- 1. 上传 hadoop 版本到主机一/opt/softwares
- 2. 解压 hadoop 包缩到 modules 目录,更改权限等(同第一章)
- 3. Hadoop 瘦身

进入 hadoop 的 share 文件夹下, rm -rf ./doc/

```
[kfk@bigdata-pro01 etc]$ cd ../share
[kfk@bigdata-pro01 share]$ ls
[kfk@bigdata-pro01 share]$ rm -rf ./doc/
[kfk@bigdata-pro01 share]$ 1s
[kfk@bigdata-pro0l share]$ rm -rf ./doc/
```

进入 ete/hadoop 文件夹下, rm -rf ./\*.cmd

```
igdata-prool share]$ ed .../etc/hadoop/
iigdata-prool hadoop]$ 11
124
-r-- 1 kfk kfk 3889 Aug 6 2014 configuration.xsl
-r-- 1 kfk kfk 1335 Aug 6 2014 configuration.xsl
-r-- 1 kfk kfk 1335 Aug 6 2014 configuration.xsl
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-r-- 1 kfk kfk 1343 Aug 6 2014 hadoop-env.sh
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-r-- 1 kfk kfk 1443 Aug 6 2014 hadoop-policy.xml
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-r-- 1 kfk kfk 1181 Aug 6 2014 mapred-queues.xml.template
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-r-- 1 kfk kfk 690 Au
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hdfs-site.xml
httpfs-env.sh
httpfs-log4j.properties
httpfs-signature.secret
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          httpfs-site.xml
log4j.properties
mapred-env.sh
mapred-queues.xml.template
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mapred-site.xml.template yarn-env.sh
slaves yarn-site.xml
ssl-client.xml.example
ssl-server.xml.example
```

- 4. 连接 notepad 配置 hadoop
- 5. 格式化:

进入 hadoop-2.5.0 目录下

bin/hdfs namenode -format

6. 启动节点:

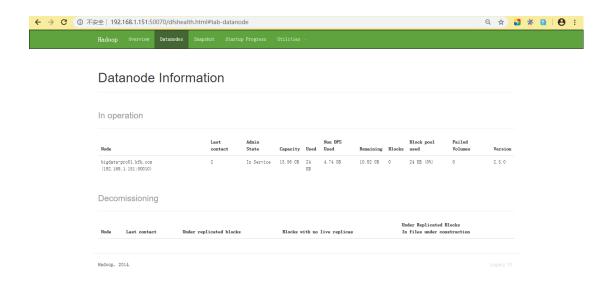
sbin/hadoop-daemon.sh start namenode

```
[kfk@bigdata-pro01 hadoop-2.5.0]$ 1s
bin etc include lib libexec sbin share [kfk@bigdata-pro01 hadoop-2.5.0]$ sbin/hadoop-daemon.sh start namenode
starting namenode, logging to /opt/modules/hadoop-2.5.0/logs/hadoop-kfk-namenode-bigdata-pro01.kfk.com.out
[kfk@bigdata-pro01 hadoop-2.5.0]$ jps
27711 Jps
27676 NameNode
[kfk@bigdata-pro01 hadoop-2.5.0]$
```

## sbin/hadoop-daemon.sh start datanode

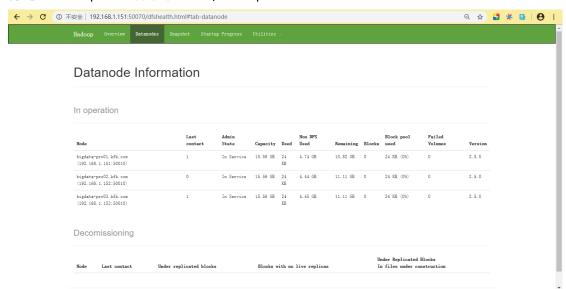
```
[kfk@bigdata-pro01 hadoop-2.5.0]$ sbin/hadoop-daemon.sh start datanode
starting datanode, logging to /opt/modules/hadoop-2.5.0/logs/hadoop-kfk-datanode-bigdata-pro01.kfk.com.out
[kfk@bigdata-pro01 hadoop-2.5.0]$ jps
27828 Jps
27676 NameNode
27764 DataNode
[kfk@bigdata-pro01 hadoop-2.5.0]$
```

192.168.1.151:50070



- 7. 将配置好的 hadoop 发给其他两台主机:
  - scp -r hadoop-2.5.0/ kfk@bigdata-pro02.kfk.com:/opt/modules/
  - scp -r hadoop-2.5.0/ kfk@bigdata-pro03.kfk.com:/opt/modules/
- 8. 启动 2, 3 主机的 datanode:

都进入 hadoop-2.5.0 目录下,sbin/Hadoop-daemon.sh start datanode



9. 测试上传文件:

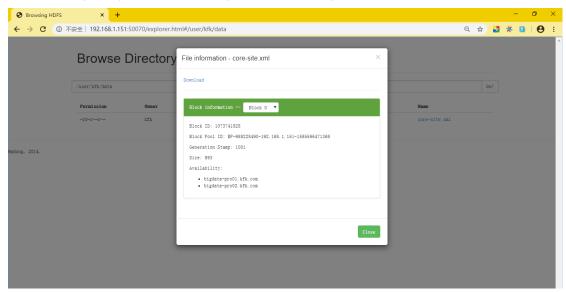
主机一, 进入 hadoop-2.5.0 目录下

创建 user 目录,bin/hdfs dfs -mkdir -p /user/kfk/data/



上传文件,

bin/hdfs dfs -put /opt/modules/hadoop-2.5.0/etc/hadoop/core-site.xml /user/kfk/data



读取文件, bin/hdfs dfs -text /user/kfk/data/core-site.xml

- 10. 配置 yarn
- 11. 分发 hadoop 给 2, 3 主机:

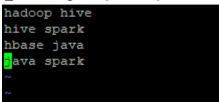
scp -r ./\* kfk@bigdata-pro02.kfk.com:/opt/modules/hadoop-2.5.0/etc/hadoop/scp -r ./\* kfk@bigdata-pro03.kfk.com:/opt/modules/hadoop-2.5.0/etc/hadoop/

12. 创建一个数据,进入 datas 目录下

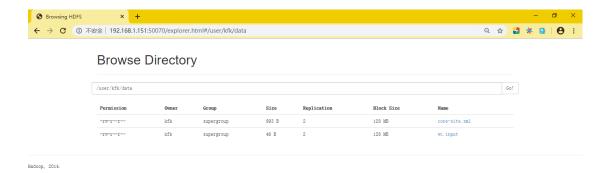
touch wc.input

vi wc.input

kfk@bigdata-pro01:/opt/datas



13. 进入 hadoop-2.5.0 目录,上传文件: bin/hdfs dfs -put /opt/datas/wc.input /user/kfk/data



14. 启动主机 1 的 resourcemanager:

Hadoop-2.5.0 目录下

sbin/yarn-daemon.sh start resourcemanager

15. 启动主机 1 的 nodemanager:

sbin/yarn-daemon.sh start nodemanager

```
[kfk@bigdata-pro01 hadoop-2.5.0]$ jps

27676 NameNode

28447 Jps

28417 NodeManager

27764 DataNode

28164 ResourceManager

[kfk@bigdata-pro01 hadoop-2.5.0]$
```

16. 启动主机 2 的 nodemanager:

sbin/yarn-daemon.sh start nodemanager

```
[kfk@bigdata-pro02 hadoop-2.5.0]$ jps
27847 Jps
27817 NodeManager
23460 DataNode
[kfk@bigdata-pro02 hadoop-2.5.0]$ ■
```

17. 启动主机 3 的 nodemanager:

sbin/yarn-daemon.sh start nodemanager

```
[kfk@bigdata-pro03 hadoop-2.5.0]$ jps
27597 DataNode
27843 Jps
27812 NodeManager
[kfk@bigdata-pro03 hadoop-2.5.0]$ ■
```

- 18. 进入 yarn 页面,http://192.168.1.151:8088/
- 19. 启动主机一的日志文件:

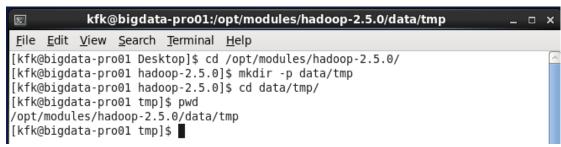
sbin/mr-jobhistory-daemon.sh start historyserver

```
[kfk@bigdata-pro01 hadoop-2.5.0]$ sbin/mr-jobhistory-daemon.sh start historyserver starting historyserver, logging to /opt/modules/hadoop-2.5.0/logs/mapred-kfk-historyserver-bigdata-pro01.kfk.com.out [kfk@bigdata-pro01 hadoop-2.5.0]$ jps 27676 NameNode 28597 Jps 28568 JobHistoryServer 28417 NodeManager 27764 DataNode 28164 ResourceManager [kfk@bigdata-pro01 hadoop-2.5.0]$
```

20. 修改配置文件

新建文件夹 tmp

/opt/modules/hadoop-2.5.0/data/tmp



- 21. 删除 2,3 主机上的 hadoop-2.5.0 文件夹,等 1 重新分发 进入主机 1 的 modules 目录下,分发 hadoop 给 2,3 主机: scp -r hadoop-2.5.0/ kfk@bigdata-pro02.kfk.com:/opt/modules/ scp -r hadoop-2.5.0/ kfk@bigdata-pro03.kfk.com:/opt/modules/
- 22. 停掉主机一的服务: (主机 2, 3 重启) sbin/yarn-daemon.sh stop resourcemanager sbin/yarn-daemon.sh stop nodemanager sbin/mr-jobhistory-daemon.sh stop historyserver sbin/hadoop-daemon.sh stop namenode sbin/hadoop-daemon.sh stop datanode
- 23. 重新格式化主机一: bin/hdfs namenode -format
- 24. 重新启动主机一的 hdfs 和 yarn: sbin/hadoop-daemon.sh start namenode sbin/hadoop-daemon.sh start datanode
- 25. 启动 2,3 的服务: Sbin/Hadoop-daemon.sh start datanode
- 26. 主机一创建文件和启动服务: bin/hdfs dfs -mkdir -p /user/kfk/data/ sbin/yarn-daemon.sh start resourcemanager sbin/yarn-daemon.sh start nodemanager

```
[kfk@bigdata-pro01 hadoop-2.5.0]$ jps
29644 Jps
29046 NameNode
29548 NodeManager
29126 DataNode
29291 ResourceManager
[kfk@bigdata-pro01 hadoop-2.5.0]$
```

27. 启动 2, 3 的服务:

sbin/yarn-daemon.sh start nodemanager sbin/yarn-daemon.sh start nodemanager

```
[kfk@bigdata-pro02 hadoop-2.5.0]$ jps
2370 DataNode
2484 NodeManager
2586 Jps
[kfk@bigdata-pro02 hadoop-2.5.0]$ ■
```

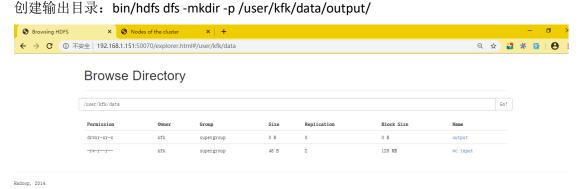
## 28. 主机一启动 log 日志:

sbin/mr-jobhistory-daemon.sh start historyserver

```
[kfk@bigdata-pro01 hadoop-2.5.0]$ jps
29046 NameNode
29704 JobHistoryServer
29735 Jps
29548 NodeManager
29126 DataNode
29291 ResourceManager
[kfk@bigdata-pro01 hadoop-2.5.0]$
```

## 29. Mapreduce 运行:

上传数据: bin/hdfs dfs -put /opt/datas/wc.input /user/kfk/data/



## 运行 wordcount:

bin/yarn jar share/hadoop/mapreduce/hadoop-mapreduce-examples-2.5.0.jar wordcount /user/kfk/data/wc.input /user/kfk/data/output/1

查看结果:

bin/hdfs dfs -text /user/kfk/data/output/1/par\*

```
[kfk@bigdata-pro01 hadoop-2.5.0]$ bin/hdfs dfs -text /user/kfk/data/output/1/par*

20/03/30 17:23:01 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable hadoop 1

hbase 1

hive 2

java 2

spark 2

[kfk@bigdata-pro01 hadoop-2.5.0]$
```

30. Ssh 配置:

cd~

cd .ssh/

rm -rf known\_hosts

```
ssh-keygen -t rsa(一直回车)
ssh-copy-id bigdata-pro01.kfk.com
ssh-copy-id bigdata-pro02.kfk.com
ssh-copy-id bigdata-pro03.kfk.com
ssh bigdata-pro02.kfk.com
主机 1hadoop-2.5.0 目录下:
sbin/start-dfs.sh
sbin/start-yarn.sh
(jobHistoryserver 手动开的)
```

```
[kfk@bigdata-pro01 hadoop-2.5.0]$ jps
3457 Jps
2812 SecondaryNameNode
2969 ResourceManager
2533 NameNode
3074 NodeManager
2636 DataNode
3426 JobHistoryServer
[kfk@bigdata-pro01 hadoop-2.5.0]$
```