**Arthas安装部署手册**

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Polaris

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更新说明

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## 一、Arthas 热更工具的架构

Arthas Agent通过-javaagent方式与应用绑定,然后与Tunnel Server建立长连接.

## 二、Arthas 热更工具的编译

1. 下载配置apache-maven
2. 进入项目根目录(本文档所在目录)
3. 执行mvn package
4. TunnelSever 的jar包所在目录:

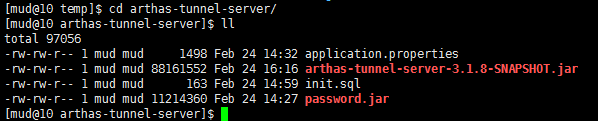
tunnel-server\target\

1. 其它jar包所在目录

packaging\target\arthas-3.1.8-SNAPSHOT-bin\

## 三、Tunnel Server部署

### Tunnel Server服务器文件



* arthas-tunnel-server-3.1.8-SNAPSHOT.jar

tunnel server 的jar包. tunnel server是标准的Springboot工程,可通过命令java –jar运行

* application.properties

tunnel server 的配置文件

* init.sql

tunnel server运行后添加tunnel server用户,用户名/密码:polaris/polaris,新用户可自行添加

* password.jar

生成上一步sql中用户密码串的工具(java -jar password.jar 你的密码)

#### Step1.修改配置

* application.properties

server.port=8043  
arthas.server.port=7777  
arthas.server.ssl=true  
#SSL  
server.ssl.key-store=classpath:arthas.keystore  
server.ssl.key-store-password=Mechanist.Arthas@  
server.ssl.keyStoreType=jks  
server.ssl.keyAlias=arthas  
  
management.endpoints.web.exposure.include=\*  
  
  
spring.security.user.name=arthas  
  
spring.thymeleaf.prefix=classpath:/static/  
spring.thymeleaf.suffix=.html  
spring.thymeleaf.mode=LEGACYHTML5  
spring.thymeleaf.encoding=UTF-8  
spring.thymeleaf.cache=false  
spring.resources.chain.strategy.content.enabled=true  
spring.resources.chain.strategy.content.paths=/\*\*  
###DATASOURCE (DataSourceAutoConfiguration & DataSourceProperties)  
spring.datasource.driverClassName=com.mysql.cj.jdbc.Driver  
spring.datasource.url=jdbc:mysql://localhost:3306/arthas?useUnicode=true&characterEncoding=UTF-8&useSSL=false&serverTimezone=UTC  
spring.datasource.username=root  
spring.datasource.password=123456  
spring.datasource.maxActive=100  
spring.datasource.maxIdle=8  
spring.datasource.minIdle=8  
spring.datasource.initialSize=5  
spring.datasource.validationQuery=SELECT 1 FROM DUAL  
spring.datasource.testWhileIdle=true  
spring.datasource.testOnBorrow=false  
spring.datasource.testOnReturn=false  
# 配置间隔多久才进行一次检测，检测需要关闭的空闲连接，单位是毫秒  
spring.datasource.timeBetweenEvictionRunsMillis=60000  
# 配置一个连接在池中最小生存的时间，单位是毫秒  
spring.datasource.minEvictableIdleTimeMillis=300000  
# 配置获取连接等待超时的时间  
spring.datasource.maxWait=60000  
  
spring.jpa.hibernate.ddl-auto=update  
spring.jpa.show-sql=true

需要修改的内容

* server.port=8043

Tunnel Server的Web服务器的端口

* spring.datasource.url=jdbc:mysql://localhost:3306/arthas?useUnicode=true&characterEncoding=UTF-8&useSSL=false&serverTimezone=UTC

Tunnel Server的数据库信息

#### Step2.启动服务

执行java -jar arthas-tunnel-server-3.1.8-SNAPSHOT.jar

#### Step3.初始化用户

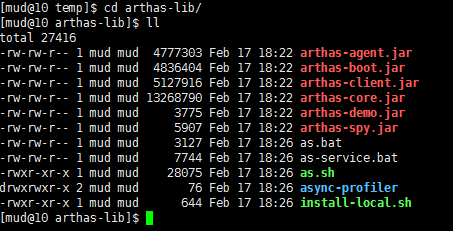
按init.sql中的insert语句,在Tunnel Server的数据库中插入用户.

用户的密码可用password.jar生成

## 四、应用启动

#### Step1.准备arthas-lib

将arhars编译生成的文件放入arthas-lib,并上传到应用所在的服务器上



#### Step2.修改arthas-config

将arthas-config上传到应用程序同级的目录上,并修改ArthasConfig.properties文件

#arthas-core.jar的完整路径  
arthas.core.jar.path=/home/arthas/arthas-core.jar  
#artas服务器监听IP  
arthas.core.listen.ip=localhost  
#http tunnel server监听端口  
arthas.core.listen.http.port=8564  
#shell tunnel server监听端口  
arthas.core.listen.telnet.port=3659  
#tunnel server地址,格式ws://10.0.0.30:7777/ws  
arthas.core.tunnel.server.addr=wss://10.0.0.30:7777/ws  
#agentId  
arthas.core.agent.id=agentId  
#tunnel session timeout  
arthas.core.session.timeout=18000

* arthas.core.jar.path

Step1中arthas-lib下arthas-core.jar文件的绝对路径

* arthas.core.listen.ip

本arthas agent监听的IP

* arthas.core.tunnel.server.addr

修改tunnel Server的IP,端口默认是7777

因为采用了SSL连接,所以前面协议是wss,如果是普通的websocket则是ws

* arthas.core.agent.id

给本应用起一个名字进行区分

#### Step3.启动应用

在原有起动命令上添加参数 –javaagent:arthas-agent.jar的完整路径,例如:

java -jar -javaagent:/home/mud/temp/arthas-lib/arthas-agent.jar UserServer.jar

## 五、热更

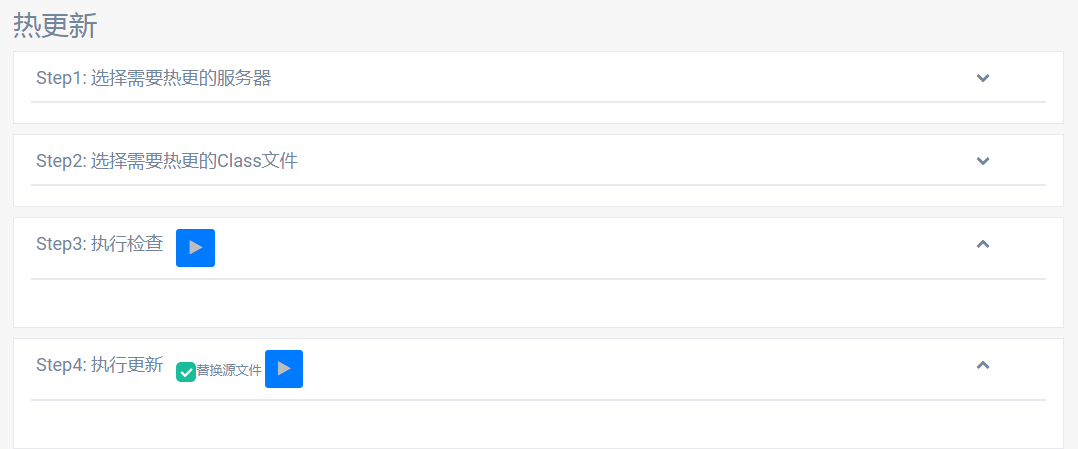
#### Step1.访问Tunnel Server

通过浏览器访问https://IP:端口/login,如

<https://10.0.0.121:8043/login>

#### Step2.进行热更

按页面步骤进行热更



注意第4步,如果不希望替换class文件,要把”替换文件”的勾去掉.

## 六、Mud项目各组件端口及agentId命名规划

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| --- |
| CentralServer:  arthas.core.listen.http.port=8110  #shell tunnel server监听端口  arthas.core.listen.telnet.port=3610  #agentId  arthas.core.agent.id=central\_server  PlatServer:  arthas.core.listen.http.port=8120  #shell tunnel server监听端口  arthas.core.listen.telnet.port=3620  #agentId  arthas.core.agent.id=plat\_server  LoginServer:  arthas.core.listen.http.port=8130  #shell tunnel server监听端口  arthas.core.listen.telnet.port=3630  #agentId  arthas.core.agent.id=login\_server\_1  LoginCheckServer:  arthas.core.listen.http.port=8140  #shell tunnel server监听端口  arthas.core.listen.telnet.port=3640  #agentId  arthas.core.agent.id=loginCheck\_server  GateServer:  arthas.core.listen.http.port=8150  #shell tunnel server监听端口  arthas.core.listen.telnet.port=3650  #agentId  arthas.core.agent.id=gate\_server\_1  RankingServer:  arthas.core.listen.http.port=8160  #shell tunnel server监听端口  arthas.core.listen.telnet.port=3660  #agentId  arthas.core.agent.id=ranking\_server\_001  UserServer:  arthas.core.listen.http.port=8170  #shell tunnel server监听端口  arthas.core.listen.telnet.port=3670  #agentId  arthas.core.agent.id=user\_server\_001 |