

# 配置Hadoop环境



# Hadoop实验环境安装

- 实验目的

在实验平台上利用虚拟机搭建Hadoop伪分布式平台，并验证安装的正确性。对Hadoop进行配置和监控

# 实验步骤

- step 1. 配置免密码登录

```
sudo apt-get install ssh
```

```
ssh-keygen -t rsa
```

```
cat ~/.ssh/id_rsa.pub >> ~/.ssh/authorized_keys
```



- step 2. 安装 java

```
sudo apt-get install openjdk-7-jdk
```

```
java --version
```

- step 3. 下载安装Hadoop

```
tar -xzf hadoop-2.6.1.tar.gz
```

- step 4 修改主机名 以及主机名与IP的对应关系

- step 5 配置 hadoop-env.sh

```
export JAVA_HOME =/usr/lib/jvm/java-7-openjdk-amd64
```

```
export HADOOP_PREFIX = /home/hadoop/hadoop-2.6.1
```

# 实验步骤

step 6 配置 core-site.xml hadoop-site.xml

配置core-site.xml



```
<configuration>
```

```
  <property>
```

```
    <name>fs.defaultFS</name>
```

```
    <value>hdfs://hadoop:9000</value>
```

```
  </property>
```

```
  <property>
```

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

```
    <value>/home/hadoop/hadoop-2.6.1/temp</value>
```

```
  </property>
```

```
</configuration>
```

# 实验步骤

配置hdfs-site.xml



```
<configuration>  
  <property>  
    <name>dfs.replication</name>  
    <value>1</value>  
  </property>  
</configuration>
```

配置mapred-site.xml

```
<configuration>  
  <property>  
    <name>mapreduce.framework.name</name>  
    <value>yarn</value>  
  </property>  
</configuration>
```

# 实验步骤

配置yarn-site.xml



```
<configuration>
```

```
  <property>
```

```
    <name>yarn.nodemanager.aux-services</name>
```

```
    <value>mapreduce_shuffle</value>
```

```
  </property>
```

```
</configuration>
```

step 7 格式化namenode

```
bin/hdfs namenode --format
```

step 8 启动Hadoop

```
bin/start-all.sh
```

step 9 完成！检查运行状态

```
jps
```

Job admin <http://localhost:50030/>    HDFS <http://localhost:50070>

The End.