



当Spring Boot遇上Arthas

深入细节和排查问题的实践

陈志轩/横云断岭

- 阿里巴巴-中间件技术部
- Spring Boot/Dubbo/Arthas
- Github: hengyunabc
- Email: hengyunabc@gmail.com
- Blog: <http://hengyunabc.github.io/>
- 微信 : iam_312461311
- 公众号 : 横云断岭的专栏



Arthas/阿尔萨斯

- Alibab开源的Java诊断工具
- 9月份开源，Star 8000+
- Github: <https://github.com/alibaba/arthas>
- Wiki: <https://alibaba.github.io/arthas/>
- 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  
3  
[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
```

0.0.0.0

```
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: <https://arthas.gitee.io>



demo-artahas-spring-boot

<https://github.com/hengyunabc/spring-boot-inside/tree/master/demo-artahas-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.Servlet *
- 动态修复代码/测试
redefine -p UserController.class



案例二、应用日志乱打

- 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
- jad jsp的实现
- tt 获取spring context



成为Arthas的Contributor

- 登记用户 <https://github.com/alibaba/arthas/issues/395>
- 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



扫一扫群二维码，立刻加入该群。



Alibaba Arthas开源交流群

扫一扫二维码，加入群聊。

The background is a dark blue, almost black, surface covered with a 3D pattern of hexagons. These hexagons are raised, creating a textured, geometric effect. The lighting is subtle, highlighting the edges of the hexagons and giving them a sense of depth. The overall aesthetic is modern and technological.

Thank you !