Jdk&hadoop 配置部分

步骤一、配置 hosts 将主机名与 ip 对应

ifconfig -a

#在 master 和所有虚拟机中运行,获得 master 的虚拟网卡 VMnet8 的 ip 和所有 slaver 的 ip

🖉 root@ma	aster:~
[root@mas eth0	<pre>ter ~]# ifconfig -a Link encap:Ethernet HWaddr F8:0F:41:F8:29:F2 inet addr:172.16.102.133 Bcast:172.16.255.255 Mask:255.255.0.0 BROADCAST MULTICAST MTU:1500 Metric:1 RX packets:0 errors:0 dropped:0 overruns:0 frame:0 TX packets:0 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:0 (0.0 b) TX bytes:0 (0.0 b) Interrupt:16 Memory:fbb00000-fbb20000</pre>
ethl	Link encap:Ethernet HWaddr F8:0F:41:F8:29:F3 inet addr:172.16.102.133 Bcast:172.16.255.255 Mask:255.255.0.0 BROADCAST MULTICAST MTU:1500 Metric:1 RX packets:0 errors:0 dropped:0 overruns:0 frame:0 TX packets:0 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:0 (0.0 b) TX bytes:0 (0.0 b) Memory:fbc20000-fbc40000
eth2	Link encap:Ethernet HWaddr F8:0F:41:F8:29:F4 inet addr:172.16.102.133 Bcast:172.16.255.255 Mask:255.255.0.0 inet6 addr: fe80::fa0f:41ff:fef8:29f4/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:151851 errors:0 dropped:0 overruns:0 frame:0 TX packets:51585 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:74427341 (70.9 MiB) TX bytes:19116452 (18.2 MiB) Memory:fbc00000-fbc20000
10	Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0 inet6 addr: ::1/128 Scope:Host UP LOOPBACK RUNNING MTU:16436 Metric:1 RX packets:27840 errors:0 dropped:0 overruns:0 frame:0 TX packets:27840 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:18339440 (17.4 MiB) TX bytes:18339440 (17.4 MiB)
[root@mas	

vi /etc/hosts

#该文件只需先在 master 上配置,格式: 192.168.***.***



步骤二、安装 JDK,添加环境变量

#如果 master 和 slaver 架构不同请分别安装,若相同可以最后上传至 slaver #下载 jdk-6u45-linux-x64.bin 放在/usr/local 里

#因为我们虚拟机是 32 位,所以虚拟机中使用 jdk-6u45-linux-i586.bin chmod +x jdk-6u45-linux-x64.bin

#添加可执行权限

./jdk-6u45-linux-x64.bin

#执行程序,自动解压到当前目录

學 root@master:/usr/local	- • •
[root@master local]# chmod +x jdk-6u45-linux-x64.bin	A .
[root@master local]# ./jdk-6u45-linux-x64.bin	· · ·

vi /etc/profile #设置环境变量,在文件最后添加一下内容

export JAVA_HOME=/usr/local/java/jdk1.6.0_45 export JRE_HOME=/usr/local/java/jdk1.6.0_45/jre export CLASSPATH=.:\$JAVA_HOME/lib:\$JRE_HOME/lib:\$CLASSPATH export PATH=\$PATH:\$JAVA_HOME/bin:\$JRE_HOME/bin:\$JAVA_HOME #注:为了以后集群工作的方便,这里建议每台机器的 java 最好一

致

14	
else umask <mark>822</mark> fi	
<pre>for i in /etc/profile.d/*.sh ; do if [-r "\$i"]; then if ["\$(#*i)" != "\$-"]; then</pre>	
else oop配置 "\$i" >/dev/null 2>&1 ^{(t} fi done	∯ ∓ - ¤ x
unset i unset i pathmunge	
export JAVA_HOME=/usr/local/jdk1.6.0_45 export JRE_HOME=/usr/local/jdk1.6.0_45/jre export HADOOP_HOME=/usr/local/hadoop-2.3.0 export CLASSPATH=.:\$JAVA_HOME/lib:\$JRE_HOME/lib:\$CLASSPAT export PATH=\$JAVA_HOME/bin:\$JRE_HOME/bin:\$HADOOP_HOME/bir	H ;\$HADOOP_HOME/sbin:\$PATH
an a late la refile # 使 a refile 配罢立供立即失故 (各土乙重 e	

source /etc/profile #使 profile 配置文件立即生效(免去了重启) java -version javac -version

#验证是否成功,失败可能由于系统预装 openjdk,需要配置默认 jdk

配置默认 jdk:

update-alternatives --install /usr/bin/java java /usr/local/jdk1.6.0 45/bin/java 300 /usr/bin/javac update-alternatives --install javac /usr/local/jdk1.6.0 45/bin/javac 300 update-alternatives --config java update-alternatives --config javac Proot@master:/usr/local [root@master local]# source /etc/profile [root@master local]# java -version java version "1.7.0_45" OpenJDK Runtime Environment (rhel-2.4.3.3.el6-x86_64 u45-b15) OpenJDK 64-Bit Server VM (build 24.45-b08, mixed mode) [root@master local]# javac -version avac 1.6.0_28 javac 1.0.0_28 [root@master local]# update-alternatives --install /usr/bin/java java /usr/local /jdk1.6.0_45/bin/java 300 [root@master local]# update-alternatives --install /usr/bin/javac javac /usr/loc al/jdk1.6.0_45/bin/javac 300 [root@master local]# update-alternatives --config java There are 4 programs which provide 'java'. Selection Command /usr/lib/jvm/jre-1.7.0-openjdk.x86_64/bin/java /usr/lib/jvm/jre-1.6.0-openjdk.x86_64/bin/java /usr/lib/jvm/jre-1.5.0-gcj/bin/java /usr/local/jdk1.6.0_45/bin/java *+ 1 Enter to keep the current selection[+], or type selection number: 4 [root@master local]# update-alternatives --config javac There are 2 programs which provide 'javac'. Selection Command *+ 1 /usr/lib/jvm/java-1.6.0-openjdk.x86_64/bin/javac /usr/local/jdk1.6.0_45/bin/javac Ξ Enter to keep the current selection[+], or type selection number: 2 [root@master local]#

步骤三、配置 ssh 无密码登陆 (先只在 master 上配置)

cd #进入当前用户主目录(master 的) ls -al #查看有无.ssh 目录,如果没有请 mkdir .ssh 新建该目录

P root@master	:~							×
-rw-rr	1 root	root	18	May	20	2009	.bash_logout	*
-rw-rr	1 root	root	176	May	20	2009	.bash_profile	
-rw-rr	1 root	root	176	Sep	23	2004	.bashrc	
drwxr-xr-x.	4 root	root	4096	Apr	19	09:13	. cache	
drwx	5 root	root	4096	Apr	19	01:54	.config	
-rw-rr	1 root	root	100	Sep	23	2004	.cshrc	
drwx	3 root	root	4096	Apr	19	01:54	. dbus	
drwxr-xr-x.	2 root	root	4096	Apr	19	01:54	Desktop	
-rw	1 root	root	16	Apr	19	01:54	.esd_auth	
drwx	4 root	root	4096	Apr	20	07:46	.gconf	
drwx	2 root	root	4096	Apr	20	07:47	.gconfd	
drwx	5 root	root	4096	Apr	19	01:54	.gnome2	
drwxr-xr-x.	3 root	root	4096	Apr	19	01:54	.gnote	
drwx	2 root	root	4096	Apr	20	07:44	.gnupg	
drwxr-xr-x.	2 root	root	4096	Apr	19	01:54	.gstreamer-0.10	
drwx	2 root	root	4096	Apr	19	01:54	.gvfs	
-rw	1 root	root	1240	Apr	20	07:44	.ICEauthority	
-rw-rr	1 root	root	1704	Apr	20	07:47	.imsettings.log	
-rw-rr	1 root	root	58786	Apr	19	01:30	install.log	
-rw-rr	1 root	root	10726	Apr	19	01:28	install.log.syslog	
drwxr-xr-x.	3 root	root	4096	Apr	19	01:54	.local	
drwxr-xr-x.	2 root	root	4096	Apr	19	01:54	.nautilus	
drwx	2 root	root	4096	Apr	19	01:54	.pulse	
-rw	1 root	root	256	Apr	19	01:54	.pulse-cookie	
-rw	1 root	root	218	Apr	20	07:46	.recently-used.xbel	
drwxr-xr-x.	2 root	root	4096	Apr	20	09:16	.ssh	
-rw-rr	l root	root	129	Dec	4	2004	.tcshrc	-
drwx	3 root	root	4096	Apr	20	07:46	.thumbnails	
-rw	l root	root	798	Apr	20	06:47	.viminfo	Ξ
drwxr-xr-x.	3 root	root	4096	Apr	19	01:55	workspace	
-rw	1 root	root	104	Apr	20	06:45	.Xauthority	
[root@master]#							*

cd .ssh

#进入.ssh 目录

ssh-keygen -t rsa

#生成密钥,过程中一直<Enter>即可,生成的密钥对保存在

id_rsa 中

Proot@master:~/.ssh	
[root@master ~]# cd .ssh	^
[root@master .ssh]# ssh-keygen -t rsa	
Generating public/private rsa key pair. Reter file in abiek to pour the base (/act/ act/idams).	
Enter file in which to save the key (/root/.ssh/id_rsa):	
Enter passpirase (empty for no passpirase). Enter same passpirase again:	
Your identification has been saved in /root/.ssh/id rsa.	
Your public key has been saved in /root/.ssh/id rsa.pub.	
The key fingerprint is:	
b7:4a:71:32:9e:b5:ef:91:d9:ac:c8:00:94:b9:34:9a root@master	
The key's randomart image is:	
+L RSA 2048]+	
E o S t	
= o + o	
. + 0 0	
. o.+	E
[root@master .ssh]#	*

cp id_rsa.pub authorized_keys

#把生成的公钥追加到 authorized_keys 中,用于实现无密码登陆自己 scp authorized_keys root@slaver0:/root/.ssh





#如果上面的方法失败,尝试以下操作来开启 RSA 认证 :

vi /etc/ssh/sshd_config

RSAAuthentication	#设为	yes
PubkeyAuthentication	#设为	yes
AuthorizedKeysFile	#设为	.ssh/authorized_keys

service sshd restart #重启 ssh 服务

步骤四、hadoop 配置

下载 hadoop-2.3.0,解压后放入/usr/local

1.添加环境变量

vi /etc/profile #在文件的最后加入以下内容 export HADOOP_HOME=/usr/local/hadoop-2.3.0 export PATH=\$PATH:\$JAVA_HOME/bin:\$JRE_HOME/bin: \$HADOOP_HOME/bin:\$HADOOP_HOME/sbin #PATH 里添加 hadoop 的两项即可



2. 配置数个文件 #配置文件所在目录为/usr/local/hadoop2.x.x/etc/hadoop

文件 1: core-site.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<configuration>
<property>
```

<!-- 当前集群 NameNode 的 IP 地址(使用 master 代替)和端口号。2.0 前使用 fs.default.name,

但后续兼容-->

```
<name>fs.defaultFS</name>
<value>hdfs://master:9000</value>
```

</property>

<property>

<!-- 设置临时文件目录 -->

<name>hadoop.tmp.dir</name>

<!-- 当前用户须要对此目录有读写权限。可使用命令 sudo chown -hR [user] /home/hadoop/ -->

<value>/home/hadoop/hadoop-temp</value>

<description>Abase for other temporary directories.</description>
</property>

<property>

<name>io.file.buffer.size</name> <value>4096</value>

</property>

</configuration>

文件 2: hdfs-site.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<configuration>
    <property>
    <!-- SecondaryNamenode 网络地址,这里使用 master 代替-->
            <name>dfs.namenode.secondary.http-address</name>
            <value>master:50090</value>
    </property>
    <property>
    <!-- NameNode 工作目录,须预先存在 -->
            <name>dfs.namenode.name.dir</name>
            <value>file:/home/hadoop/dfs-name</value>
    </property>
    <property>
    <!-- DataNode 工作目录 -->
            <name>dfs.datanode.data.dir</name>
            <value>file:/home/hadoop/dfs-data</value>
    </property>
    <property>
```

```
<!-- 文件 (副本)的存储数量 -->
<name>dfs.replication</name>
<!-- 小于或等于附属机数量。默认 3 -->
<value>3</value>
</property>
<!-- 可以从网页端监控 hdfs -->
<name>dfs.webhdfs.enabled</name>
<value>true</value>
</property>
<property>
<name>dfs.nameservices</name>
<value>hadoop-cluster1</value>
</property>
```

```
</configuration>
```

文件 3: mapred-site.xml

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<configuration>
    <property>
    <!-- map-reduce 运行框架 -->
            <name>mapreduce.framework.name</name>
            <!-- yarn:分布式模式 -->
            <value>varn</value>
            <final>true</final>
    </property>
    <property>
            <name>mapreduce.jobtracker.http.address</name>
            <value>master:50030</value>
    </property>
    <property>
            <name>mapreduce.jobhistory.address</name>
            <value>master:10020</value>
    </property>
    <property>
            <name>mapreduce.jobhistory.webapp.address</name>
            <value>master:19888</value>
    </property>
    <property>
```

```
<name>mapred.job.tracker</name>
<value>http://master:9001</value>
</property>
```

</configuration>

文件 4: yarn-site.xml

```
<?xml version="1.0"?>
<configuration>
    <!-- Site specific YARN configuration properties -->
    <property>
            <name>yarn.resourcemanager.hostname</name>
            <value>master</value>
    </property>
   <property>
            <name>yarn.nodemanager.aux-services</name>
            <value>mapreduce shuffle</value>
   </property>
   <property>
            <name>yarn.resourcemanager.address</name>
            <value>master:8032</value>
   </property>
    <property>
            <name>yarn.resourcemanager.scheduler.address</name>
            <value>master:8030</value>
   </property>
   <property>
            <name>yarn.resourcemanager.resource-tracker.address</name>
            <value>master:8031</value>
   </property>
   <property>
            <name>yarn.resourcemanager.admin.address</name>
            <value>master:8033</value>
   </property>
   <property>
            <name>yarn.resourcemanager.webapp.address</name>
            <value>master:8088</value>
   </property>
</configuration>
```

文件 5: yarn-env.sh

export JAVA_HOME=/usr/local//jdk1.6.0_45 #在文件中 "some Java parameters"下面一行把 java 路径写完整

文件 6: hadoop-env.sh

敕

export JAVA_HOME=/usr/local//jdk1.6.0_45 #在文件中"java implementation"下面一行把 java 路径写完

Set Hadnes spectfle environment variables here. 7 The anty required environment variable is such (40Hb), ATT at 7 optional. When running a distributed configuration of is be 7 set Semigrant in this file, so that it is concertly defined 7 herois modes.	tions one et ex at	
7 The sale inflamentation to doe.		
export JAVA_HONE=/usi/locat/juki.8.0_45		
a the jear deplementation to use. Sker is reacted to run kers		
gentenus -3202 Tellut=g(13266 Tellut)		
export HADOOP CONF DIR=S{HADOOP CONF DIR:-"/etc/hadoop"}		
and the second		
<pre>for f in SHADOOP_HOME/contrib/capacity-scheduler/*.jar; do if ["SHADOOP_CLASSPATH"]; then export HADOOP_CLASSPATH=\$HADOOP_CLASSPATH:\$f else export HADOOP_CLASSPATH=\$f fi</pre>		
done		
If the resulting adjunct of heap to use, in MB: Defail t is ship. Response Weinhow Mississies		
Response meaning were and the set of the set		
a fabria dava suprime antices : Depth bil datadhi		
	19,1	37%

文件 7: slaves

#这里保存的是全部 slaver 的主机名

slaver0 slaver1 slaver2

slaver1 slaver2			小正任凭借的形大定 回	arine.
slaver3 <mark>s</mark> laver4				
Ê		▶ [1/1]		

步骤五、上传 hadoop、profile 至 slaver

scp -r /usr/local/hadoop-2.3.0 root@slaver0:/usr/local/



```
scp /etc/profile root@slaver0:/etc/
```

#分别上传至多个 slaver

Proot@master:~				
[root@master ~]	# scp	/etc/profile	root@slaver0:/	etc/
				-

步骤六、开始初始化并运行

1.关闭 master 以及各个 slaver 的防火墙
 service iptables stop #关闭防火墙
 chkconfig iptables off #关闭防火墙服务

🗙 Xming X		
E	root@slaver0:~	_ = ×
V File Edit View	Search Terminal Help	
<pre>[root@master ~]# # Last login: Thu A [root@slaver0 ~]# [root@slaver0 ~]# [root@slaver0 ~]#</pre>	ssh slaver0 or 24 17:20:10 2014 from 192.168.251.1 service iptables stop chkconfig iptables off	

4.格式化 HDFS 系统

hdfs namenode -format 或 hadoop namenode -format

#注:不可以有任何 warning 或 error

[root@master ~]	# hdfs namenode -format
14/04/24 08:36:3	25 INFO namenode.NameNode: STARTUP MSG:
/*********	********
STARTUP_MSG: Sta	arting NameNode
STARTUP_MSG: 1	nost = master/192.168.251.1
STARTUP_MSG:	args = [-format]
STARTUP MSG:	version = 2.3.0
STARTUP_MSG: 0	<pre>classpath = /usr/local/hadoop-2.3.0/etc/hadoop:/usr/local/hadoop-2 pp/common/lib/guaya.11.0.2 jar:/usr/local/hadoop.2.3.0/sbare/badoo</pre>
n/common/lib/ia	ckson_mapper_asl_1.8.8 jar:/usr/local/hadoon_2.3.0/share/hadoon/cd
mmon/lib/iets3t	A 9 0 jar:/usr/local/badoon-2 3 0/share/badoon/common/lib/jackson
iavre 1 8 8 ja	r:/usr/local/hadoon-2.3.0/share/hadoon/common/lib/commons.jo-2.4.d
act/use/local/b	adoon-2 3 A/chase/badoon/common/lib/aven 1 7 4 jar: (ver/local/bado
an ./usi/tocat/in	adoop/2.3.0/silaie/nadoop/common/ccb/avro-1.7.4.jar./usr/local/hadoo
op-2.3.0/Share/i	radoop/common/ttb/commons-configuration-1.6.jar:/usi/tocat/hadoop-
2.3.0/share/had	pop/common/lib/log4j-1.2.1/.jar:/usr/local/hadoop-2.3.0/share/hado
op/common/lib/co	ommons-logging-1.1.3.jar:/usr/local/hadoop-2.3.0/share/hadoop/comm
on/lib/jetty-6.1	1.26.jar:/usr/local/hadoop-2.3.0/share/hadoop/common/lib/slf4j-api
-1.7.5.jar:/usr,	/local/hadoop-2.3.0/share/hadoop/common/lib/commons-el-1.0.jar:/us
r/local/hadoop-1	2.3.0/share/hadoop/common/lib/xz-1.0.jar:/usr/local/hadoop-2.3.0/s

14/04/24 08:36:26 INFO namenode.FSNamesystem: dfs.namenode.safemode.extension = 30000 14/04/24 08:36:26 INFO namenode.FSNamesystem: Retry cache on namenode is enabled 14/04/24 08:36:26 INFO namenode.FSNamesystem: Retry cache will use 0.03 of total heap and retry cache entry expiry time is 600000 millis 14/04/24 08:36:26 INFO util.GSet: Computing capacity for map Namenode Retry Cache 14/04/24 08:36:26 INFO util.GSet: VM type = 64-bit 14/04/24 08:36:26 INFO util.GSet: 0.029999999329447746% max memory 888.9 MB = 273 14/04/24 08:36:26 INFO util.GSet: capacity = 2^15 = 32768 entries 14/04/24 08:36:26 INFO common.Storage: Storage directory /usr/local/hadoop-2.3.0/ dfs-name has been successfully formatted. 14/04/24 08:36:26 INFO namenode.FSImage: Saving image file /usr/local/hadoop-2.3. 0/dfs-name/current/fsimage.ckpt_0000000000000000000 using no compression 14/04/24 08:36:26 INFO namenode.FSImage: Image file /usr/local/hadoop-2.3.0/dfs-n ame/current/fsimage.ckpt_000000000000000000 of size 216 bytes saved in 0 seconds 14/04/24 08:36:26 INFO namenode.NNStorageRetentionManager: Going to retain 1 imag 14/04/24 08:36:26 INFO util.ExitUtil: Exiting with status 0 14/04/24 08:36:26 INFO namenode.NameNode: SHUTDOWN MSG: SHUTDOWN_MSG: Shutting down NameNode at master/192.168.251.1 root@master ~]#

5.启动集群

start-all.sh

root@master ~]# start-all.sh This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh 14/04/24 08:43:02 WARN util.NativeCodeLoader: Unable to load native-hadoop librar y for your platform... using builtin-java classes where applicable Starting namenodes on [master] master: starting namenode, logging to /usr/local/hadoop-2.3.0/logs/hadoop-root-na menode-master.out slaver0: starting datanode, logging to /usr/local/hadoop-2.3.0/logs/hadoop-root-d atanode-slaver0.out slaver3: starting datanode, logging to /usr/local/hadoop-2.3.0/logs/hadoop-root-d atanode-slaver3.out slaver2: starting datanode, logging to /usr/local/hadoop-2.3.0/logs/hadoop-root-d atanode-slaver2.out slaver1: starting datanode, logging to /usr/local/hadoop-2.3.0/logs/hadoop-root-d atanode-slaver1.out slaver4: starting datanode, logging to /usr/local/hadoop-2.3.0/logs/hadoop-root-d atanode-slaver4.out Starting secondary namenodes [master] master: starting secondarynamenode, logging to /usr/local/hadoop-2.3.0/logs/hadoo p-root-secondarynamenode-master.out 14/04/24 08:43:19 WARN util.NativeCodeLoader: Unable to load native-hadoop librar y for your platform... using builtin-java classes where applicable starting yarn daemons starting resourcemanager, logging to /usr/local/hadoop-2.3.0/logs/yarn-root-resou rcemanager-master.out slaver1: starting nodemanager, logging to /usr/local/hadoop-2.3.0/logs/yarn-rootnodemanager-slaver1.out slaver3: starting nodemanager, logging to /usr/local/hadoop-2.3.0/logs/yarn-rootnodemanager-slaver3.out slaver2: starting nodemanager, logging to /usr/local/hadoop-2.3.0/logs/yarn-rootnodemanager-slaver2.out slaver4: starting nodemanager, logging to /usr/local/hadoop-2.3.0/logs/yarn-rootnodemanager-slaver4.out slaver0: starting nodemanager, logging to /usr/local/hadoop-2.3.0/logs/yarn-rootnodemanager-slaver0.out root@master ~]#

6.监控集群资源

hdfs dfsadmin -report 或者 用 master 登陆网页查看:127.0.0.1:50070 127.0.0.1:8088

[root@master ~]# hdfs dfsadmin -report	
14/04/24 08:51:28 WARN util.NativeCodeLoader: Unable to load native-hadoop	librar
y for your platform using builtin-java classes where applicable	
Configured Capacity: 98051665920 (91.32 GB)	
Present Capacity: 69680492544 (64.90 GB)	
DFS Remaining: 69680369664 (64.89 GB)	
DFS Used: 122880 (120 KB)	
DFS_Used%: 0.00%	
Under replicated blocks: 0	
Blocks with corrupt replicas: 0	
Missing blocks: 0	
Datanodes available: 5 (5 total, 0 dead)	
Live datanodes:	
Name: 192.168.251.131:50010 (slaver2)	
Hostname: 192.168.251.131	
Decommission Status : Normal	
Configured Capacity: 19610333184 (18.26 GB)	
DFS Used: 24576 (24 KB)	
Non DFS Used: 5674123264 (5.28 GB)	
DFS Remaining: 13936185344 (12.98 GB)	
DFS Used%: 0.00%	
DFS Remaining%: 71.07%	
Configured Cache Capacity: 0 (0 B)	
Cache Used: 0 (0 B)	
Cache Remaining: 0 (0 B)	
Cache Used%: 100.00%	
Cache Remaining%: 0.00%	
Last contact: Thu Apr 24 08:51:26 CST 2014	

Name: 192.168.251.132:50010 (slaver4)

Hostname: 192.168.251.132 Decommission Status : Normal Configured Capacity: 19610333184 (18.26 GB) DFS Used: 24576 (24 KB) Non DFS Used: 5674311680 (5.28 GB) DFS Remaining: 13935996928 (12.98 GB) DFS Used%: 0.00% DFS Remaining%: 71.06% Configured Cache Capacity: 0 (0 B) Cache Used: 0 (0 B) Cache Remaining: 0 (0 B) Cache Used%: 100.00% Cache Remaining%: 0.00% Last contact: Thu Apr 24 08:51:26 CST 2014

Name: 192.168.251.129:50010 (slaver3) Hostname: 192.168.251.129 Decommission Status : Normal Configured Capacity: 19610333184 (18.26 GB) DFS Used: 24576 (24 KB) Non DFS Used: 5674303488 (5.28 GB) DFS Remaining: 13936005120 (12.98 GB) DFS Used%: 0.00% DFS Remaining%: 71.06% Configured Cache Capacity: 0 (0 B) Cache Used: 0 (0 B) Cache Remaining: 0 (0 B) Cache Used%: 100.00% Cache Remaining%: 0.00% Last contact: Thu Apr 24 08:51:28 CST 2014 Name: 192.168.251.130:50010 (slaver1) Hostname: 192.168.251.130 Decommission Status : Normal Configured Capacity: 19610333184 (18.26 GB) DFS Used: 24576 (24 KB) Non DFS Used: 5674098688 (5.28 GB) DFS Remaining: 13936209920 (12.98 GB) DFS Used%: 0.00% DFS Remaining%: 71.07% Configured Cache Capacity: 0 (0 B) Cache Used: 0 (0 B) Cache Remaining: 0 (0 B) Cache Used%: 100.00% Cache Remaining%: 0.00% Last contact: Thu Apr 24 08:51:27 CST 2014

Name: 192.168.251.128:50010 (slaver0) Hostname: 192.168.251.128 Decommission Status : Normal Configured Capacity: 19610333184 (18.26 GB) DFS Used: 24576 (24 KB) Non DFS Used: 5674336256 (5.28 GB) DFS Remaining: 13935972352 (12.98 GB) DFS Used%: 0.00% DFS Remaining%: 71.06% Configured Cache Capacity: 0 (0 B) Cache Used: 0 (0 B) Cache Remaining: 0 (0 B) Cache Remaining%: 0.00% Last contact: Thu Apr 24 08:51:25 CST 2014

下面从网页监控集群运行情况

Hadoop Overview Datanodes Snapshot Startup Progress Utilities

Overview 'master:9000' (active)

Started:	Thu Apr 24 08:51:04 CST 2014
Version:	2.3.0, r1567123
Compiled:	2014-02-11T13:40Z by jenkins from branch-2.3.0
Cluster ID:	CID-82374226-cced-4511-b1d5-f3055f4f7d48
Block Pool ID:	BP-1215179153-192.168.251.1-1398299786222

Summary

Security is off.

Safemode is off.

1 files and directories, 0 blocks = 1 total filesystem object(s).

Heap Memory used 28.09 MB of 237.38 MB Heap Memory. Max Heap Memory is 888.94 MB.

Non Heap Memory used 32.22 MB of 33.5 MB Commited Non Heap Memory. Max Non Heap Memory is 130 MB.

Configured Capacity:	91.32 GB
DFS Used:	120 KB
Non DFS Used:	26.42 GB
DFS Remaining:	64.9 GB
DFS Used%:	0%
DFS Remaining%:	71.07%
Block Pool Used:	120 KB
Block Pool Used%:	0%
DFS Remaining%:	71.07%
Block Pool Used:	120 KB
Block Pool Used%:	0%
DataNodes usages% (Min/Median/Max/stdDev):	0.00% / 0.00% / 0.00% / 0.00%
Live Nodes	5 (Decommissioned: 0)
Dead Nodes	0 (Decommissioned: 0)
Decommissioning Nodes	0
Number of Under-Replicated Blocks	0

Namenode Journal Status

Current transaction ID: 10				
Journal Manager	State			
FileJournalManager(root=/usr/local/hadoop-2.3.0/dfs-name)	${\sf EditLogFileOutputStream} (/usr/local/hadoop-2.3.0/dfs-name/current/edits_inprogress_00000000000000000000000000000000000$			

NameNode Storage

Storage Directory	Туре	State
/usr/local/hadoop-2.3.0/dfs-name	IMAGE_AND_EDITS	Active

Hadoop, 2014.