```
● 以下操作,每台机器都需要,在 hadoop 用户下操作
cd /data/app/hadoop-3.1.1/etc/hadoop
1. 配置 hadoop 使用 java 环境变量
 vim hadoop-env.sh
 export JAVA_HOME=/data/app/jdk1.8.0_191
2. core-site.xml 配置
 vim core-site.xml
 <?xml version="1.0" encoding="UTF-8"?>
 <?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
 <configuration>
         cproperty>
                 <name>fs.defaultFS</name>
                 <value>hdfs://master01/</value>
         </property>
 </configuration>
3. hdfs-site.xml 配置
 vim hdfs-site.xml
 <?xml version="1.0" encoding="UTF-8"?>
 <?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
 <configuration>
         cproperty>
                 <name>dfs.replication</name>
                 <value>3</value>
         </property>
 </configuration>
4. mapred-site.xml 配置
 <?xml version="1.0"?>
 <?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
 <configuration>
         cproperty>
                 <name>mapreduce.framework.name</name>
                 <value>yarn</value>
         </property>
         property>
                 <name>yarn.app.mapreduce.am.env</name>
```

```
</property>
property>
       <name>mapreduce.map.env</name>
       <value>HADOOP MAPRED HOME=${HADOOP HOME}
</property>
cproperty>
       <name>mapreduce.reduce.env</name>
       <value>HADOOP_MAPRED_HOME=${HADOOP_HOME}
</property>
cproperty>
       <name>mapreduce.map.memory.mb</name>
       <value>1024</value>
</property>
```

<value>HADOOP MAPRED HOME=\${HADOOP HOME}

vim yarn-site.xml

</configuration>

5. yarn-site.xml 配置

```
<?xml version="1.0"?>
 <configuration>
        cproperty>
                <name>yarn.resourcemanager.hostname
                <value>master01</value>
        </property>
        cproperty>
                <name>yarn.nodemanager.aux-services
                <value>mapreduce_shuffle</value>
        </property>
 </configuration>
6. workers 配置
```

vim workers core01

```
core02
 core03
7. 格式化hadoop文件系统
```

hadoop namenode -format

8. 启动hadoop

```
start-all.sh
```

9. 验证

master:

```
$ jps
22978 Jps
19669 ResourceManager
19210 NameNode
19454 SecondaryNameNode
core :
$ jps
15301 NodeManager
16823 Jps
15162 DataNode
master 端口状况:
 hadoop@master01:~$ netstat -ntplu
```

```
Active Internet connections (only servers)
 Proto Recv-Q Send-Q Local Address
                                                    Foreign Address
                                                                                  State
                                                                                                 PID/Program name
              0 0.0.0.0:9868
                                                     0.0.0.0:*
 tcp
                                                                                  LISTEN
                                                                                                 19454/java
                                           0.0.0.0:*
 tcp
                    0 0.0.0.0:9870
                                                                                                 19210/java
                                                                                  LISTEN
            0 0.0.0.0:9870 0.0.0.0:*
0 192.168.111.204:8020 0.0.0.0:*
0 0.0.0.0:22 0.0.0.0:*
0 192.168.111.204:8088 0.0.0.0:*
0 192.168.111.204:8030 0.0.0.0:*
0 192.168.111.204:8031 0.0.0.0:*
0 192.168.111.204:8032 0.0.0.0:*
0 192.168.111.204:8033 0.0.0.0:*
                                                                                  LISTEN
                                                                                                19210/java
 tcp
 tcp
                                                                                  LISTEN
 tcp
                                                                                  LISTEN
                                                                                                 19669/java
 tcp
                                                                                                19669/java
                                                                                  LISTEN
                                                                                                19669/java
 tcp
                                                                                  LISTEN
                                                                                                19669/java
 tcp
                                                                                  LISTEN
                                                                                                 19669/java
 tcp
                                                                                  LISTEN
                    0 :::22
                                                                                  LISTEN
 tcp6
                                                     :::*
udp
              0 0.0.0.0:68
                                                     0.0.0.0:*
浏览器访问: http://master:9870
Datanodes 显示所有配置的worker节点
← → C ① 不安全 | master01:9870/dfshealth.html#tab-datanode
```

(Not all processes could be identified, non-owned process info will not be shown, you would have to be root to see it all.)

```
Datanode usage histogram
```

```
In operation
Show 25 $ entries
                                                                                                                                       Search:
                                               ↓↑ Last contact ↓↑ Last Block Report ↓↑
                                                                                                                     ↓↑ Blocks ↓↑ Block pool used ↓↑ Version
 Node
                              ↓ Http Address
                                                                                                   Capacity
 ✓core01:9866 (192.168.111.206:9866) http://core01:9864 0s
                                                                                          18.44 GB
                                                                                                                                    3.37 MB (0.02%)
 ✓core02:9866 (192.168.111.205:9866) http://core02:9864 1s
                                                                                                                                    3.37 MB (0.02%)
                                                                                                                                                        3.1.1

√core03:9866 (192.168.111.207:9866) 
http://core03:9864 1s

                                                                                          18.44 GB
                                                                                                                         44
                                                                                                                                    3.37 MB (0.02%)
                                                                                                                                                        3.1.1
Showing 1 to 3 of 3 entries
                                                                                                                                               Previous
Entering Maintenance
```