

# Maven的安装与配置

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## Maven的下载与配置

[参考链接](#)

下载地址：<https://maven.apache.org/download.cgi>

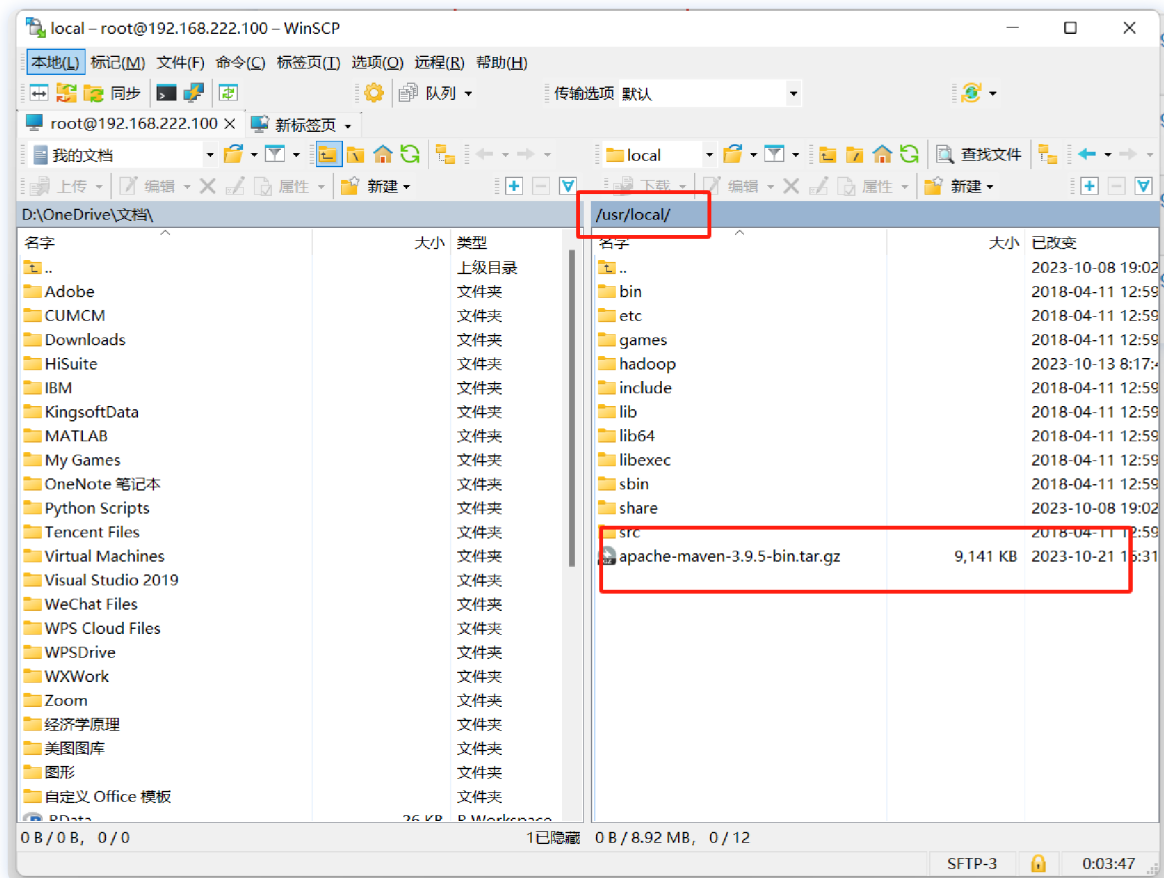
### Files

Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive and follow the [installation instructions](#). Use a source archive if you intend to build Maven yourself.

In order to guard against corrupted downloads/installations, it is highly recommended to [verify the signature](#) of the release bundles against the public [KEYS](#) used by the Apache Maven developers.

	Link	Checksums	Signature
Binary tar.gz archive	<a href="#">apache-maven-3.9.5-bin.tar.gz</a>	<a href="#">apache-maven-3.9.5-bin.tar.gz.sha512</a>	<a href="#">apache-maven-3.9.5-bin.tar.gz.asc</a>
Binary zip archive	<a href="#">apache-maven-3.9.5-bin.zip</a>	<a href="#">apache-maven-3.9.5-bin.zip.sha512</a>	<a href="#">apache-maven-3.9.5-bin.zip.asc</a>
Source tar.gz archive	<a href="#">apache-maven-3.9.5-src.tar.gz</a>	<a href="#">apache-maven-3.9.5-src.tar.gz.sha512</a>	<a href="#">apache-maven-3.9.5-src.tar.gz.asc</a>
Source zip archive	<a href="#">apache-maven-3.9.5-src.zip</a>	<a href="#">apache-maven-3.9.5-src.zip.sha512</a>	<a href="#">apache-maven-3.9.5-src.zip.asc</a>

将maven放到虚拟机里：



```
hadoop@localhost /|$ cd usr/local/  
hadoop@localhost local]$ ls  
apache-maven-3.9.5-bin.tar.gz  etc  hadoop  lib  libexec  share  
bin                           games  include  lib64  sbin  src
```

解压

```
sudo tar -zxvf apache-maven-3.9.5-bin.tar.gz
```

```
hadoop@localhost local]$ ls  
apache-maven-3.9.5  bin  games  include  lib64  sbin  src  
apache-maven-3.9.5-bin.tar.gz  etc  hadoop  lib  libexec  share
```

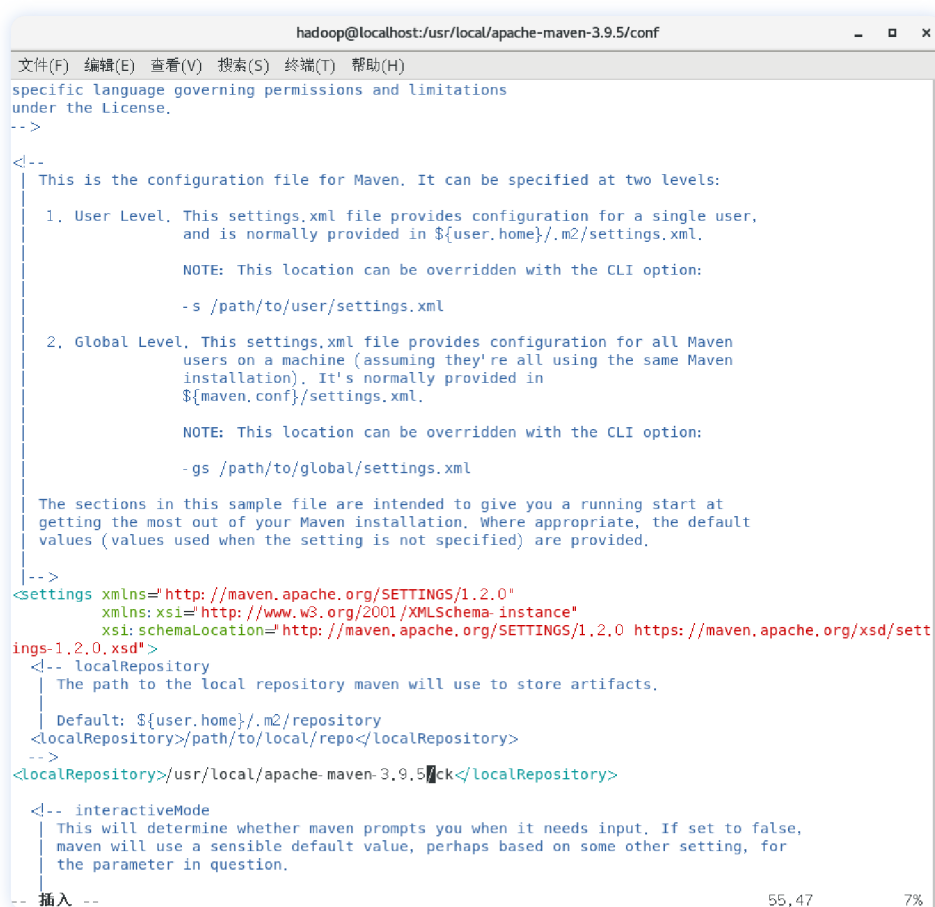
配置maven仓库，首先进入`cd apache-maven-3.9.5`目录，创建仓库存储目录，`mkdir ck`。如下图

```

[hadoop@localhost local]$ cd apache-maven-3.9.5/
[hadoop@localhost apache-maven-3.9.5]$ ls
bin boot conf lib LICENSE NOTICE README.txt
[hadoop@localhost apache-maven-3.9.5]$ mkdir ck
mkdir: 无法创建目录"ck": 权限不够
[hadoop@localhost apache-maven-3.9.5]$ sudo mkdir ck
[hadoop@localhost apache-maven-3.9.5]$ ls
bin boot ck conf lib LICENSE NOTICE README.txt

```

修改conf文件夹里的setting.xml



```

hadoop@localhost:/usr/local/apache-maven-3.9.5/conf
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
specific language governing permissions and limitations
under the License.
-->
<!--
This is the configuration file for Maven. It can be specified at two levels:

1. User Level. This settings.xml file provides configuration for a single user,
and is normally provided in ${user.home}/.m2/settings.xml.

NOTE: This location can be overridden with the CLI option:

-s /path/to/user/settings.xml

2. Global Level. This settings.xml file provides configuration for all Maven
users on a machine (assuming they're all using the same Maven
installation). It's normally provided in
${maven.conf}/settings.xml.

NOTE: This location can be overridden with the CLI option:

-gs /path/to/global/settings.xml

The sections in this sample file are intended to give you a running start at
getting the most out of your Maven installation. Where appropriate, the default
values (values used when the setting is not specified) are provided.
-->
<settings xmlns="http://maven.apache.org/SETTINGS/1.2.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.2.0 http://maven.apache.org/xsd/sett
ings-1.2.0.xsd">
  <!-- localRepository
The path to the local repository maven will use to store artifacts.
Default: ${user.home}/.m2/repository
<localRepository>/path/to/local/repo</localRepository>
-->
<localRepository>/usr/local/apache-maven-3.9.5/ck</localRepository>

  <!-- interactiveMode
This will determine whether maven prompts you when it needs input. If set to false,
maven will use a sensible default value, perhaps based on some other setting, for
the parameter in question.
-- 插入 --
55,47 7%

```

换成阿里云的源在setting中把原来的mirror换一下

```

1      <mirror>
2          <id>alimaven</id>
3          <name>aliyun maven</name>
4          <url>http://maven.aliyun.com/nexus/content/groups/public/</url>
5          <mirrorOf>central</mirrorOf>
6      </mirror>
7

```

添加环境变量

在bashrc中添加

```
1 export MAVEN_HOME=/usr/local/apache-maven-3.9.5
2 export PATH=$PATH:$MAVEN_HOME/bin
3
```

```
[hadoop@localhost conf]$ sudo vim ~/.bashrc
[hadoop@localhost conf]$ source ~/.bashrc
```

安装成功

```
[hadoop@localhost conf]$ source ~/.bashrc
[hadoop@localhost conf]$ mvn -v
Apache Maven 3.9.5 (57804ffe001d7215b5e7bcb531cf83df38f93546)
Maven home: /usr/local/apache-maven-3.9.5
Java version: 1.8.0_381, vendor: Oracle Corporation, runtime: /usr/lib/java-1.8.0/jdk1.8.0_381/jre
Default locale: zh_CN, platform encoding: UTF-8
OS name: "linux", version: "3.10.0-1160.99.1.el7.x86_64", arch: "amd64", family: "unix"
[hadoop@localhost conf]$
```

## 安装idea

解压:

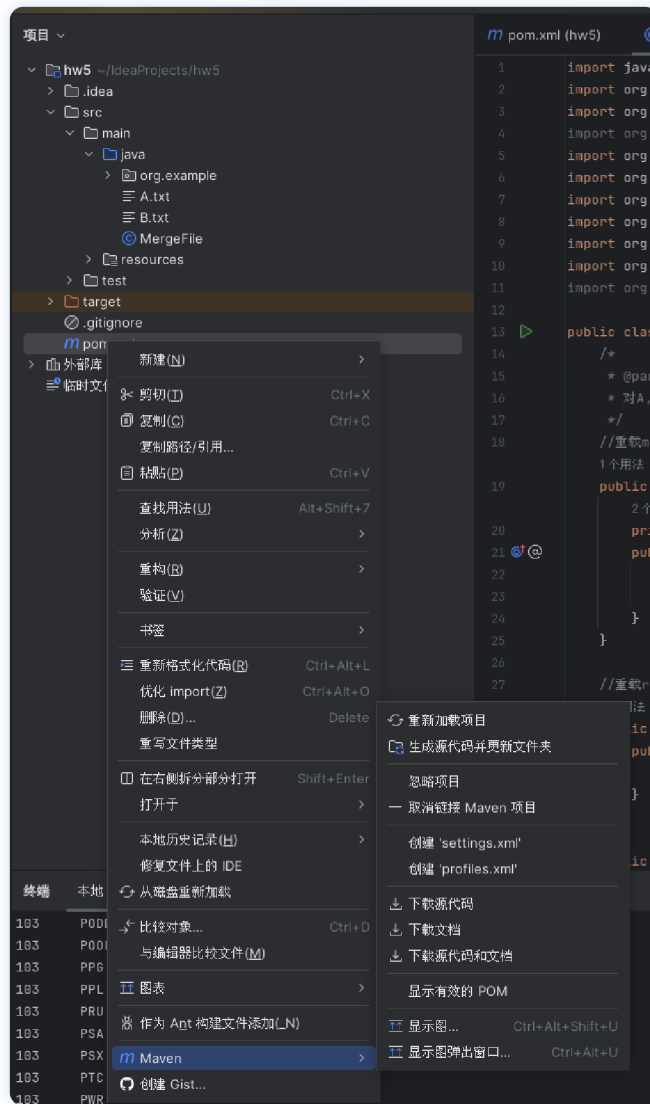
```
sudo tar -zxvf ideaIU-2023.2.3.tar.gz
```

```
[hadoop@localhost local]$ ls
apache-maven-3.9.5  hadoop      lib      share
bin                ideaIU-2023.2.3.tar.gz  lib64    src
etc                idea-IU-232.10072.27   libexec
games              include       sbin
[hadoop@localhost local]$ sudo baobab
[hadoop@localhost local]$ sudo rmi ideaIU-2023.2.3.tar.gz
sudo: rmi: 找不到命令
[hadoop@localhost local]$ sudo rm -ivrf ideaIU-2023.2.3.tar.gz
已删除 "ideaIU-2023.2.3.tar.gz"
[hadoop@localhost local]$ ls
apache-maven-3.9.5  etc        hadoop      include  lib64    sbin    src
bin                games      idea-IU-232.10072.27  lib      libexec  share
[hadoop@localhost local]$ sudo baobab
[hadoop@localhost local]$
```

进入 `idea-IU-232.10072.27/bin` 目录, 运行 `./idea.sh` 打开Idea

配置文件, 具体可见如下[链接](#)

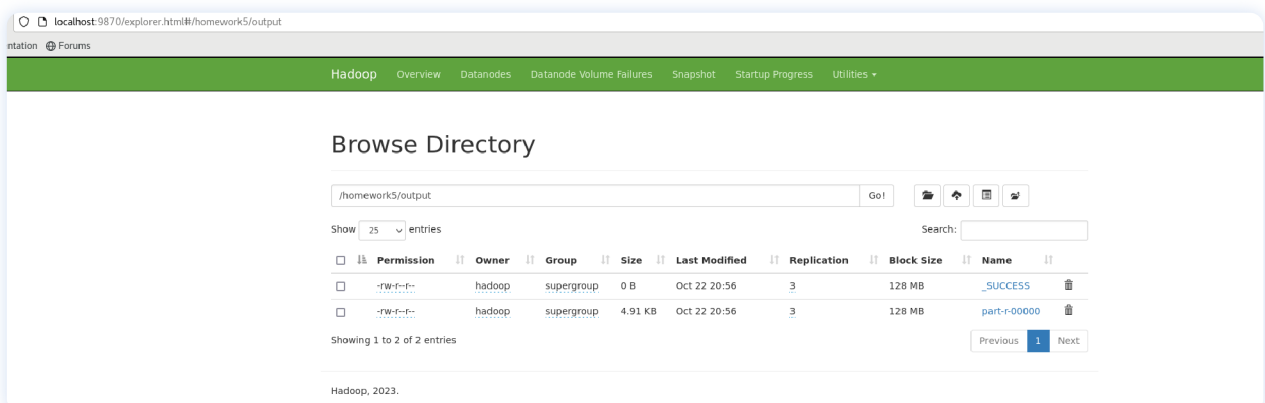
然后重新加载项目:



把文件输入配好，然后放到hadoop的filesystem中

- 1 | `hadoop fs mkdir <创建的文件夹>`
- 2 | `hadoop fs -put A.txt /homework5/input`
- 3 | `hadoop fs -put B.txt /homework5/input`

运行代码：然后就能看到结果了



```
[DEBUG] 2023-10-22 20:56:07,440 method:org.apache.hadoop.ipc.Client.stop(Client.java:1355)
Stopping client
[DEBUG] 2023-10-22 20:56:07,440 method:org.apache.hadoop.ipc.Client$Connection.close(Client.java:1287)
IPC Client (1331923253) connection to localhost/127.0.0.1:9000 from hadoop: closed
[DEBUG] 2023-10-22 20:56:07,441 method:org.apache.hadoop.ipc.Client$Connection.run(Client.java:1091)
IPC Client (1331923253) connection to localhost/127.0.0.1:9000 from hadoop: stopped, remaining connections 0
[DEBUG] 2023-10-22 20:56:07,441 method:org.apache.hadoop.hdfs.KeyProviderCache.invalidateCache(KeyProviderCache.java:110)
Invalidating all cached KeyProviders.
[DEBUG] 2023-10-22 20:56:07,441 method:org.apache.hadoop.util.ShutdownHookManager$1.run(ShutdownHookManager.java:97)
Completed shutdown in 0.004 seconds; Timeouts: 0
[DEBUG] 2023-10-22 20:56:07,450 method:org.apache.hadoop.util.ShutdownHookManager.shutdownExecutor(ShutdownHookManager.java:104)
ShutdownHookManager completed shutdown.

进程已结束，退出代码为 0
```

## 遇到的问题

### 虚拟机上安装idea的时候出现根目录内存不够的情况

这里我采用的解决方法比较简单，就是把根目录中的镜像删除了，最后腾出了5.5G的空间，最后就时间够了。