- 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>
        <property>
                <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>
        <property>
                <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>
        <property>
                <name>mapreduce.framework.name</name>
                <value>yarn</value>
        </property>
        <property>
                <name>yarn.app.mapreduce.am.env</name>
                <value>HADOOP_MAPRED_HOME=${HADOOP_HOME}</value>
        </property>
        <property>
                <name>mapreduce.map.env</name>
                <value>HADOOP_MAPRED_HOME=${HADOOP_HOME}</value>
        </property>
        <property>
                <name>mapreduce.reduce.env</name>
                <value>HADOOP_MAPRED_HOME=${HADOOP_HOME}</value>
        </property>
        <property>
                <name>mapreduce.map.memory.mb</name>
                <value>1024</value>
        </property>
</configuration>
```

5. yarn-site.xml 配置

```
vim yarn-site.xml
<?xml version="1.0"?>
<configuration>
        <property>
                <name>yarn.resourcemanager.hostname</name>
                <value>master01</value>
        </property>
        <property>
                <name>yarn.nodemanager.aux-services</name>
                <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
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:9868            0.0.0.0:*               LISTEN      19454/java
tcp        0      0 0.0.0.0:9870            0.0.0.0:*               LISTEN      19210/java
tcp        0      0 192.168.111.204:8020    0.0.0.0:*               LISTEN      19210/java
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      -
tcp        0      0 192.168.111.204:8088    0.0.0.0:*               LISTEN      19669/java
tcp        0      0 192.168.111.204:8030    0.0.0.0:*               LISTEN      19669/java
tcp        0      0 192.168.111.204:8031    0.0.0.0:*               LISTEN      19669/java
tcp        0      0 192.168.111.204:8032    0.0.0.0:*               LISTEN      19669/java
tcp        0      0 192.168.111.204:8033    0.0.0.0:*               LISTEN      19669/java
tcp6       0      0 :::22                   :::*                    LISTEN      -
udp        0      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