## 当Spring Boot遇上Arthas 深入细节和排查问题的实践

#### 历志轩/横云附岭

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#### Arthas/图尔萨斯

- Alibab开源的Java诊断工具
- 9月份开源, Star 8000+
- Github: <a href="https://github.com/alibaba/arthas">https://github.com/alibaba/arthas</a>
- Wiki: <a href="https://alibaba.github.io/arthas/">https://alibaba.github.io/arthas/</a>
- Arthas开源交流QQ群: 916328269
- · Arthas开源交流钉钉群: 21965291

#### Arthas快速开始

\$ wget https://alibaba.github.io/arthas/arthas-boot.jar
\$ java -jar arthas-boot.jar --repo-mirror aliyun

```
hengyunabcdeMacBook-Air:tmp hengyunabc$ java -jar arthas-boot.jar
* [1]: 22342
 [2]: 42200 ClientDemoApplication
 [3]: 42142 ServerDemoApplication
[INFO] arthas home: /Users/hengyunabc/.arthas/lib/3.0.5/arthas
[INFO] Try to attach process 42142
[INFO] Attach process 42142 success.
[INFO] arthas-client connect 127.0.0.1 3658
       wiki: https://alibaba.github.io/arthas
version: 3.0.5
pid: 42142
time: 2018-11-30 21:13:50
```

### Tips

- 使用阿里云下载 --repo-mirror aliyun
- 键盘Up/Down匹配历史
- Tab补全
- 快捷键: keymap
- Pipeline/grep
- Gitee文档镜像: <a href="https://arthas.gitee.io">https://arthas.gitee.io</a>

### demo-arthas-spring-boot

https://github.com/hengyunabc/spring-boot-inside/tree/master
/demo-arthas-spring-boot

#### 案例一、HTTP请求500/404/401

- http://localhost:8080/user/0 500
   watch com.example.demo.arthas.user.UserController \* '{params, throwExp} –e
- http://localhost:8080/a.txt 404
   trace javax.servlet.Servlet \* > servlet.txt # 结果在 ~/logs/arthas-cache/
- http://localhost:8080/admin 401
   trace javax.servlet.Filter \*
- 动态修复代码/测试
   redefine –p UserController.class

#### 案例二、应用日志刮打

- UserController的logger是什么实现?
   ognl '@com.example.demo.arthas.user.UserController@logger'
- 动态修改logger级别
   ognl '@org.slf4j.LoggerFactory@getLogger("root")
   .setLevel(@ch.qos.logback.classic.Level@DEBUG)'
- 获取logback的配置文件
   ognl '#map1=@org.slf4j.LoggerFactory@getLogger("root").loggerContext.objectMap,
   #map1.get("CONFIGURATION\_WATCH\_LIST")'
- 查找冲突的logback.xml/log4j.properties classloader -c 18b4aac2 -r logback.xml
- · tomcat的日志为什么打印不出来?

#### 案例三、深入细节

- Spring Boot应用的Classloader结构 classloader –t classloader -a -c 758f7d25
- jad反编绎jsp的实现
  jad org.apache.jsp.jsp.hello\_jsp
- tt 获取Spring Contexttt -t

org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter invokeHandlerMethod

tt -i 1000 -w 'target.getApplicationContext()'

#### 成为Arthas的Contributor

- 登记用户 <a href="https://github.com/alibaba/arthas/issues/395">https://github.com/alibaba/arthas/issues/395</a>
- · 修正错别字/改进文档
- 完善翻译/翻译user case
- 新的Command

#### Arthas钉钉/QQ交流群

#### Arthas开源交流群

534人











Alibaba Arthas开源交流群 扫一扫二维码,加入群聊。

# Thank you!