

单节点安装 cdh 版 hdfs hive

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原文链接: <https://ld246.com/article/1570799757381>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

<p>本篇文章单节点安装 hdfs hive , 实乃学习大数据必备的教程, 环境为: Centos7 JDK8.0 cdh5.5.1</p>

<p>下载地址: http://archive.cloudera.com/cdh5/cdh/5/</p>

<p>hadoop 版本: hadoop-2.6.0-cdh5.15.1.tar.gz</p>

<p>hive: http://archive.cloudera.com/cdh5/cdh/5/hive-1.1.0-cdh5.15.1.tar.gz</p>

<p>官方 hadoop 单节点安装教程: http://hadoop.apache.org/docs/stable/hadoop-project-dist/hadoop-common/SingleCluster.html</p>

<h4 id="关闭防火墙">关闭防火墙</h4>

<p>systemctl status firewalld.service</p>

<p>systemctl disable firewalld.service</p>

<h4 id="配置java-环境变量">配置 java 环境变量</h4>

<p>export JAVA_HOME=/usr/local/java</p>

<p>export CLASSPATH=.:JAVA_HOME/jre/lib/rt.jar:JAVA_HOME/lib/dt.jar:\$JAVA_HOME/lib/tools.jar</p>

<p>export PATH=PATH:JAVA_HOME/bin</p>

<h4 id="配置ssh免密登录">配置 ssh 免密登录</h4>

<p>注意: 单节点机器也需要配置本机 ssh 无密码登录 ssh-keygen -t rsa</p>

<p>cat id_rsa.pub >> authorized_keys</p>

<p>chmod g-w authorized_keys 设置权限 否则不起效</p>

<h5 id="解压到-app目录">解压到 app 目录</h5>

<p>/home/hadoop/app/hadoop-2.6.0-cdh5.15.1</p>

hadoop 目录基本了解

bin/ hadoop 客户端

etc/hadoop hadoop 相关配置目录

sbin 启动 hadoop 相关进程脚本

share 示例程序

<h4 id="配置-hadoop-env-sh">配置 hadoop-env.sh</h4>

<p>vim hadoop-env.sh</p>

<pre><code class="highlight-chroma">#配置 java_home

export JAVA_HOME=/usr/local/java/jdk1.8.0_221

</code></pre>

<h4 id="配置-core-site-xml">配置 core-site.xml</h4>

<p>配置 HDFS 文件默认系统主节点和端口</p>

<pre><code class="highlight-chroma"><configuration>

 <property>

 <name>

 <value>

 hdfs://hadoop:8020</value>

 </property&

</configuration

>

```
</span></span><span class="highlight-line"><span class="highlight-cl">  
</span></span></code></pre>
```

配置 hdfs-site.xml

因为是单节点，所以要调整副本系数

```
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">&lt;configuration&gt;
```

```
</span></span><span class="highlight-line"><span class="highlight-cl"> &lt;property&gt;
```

```
</span></span><span class="highlight-line"><span class="highlight-cl"> &lt;name&gt;  
dfs.replication&lt;/name&gt;
```

```
</span></span><span class="highlight-line"><span class="highlight-cl"> &lt;value&gt;  
1&lt;/value&gt;
```

```
</span></span><span class="highlight-line"><span class="highlight-cl"> &lt;/property&  
t;
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">&lt;/configuratio  
&gt;
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">
```

```
</span></span></code></pre>
```

还需要配置 `hadoop.tmp.dir` 临时目录放在我们 `/home/hadoop/app/tmp` 下

```
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">&lt;property&gt;
```

```
</span></span><span class="highlight-line"><span class="highlight-cl"> &lt;name&gt;had  
op.tmp.dir&lt;/name&gt;
```

```
</span></span><span class="highlight-line"><span class="highlight-cl"> &lt;value&gt;/h  
me/hadoop/app/tmp&lt;/value&gt;
```

```
</span></span><span class="highlight-line"><span class="highlight-cl"> &lt;/property&gt;  
</span></span><span class="highlight-line"><span class="highlight-cl">
```

```
</span></span></code></pre>
```

配置 datanode 机器地址

```
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">vim slaves 填入 hadoop
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">
```

```
</span></span></code></pre>
```

配置 hadoop 到环境变量

```
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">vim ~/.bash_profile
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">export HADOOP_  
OME=/home/hadoop/app/hadoop-2.6.0-cdh5.15.1
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">export PATH=$H  
DOOP_HOME/bin:$PATH
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">
```

```
</span></span></code></pre>
```

启动 hdfs

第一次执行的时候一定要格式化 hdfs 文件系统。

```
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">hdfs namenode -format
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">
```

```
</span></span></code></pre>
```

正式启动到 `hadoop/sbin` 目录下

```
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight  
cl">./start-dfs.sh
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">
```

```
</span></span></code></pre>
```

<p>浏览器查看 http://192.168.1.100/dfshealth.html#tab-overview</p>

<h4 id="停止-hdfs">停止 hdfs</h4>

```
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">./stop-dfs.sh
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">
```

```
</span></span></code></pre>
```

<h4 id="单独启动">单独启动</h4>

```
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">hadoop-daemon.sh start namenode
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">hadoop-daemon.h start datanode
```

```
</span></span><span class="highlight-line"><span class="highlight-cl">hadoop-daemon.h start secondarynamenode
```

```
</span></span></code></pre>
```