

MAVEN安装&配置

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<https://maven.apache.org/download.cgi>

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Apache Maven Project

http://maven.apache.org/

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Downloading Apache Maven 3.9.6

Apache Maven 3.9.6 is the latest release: it is the recommended version for all users.

System Requirements

Files

Java Development Kit (JDK)

Memory

Disk

Operating System

Maven 3.9+ requires JDK 8 or above to execute. It still allows you to build against 1.3 and other JDK versions by using toolchains.

No minimum requirement

Approximately 10MB is required for the Maven installation itself. In addition to that, disk space will be used for your local Maven repository. The size of your local repository will vary depending on usage but expect at least 500MB.

No minimum requirement. Start up scripts are included as shell scripts (tested on many Unix flavors) and Windows batch files.

Binary tar.gz archive

Binary zip archive

Source tar.gz archive

Source zip archive

Link

apche-maven-3.9.6-bin.tar.gz

apche-maven-3.9.6-bin.zip

apache-maven-3.9.6-src.tar.gz

apache-maven-3.9.6-src.zip

Checksums

apche-maven-3.9.6-bin.tar.gz.sha512

apache-maven-3.9.6-bin.zip.sha512

apache-maven-3.9.6-src.tar.gz.sha512

apache-maven-3.9.6-src.zip.sha512

Signature

apche-maven-3.9.6-bin.tar.gz.asc

apche-maven-3.9.6-bin.zip.asc

apche-maven-3.9.6-src.tar.gz.asc

apche-maven-3.9.6-src.zip.asc

3.9.6 Release Notes and Release Reference Documentation

检测到病毒存在风险

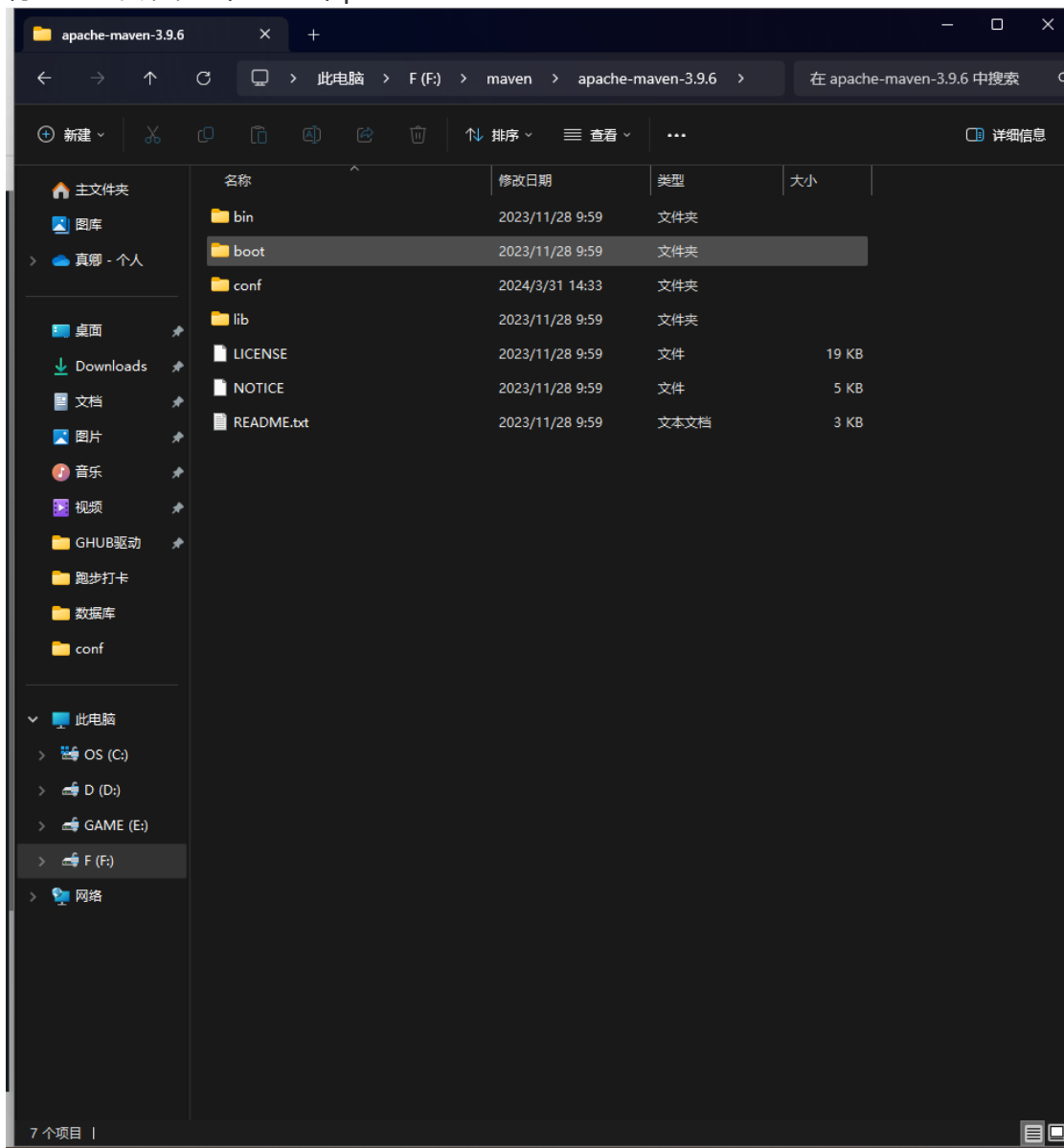
立即下载

极狐

极狐

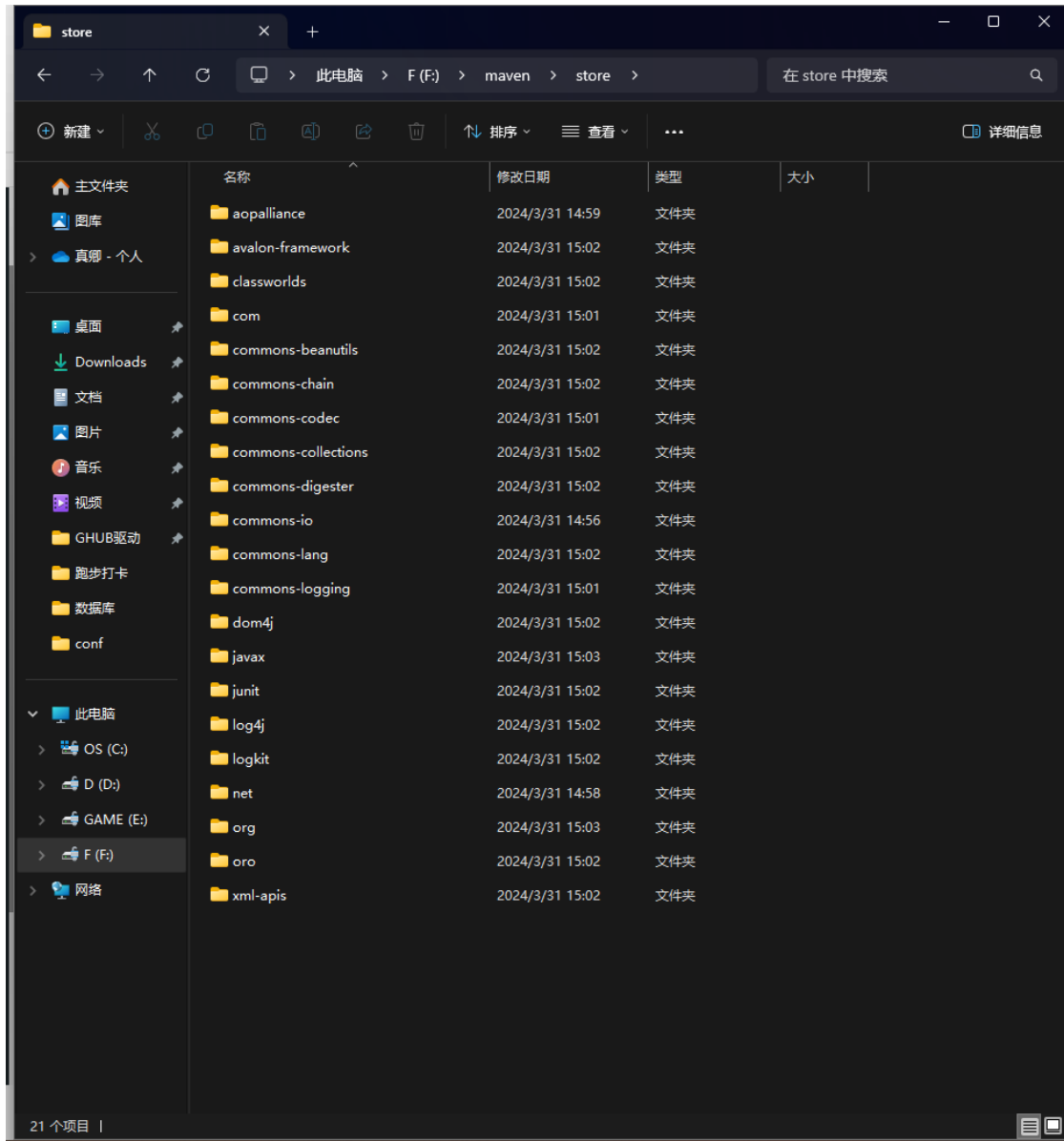
安装maven

将maven安装在F:\maven\apache-maven-3.9.6



创建本地仓库

将本地仓库创建在F:\maven\store



指定本地仓库

本地仓库默认值：用户家目录/.m2/repository。由于本地仓库的默认位置是在用户的家目录下，而家目录往往是在C盘，也就是系统盘。将来Maven仓库中jar包越来越多，仓库体积越来越大，可能会拖慢C盘运行速度，影响系统性能。所以将Maven的本地仓库放在F盘符下。

配置方式如下：

打开maven里的conf文件，打开setings.xml文件，配置本地仓库文件

```
<!-- 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>F:\maven\store</localRepository>
```

配置阿里云提供的镜像仓库

Maven下载jar包默认访问境外的中央仓库，速度很慢。改成阿里云提供的镜像仓库，访问国内网站，可以让Maven下载jar包的时候速度更快。

配置的方式是：

打开maven里的conf文件，修改setings.xml文件

```
<mirrors>
  <!-- mirror
  | Specifies a repository mirror site to use instead of a given repository. The repository that
  | this mirror serves has an ID that matches the mirrorOf element of this mirror. IDs are used
  | for inheritance and direct lookup purposes, and must be unique across the set of mirrors.
  |
  <mirror>
    <id>mirrorId</id>
    <mirrorOf>repositoryId</mirrorOf>
    <name>Human Readable Name for this Mirror.</name>
    <url>http://my.repository.com/repo/path</url>
  </mirror>
-->

  <mirrors>
    <mirror>
      <id>nexus-aliyun</id>
      <mirrorOf>central</mirrorOf>
      <name>Nexus aliyun</name>
      <url>http://maven.aliyun.com/nexus/content/groups/public</url>
    </mirror>
  </mirrors>

  <mirror>
    <id>maven-default-http-blocker</id>
    <mirrorOf>external:http:*</mirrorOf>
    <name>Pseudo repository to mirror external repositories initially using HTTP.</name>
    <url>http://0.0.0.0/</url>
    <blocked>true</blocked>
  </mirror>
</mirrors>
```

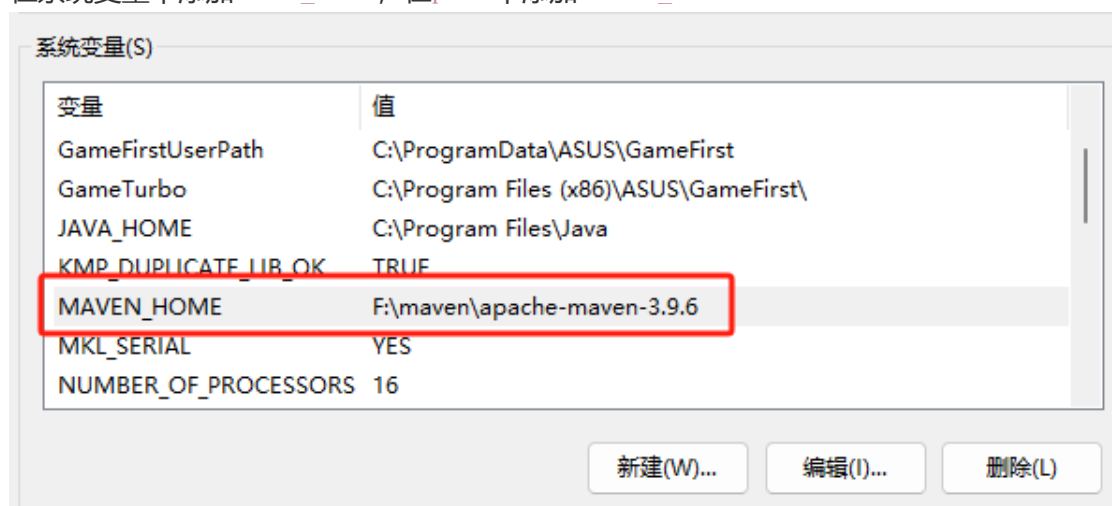
配置Maven工程的基础JDK版本

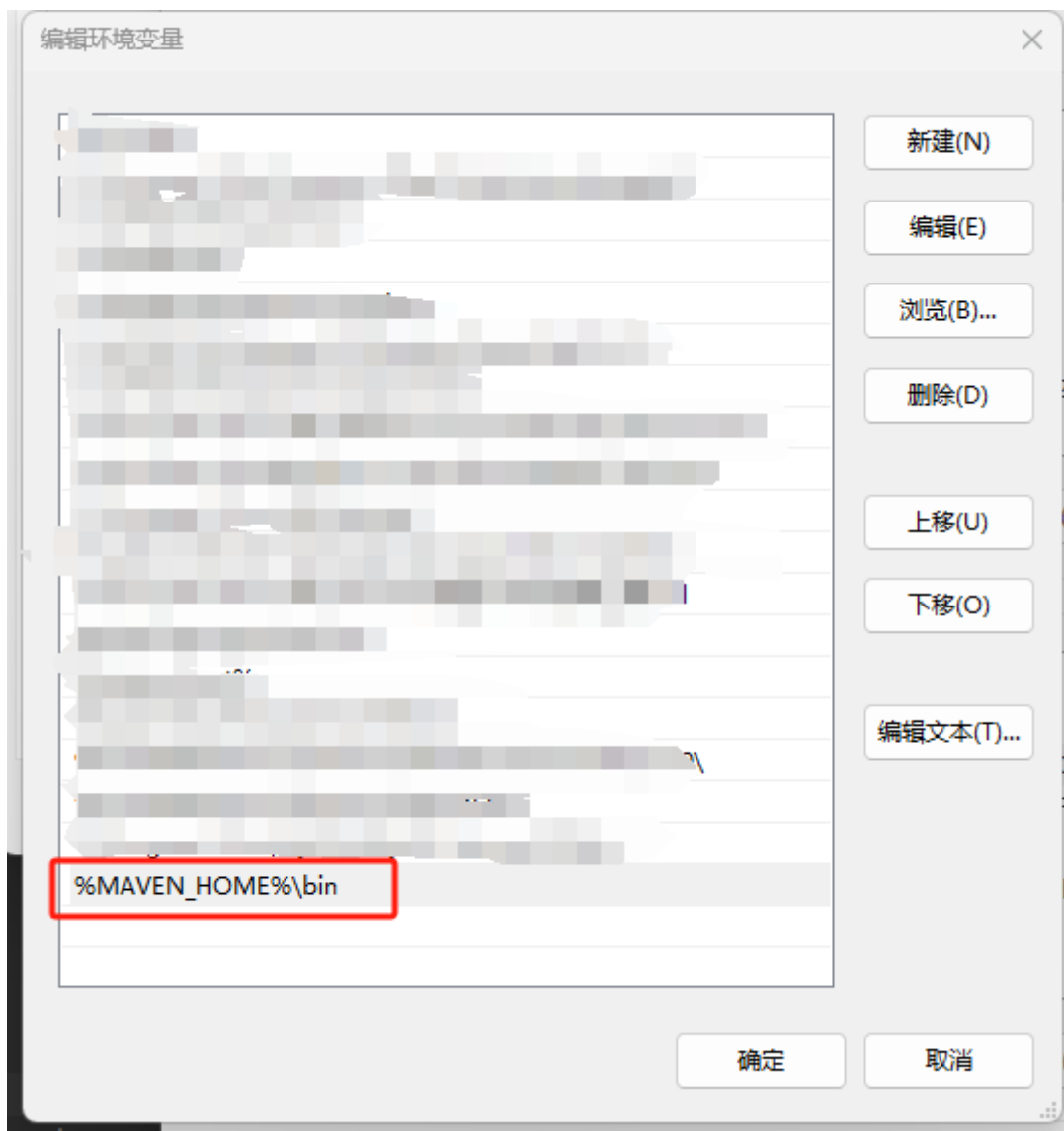
这里我用的是JDK-17.0，所以修改setings.xml文件

```
<profiles>
  <profile>
    <id>jdk-17.0</id>
    <activation>
      <activeByDefault>true</activeByDefault>
      <jdk>17.0</jdk>
    </activation>
    <properties>
      <maven.compiler.source>17.0</maven.compiler.source>
      <maven.compiler.target>17.0</maven.compiler.target>
      <maven.compiler.compilerVersion>17.0</maven.compiler.compilerVersion>
    </properties>
  </profile>
</profiles>
```

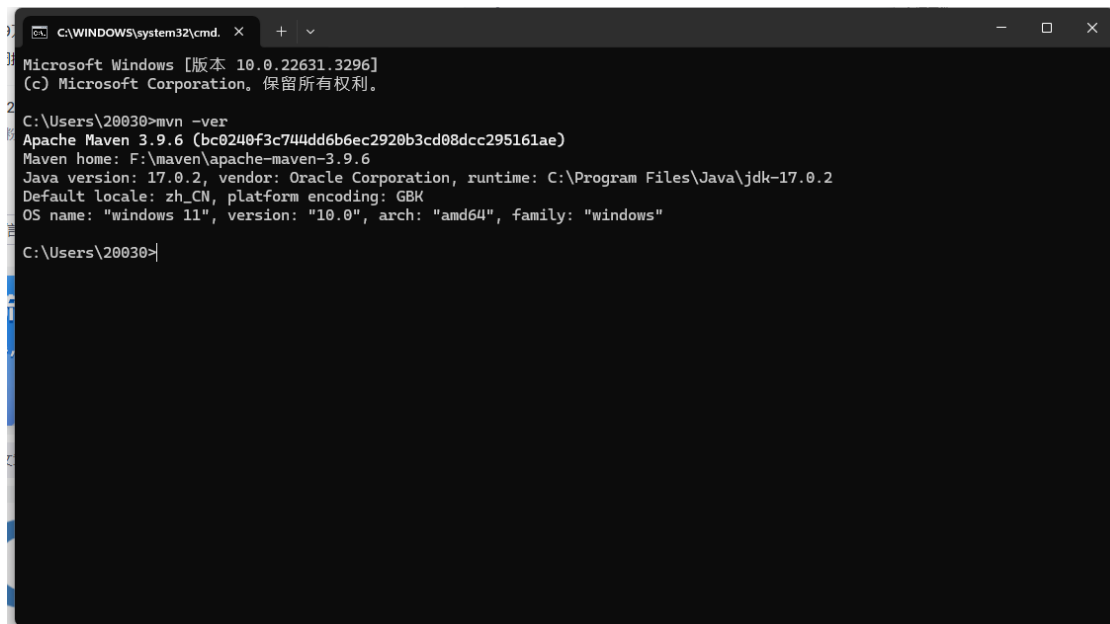
配置环境变量

在系统变量中添加MAVEN_HOME，在path 中添加%MAVEN_HOME%





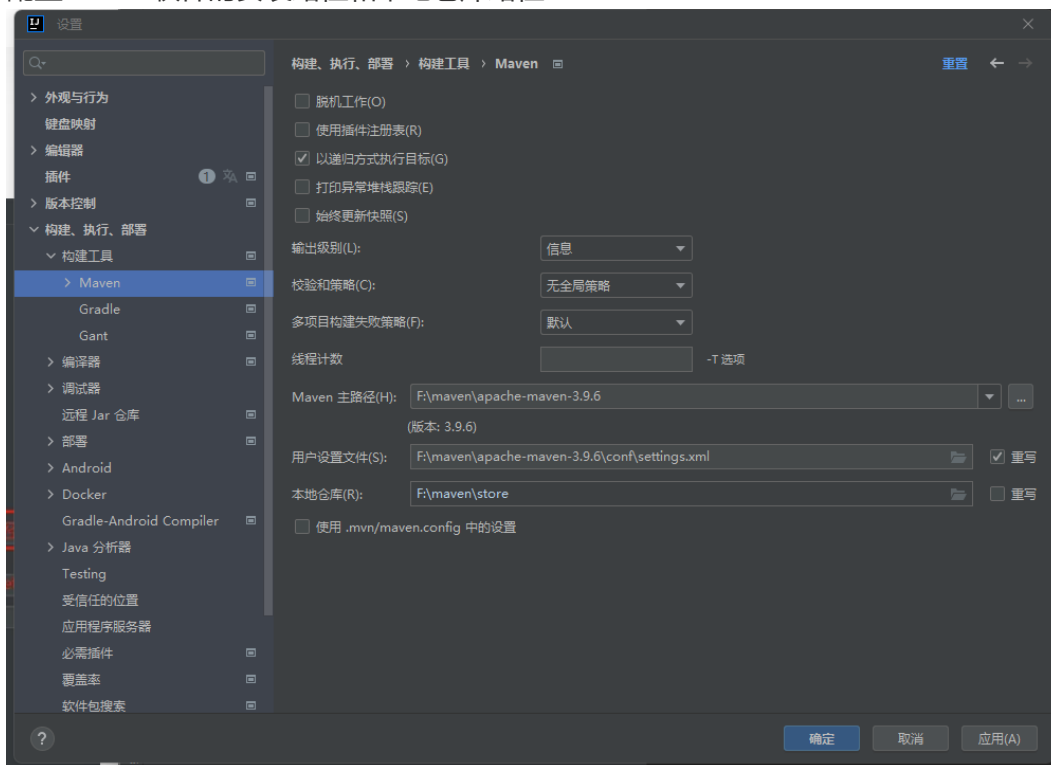
测试配置成功与否



可见配置成功

在IDEA中集成Maven

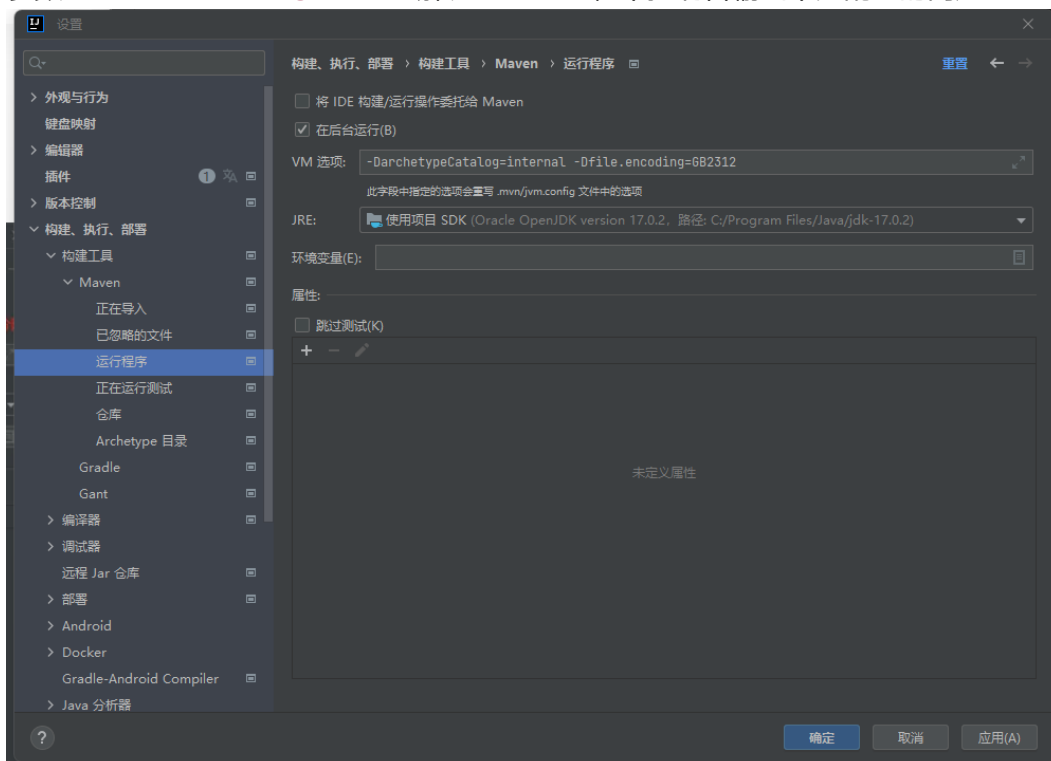
- 配置maven软件的安装路径和本地仓库路径



- 配置Maven的Runner参数

参数一: `-DarchetypeCatalog=internal` 解决使用骨架构建Maven项目时候会卡住的问题

参数二: `-Dfile.encoding=GB2312` 解决Maven工程中控制台输出中文乱码的问题



用maven编译Helloworld版的java程序

