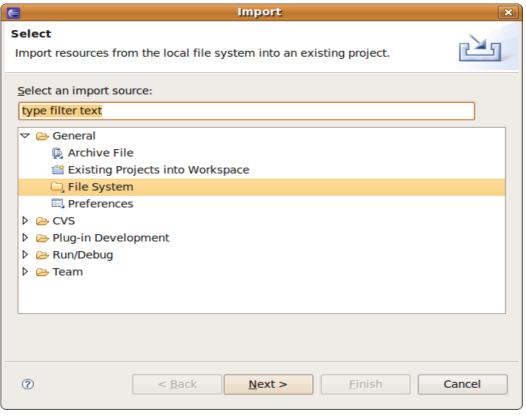
8.新建 Map/Reduce 项目

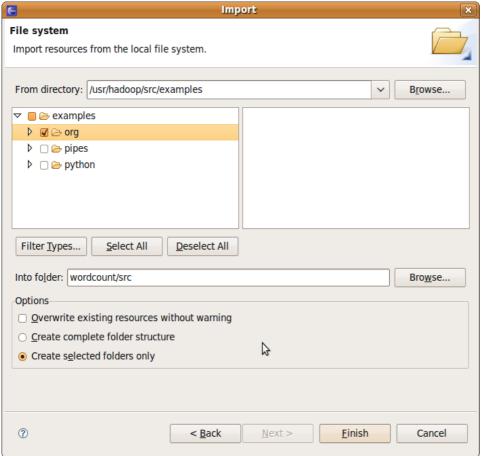




9.导入 Hadoop 自带例子







10. 运行例子

