

# AAMS-V10内嵌版的使用说明

## 1、下载产品介质

<https://pan.yunzhijia.com/s/MTE3NDE4NixkODJi#/share/206089789206708225>

<input checked="" type="checkbox"/>	文档	相关文档	2021-04-30 14:04	--
<input checked="" type="checkbox"/>	starter-2.x	支持springboot1.5版本或2.X版本	2020-10-19 14:27	--
<input checked="" type="checkbox"/>	starter-1.5	支持springboot1.5版本或2.X版本	2020-10-19 14:26	--
<input type="checkbox"/>	gmssl_examples.zip		2020-07-28 09:47	12.35 K
<input checked="" type="checkbox"/>	spring-boot_examples.zip	例子	2020-07-28 09:47	26.17 K
<input type="checkbox"/>	GmSSL.tar.zip		2020-07-28 09:47	6.27 M
<input checked="" type="checkbox"/>	AAMS-V10-embed.zip	AAMS-V10内嵌版	01-07 17:11	7.45 M
<input type="checkbox"/>	AAMS-V10.zip		01-07 17:11	34.02 M

## 2、安装各个软件包到本地库

- 解压AAMS-V10-embed.zip:

<input type="checkbox"/>	aas-dbc.jar	2022/1/7 16:07	Executable Jar File	311 KB
<input type="checkbox"/>	aas-embed-core.jar	2022/1/7 16:07	Executable Jar File	3,683 KB
<input type="checkbox"/>	aas-embed-el.jar	2022/1/7 16:07	Executable Jar File	246 KB
<input type="checkbox"/>	aas-embed-jasper.jar	2022/1/7 16:07	Executable Jar File	607 KB
<input type="checkbox"/>	aas-embed-websocket.jar	2022/1/7 16:07	Executable Jar File	259 KB
<input type="checkbox"/>	aas-util.jar	2022/1/7 16:07	Executable Jar File	253 KB
<input type="checkbox"/>	annotations-api.jar	2022/1/7 16:07	Executable Jar File	13 KB
<input type="checkbox"/>	ecj-4.12.jar	2022/1/7 16:07	Executable Jar File	2,804 KB
<input type="checkbox"/>	embed.readme.txt	2022/1/7 16:07	文本文档	4 KB
<input type="checkbox"/>	license.xml	2022/3/31 11:24	XML 文件	1 KB

- 安装各个软件包到本地库的命令如下: (embed.readme.txt中)

```

mvn install:install-file -Dfile=aas-embed-core.jar -
DgroupId=com.apusic.ams.embed -DartifactId=aas-embed-core -
Dversion=10.1 -Dpackaging=jar
mvn install:install-file -Dfile=aas-embed-el.jar -
DgroupId=com.apusic.ams.embed -DartifactId=aas-embed-el -Dversion=10.1 -
-Dpackaging=jar
mvn install:install-file -Dfile=aas-embed-websocket.jar -
DgroupId=com.apusic.ams.embed -DartifactId=aas-embed-websocket -
Dversion=10.1 -Dpackaging=jar
mvn install:install-file -Dfile=aas-embed-jasper.jar -
DgroupId=com.apusic.ams.embed -DartifactId=aas-embed-jasper -
Dversion=10.1 -Dpackaging=jar
mvn install:install-file -Dfile=aas-dbcj.jar -
DgroupId=com.apusic.ams.embed -DartifactId=aas-dbcj -Dversion=10.1 -
-Dpackaging=jar
mvn install:install-file -Dfile=aas-util.jar -
DgroupId=com.apusic.ams.embed -DartifactId=aas-util -Dversion=10.1 -
-Dpackaging=jar
mvn install:install-file -Dfile=ecj-4.12.jar -
DgroupId=com.apusic.ams.embed -DartifactId=ecj -Dversion=4.12 -
-Dpackaging=jar

```

```

[INFO] Installing D:\TEST\AAMS-V10-embed\aas-dbcj.jar to D:\software\Maven\repo\com\apusic\ams\embed\aas-dbcj\10.1\aas-dbcj-10.1.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.483 s
[INFO] Finished at: 2022-05-20T16:46:39+08:00
[INFO] -----

D:\TEST\AAMS-V10-embed>mvn install:install-file -Dfile=aas-util.jar -DgroupId=com.apusic.ams.embed -DartifactId=aas-util -Dversion=10.1 -Dpackaging=jar
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] --- maven-install-plugin:2.4:install-file (default-cli) @ standalone-pom ---
[INFO] Installing D:\TEST\AAMS-V10-embed\aas-util.jar to D:\software\Maven\repo\com\apusic\ams\embed\aas-util\10.1\aas-util-10.1.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.486 s
[INFO] Finished at: 2022-05-20T16:46:41+08:00
[INFO] -----

D:\TEST\AAMS-V10-embed>mvn install:install-file -Dfile=ecj-4.12.jar -DgroupId=com.apusic.ams.embed -DartifactId=ecj -Dversion=4.12 -Dpackaging=jar
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] --- maven-install-plugin:2.4:install-file (default-cli) @ standalone-pom ---
[INFO] Installing D:\TEST\AAMS-V10-embed\ecj-4.12.jar to D:\software\Maven\repo\com\apusic\ams\embed\ecj\4.12\ecj-4.12.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.487 s
[INFO] Finished at: 2022-05-20T16:46:42+08:00
[INFO] -----

```

- 执行完都显示 BUILD SUCCESS 就好
- Starter的注册: (以aams-spring-boot-starter-2.1.7.RELEASE举例)

```

mvn install:install-file -Dfile=aams-spring-boot-starter-
2.1.7.RELEASE.jar -DgroupId=com.apusic -DartifactId=aams-spring-boot-
starter -Dversion=2.1.7.RELEASE -Dpackaging=jar

```

```

D:\TEST\starter-2.x>mvn install:install-file -Dfile=aams-spring-boot-starter-2.1.7.RELEASE.jar -DgroupId=com.apusic -DartifactId=
aams-spring-boot-starter -Dversion=2.1.7.RELEASE -Dpackaging=jar
[INFO] Scanning for projects...
[INFO]
[INFO] < com.apusic:aams-spring-boot-starter >-----
[INFO] Building aams-spring-boot-starter 2.1.7.RELEASE
[INFO] [ jar ]-----
[INFO]
[INFO] --- maven-install-plugin:2.4:install-file (default-cli) @ aams-spring-boot-starter ---
[INFO] Installing D:\TEST\starter-2.x\aams-spring-boot-starter-2.1.7.RELEASE.jar to D:\software\Maven\repo\com\apusic\aams-spring
-boot-starter\2.1.7.RELEASE\aams-spring-boot-starter-2.1.7.RELEASE.jar
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 0.517 s
[INFO] Finished at: 2022-05-20T16:55:11+08:00
[INFO]

```

- 出现以上界面则表示注册成功

○ 说明：如果需要引入其他的\${AMS\_INSTALL}\lib 下的核心 jar，可以修改这里的 pom.xml 文件，重新运行下面的命令进行注册。

```

mvn install:install-file -Dfile=aams-spring-boot-starter-
2.1.7.RELEASE.jar -DgroupId=com.apusic -DartifactId=aams-spring-
boot-starter -Dversion=2.1.7.RELEASE -Dpackaging=jar -
DpomFile=pom.xml

```

- pom.xml内容:

```

<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.apusic</groupId>
  <artifactId>aams-spring-boot-starter</artifactId>
  <version>2.1.7.RELEASE</version>

  <description>Apusic Application Mico Server</description>
  <name>aams-spring-boot-starter</name>

  <build>
    <pluginManagement>
      <plugins>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-compiler-plugin</artifactId>
          <version>3.2</version>
          <configuration>
            <source>1.8</source>
            <target>1.8</target>
          </configuration>
        </plugin>
      </plugins>
    </pluginManagement>
  </build>

  <packaging>jar</packaging>

  <dependencies>
    <dependency>
      <groupId>javax.annotation</groupId>
      <artifactId>javax.annotation-api</artifactId>
      <version>1.3.2</version>
      <scope>compile</scope>

```

```

</dependency>
<dependency>
  <groupId>com.apusic.ams.embed</groupId>
  <artifactId>aas-embed-core</artifactId>
  <version>10.1</version>
  <scope>compile</scope>
</dependency>
<dependency>
  <groupId>com.apusic.ams.embed</groupId>
  <artifactId>aas-embed-el</artifactId>
  <version>10.1</version>
  <scope>compile</scope>
</dependency>
<dependency>
  <groupId>com.apusic.ams.embed</groupId>
  <artifactId>aas-embed-websocket</artifactId>
  <version>10.1</version>
  <scope>compile</scope>
</dependency>
<dependency>
  <groupId>com.apusic.ams.embed</groupId>
  <artifactId>aas-embed-jasper</artifactId>
  <version>10.1</version>
  <scope>compile</scope>
</dependency>
<dependency>
  <groupId>com.apusic.ams.embed</groupId>
  <artifactId>aas-dbc</artifactId>
  <version>10.1</version>
  <scope>compile</scope>
</dependency>
<dependency>
  <groupId>com.apusic.ams.embed</groupId>
  <artifactId>aas-util</artifactId>
  <version>10.1</version>
  <scope>compile</scope>
</dependency>
<dependency>
  <groupId>com.apusic.ams.embed</groupId>
  <artifactId>ecj</artifactId>
  <version>4.12</version>
  <scope>compile</scope>
</dependency>
</dependencies>
<!--
+++++
+ -->
  <!--+++++ Properties
+++++ -->
  <!--
+++++
+ -->
  <properties>
    <springboot.version>2.1.7.RELEASE</springboot.version>
    <maven.compile.encoding>UTF-8</maven.compile.encoding>
    <project.build.sourceEncoding>UTF-
8</project.build.sourceEncoding>
  </properties>

```

```
</project>
```

```
D:\TEST\starter-2.x>mvn install:install-file -Dfile=aams-spring-boot-starter-2.1.7.RELEASE.jar -DgroupId=com.apusic -DartifactId=aams-spring-boot-starter -Dversion=2.1.7.RELEASE -Dpackaging=jar -DpomFile=pom.xml
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.apusic:aams-spring-boot-starter >-----
[INFO] Building aams-spring-boot-starter 2.1.7.RELEASE
[INFO] [ jar ]
[INFO]
[INFO] --- maven-install-plugin:2.4:install-file (default-cli) @ aams-spring-boot-starter ---
[INFO] Installing D:\TEST\starter-2.x\aams-spring-boot-starter-2.1.7.RELEASE.jar to D:\software\Maven\repo\com\apusic\aams-spring-boot-starter\2.1.7.RELEASE\aams-spring-boot-starter-2.1.7.RELEASE.jar
[INFO] Installing D:\TEST\starter-2.x\pom.xml to D:\software\Maven\repo\com\apusic\aams-spring-boot-starter\2.1.7.RELEASE\aams-spring-boot-starter-2.1.7.RELEASE.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 0.515 s
[INFO] Finished at: 2022-05-20T16:53:43+08:00
[INFO]
```

### 3、参数配置说明

配置参数说明:

server:

aas:

```
max-threads: 500 # 最大线程数
min-spare-threads: 64 # 最小空闲数, 压测的时候可以设置跟最大线程数一样
max-http-header-size: 8192 # 最大请求头个数
max-http-post-size: 8192 # 最大请求体个数
connection-timeout: 60000 # 连接超时时间, 可设置大一些
max-connections: 50000 # 最大并发数, 压测时, 可设置
accept-count: 1024 # 最大并发数, 压测时, 可设置
max-swallow-size: 20971520 # 请求body
compression: true # 是否启用压缩
compression-min-size: 4096 # 超过该大小才压缩
compressable-mime-type:
```

text/html,text/plain,text/css,application/javascript,application/json,application/x-font-ttf,application/x-font-otf,image/svg+xml

```
max-keep-alive-timeout: 300000 # keepalive时间
```

```
max-keep-alive-requests: 100 # 限制keepalive时间连接个数, 1表示短链接, -1表示不
```

限制

```
disable-upload-timeout: true # 是否禁用上传超时
```

### 4、例子 1-chapter-1-spring-boot-quickstart的使用

1、由于 spring-boot-starter-web 插件默认带了 tomcat 的 starter, 所以在 pom.xml 中需要排除 tomcat 的 starter, 如下面的配置:

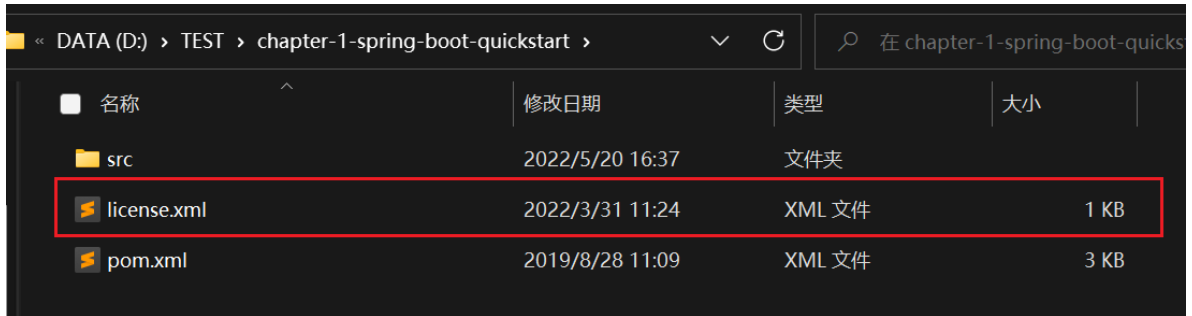
```
<!-- web 依赖 -->
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-web</artifactId>
  <exclusions>
    <exclusion>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-tomcat</artifactId>
    </exclusion>
  </exclusions>
</dependency>
```

2、去除tomcat依赖后, 加入aams依赖:

```
<dependency>
  <groupId>com.apusic</groupId>
  <artifactId>aams-spring-boot-starter</artifactId>
  <version>2.1.7.RELEASE</version>
</dependency>
```

注：以上两个步骤例子1中pom.xml已经引入，再构建相应产品包时借鉴即可。

### 3、放入授权文件license.xml：



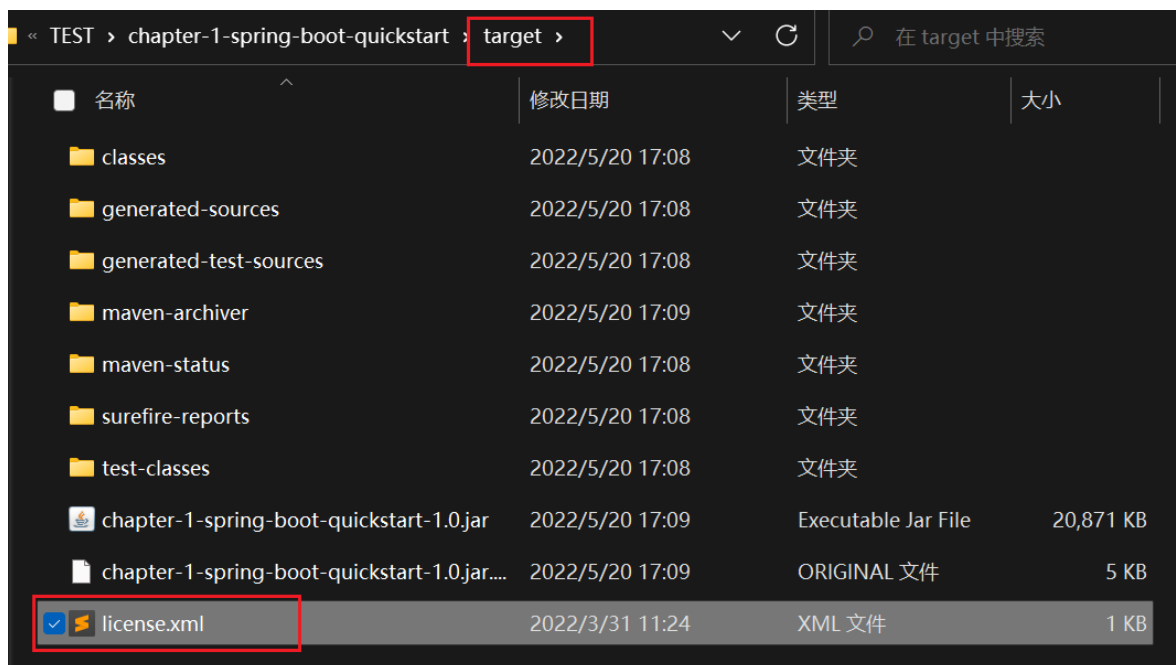
### 4、然后执行打包命令：

```
mvn package
```



### 5、切换到构建后的 target 目录，在该目录下打开终端，并运行如下命令进行运行：

由于当前目录在 target 下，需要把license.xml 文件拷贝到 target 目录下：



然后执行java -jar指令

```
java -jar chapter-1-spring-boot-quickstart-1.0.jar
```

```
D:\TEST\chapter-1-spring-boot-quickstart\target>java -jar chapter-1-spring-boot-quickstart-1.0.jar

:: Spring Boot ::
 (v2.1.3.RELEASE)

2022-05-20 17:11:07.729 INFO 8364 --- [main] demo.springboot.QuickStartApplication : Starting QuickStar
pplication v1.0 on LAPTOP-86MVK3VH with PID 8364 (D:\TEST\chapter-1-spring-boot-quickstart\target\chapter-1-spring-boo
quickstart-1.0.jar started by 14916 in D:\TEST\chapter-1-spring-boot-quickstart\target)
2022-05-20 17:11:07.731 INFO 8364 --- [main] demo.springboot.QuickStartApplication : No active profile
t, falling back to default profiles: default
2022-05-20 17:11:08.695 INFO 8364 --- [main] c.a.boot.web.embedded.ams.AasWebServer : Aas initialized wi
port(s): 8080 (http)
Apusic Application Server Agile Edition V10.0
Licensed to 金蝶天燕测试
Licensed from 2022-03-02 to 2022-06-30
CPUs limited to 0
```

启动成功后，在浏览器中输入：<http://localhost:8080/hello>，如下字段出来则表示成功：

Hello, Spring Boot!