

JAVA生态的微服务无侵入链路追踪

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1. 无侵入链路追踪APM工具

应用性能管理(Application Performance Management,APM)

是指对企业的关键业务应用进行监测、优化，提高企业应用的可靠性和质量，保证用户得到良好的服务，降低IT总拥有成本，为企业带来更多的商业利益。

(1)监测应用性能

(2)定位分析性能问题

(3)优化系统性能

(4)链路调用追踪

2. 如何快速在Rainbond部署 pinpoint

基于Rainbond云市一键安装。

3. 在war启动过程中插入agent的讲解

- 事先将pinpoint-agent资源打进镜像。
- 启动关键代码：

pinpoint-agent.sh

```
CATALINA_OPTS="$CATALINA_OPTS -javaagent:$PINPOINT_AGENT_PATH/pinpoint-bootstrap-${PINPOINT_AGENT_VERSION}-SNAPSHOT.jar"
```

```
CATALINA_OPTS="$CATALINA_OPTS -Dpinpoint.agentId=${AGENT_ID}"
```

```
CATALINA_OPTS="$CATALINA_OPTS -Dpinpoint.applicationName=${APP_NAME}"
```

3. 在war启动过程中插入agent的讲解

docker-entrypoint.sh

```
if [ "$ENABLE_APM" == "true" ];then
    COLLECTOR_TCP_HOST=${COLLECTOR_TCP_HOST:-127.0.0.1}
    COLLECTOR_TCP_PORT=${COLLECTOR_TCP_PORT:-9994}
    COLLECTOR_UDP_SPAN_LISTEN_HOST=${COLLECTOR_UDP_SPAN_LISTEN_HOST:-127.0.0.1}
    COLLECTOR_UDP_SPAN_LISTEN_PORT=${COLLECTOR_UDP_SPAN_LISTEN_PORT:-9996}
    COLLECTOR_UDP_STAT_LISTEN_HOST=${COLLECTOR_UDP_STAT_LISTEN_HOST:-127.0.0.1}
    COLLECTOR_UDP_STAT_LISTEN_PORT=${COLLECTOR_UDP_STAT_LISTEN_PORT:-9995}
    sed -i "2 a. /usr/local/tomcat/bin/pinpoint-agent.sh" /usr/local/tomcat/bin/catalina.sh
    sed -i -r -e "s/(profiler.collector.ip)=.*\/\1=${COLLECTOR_TCP_HOST}\/" \
        -e "s/(profiler.collector.tcp.port)=.*\/\1=${COLLECTOR_TCP_PORT}\/" \
        -e "s/(profiler.collector.span.port)=.*\/\1=${COLLECTOR_UDP_SPAN_LISTEN_PORT}\/" \
        -e "s/(profiler.collector.stat.port)=.*\/\1=${COLLECTOR_UDP_STAT_LISTEN_PORT}\/" /usr/local/pinpoint-agent/pinpoint.config
    export APP_NAME=${APP_NAME:-${SERVICE_NAME:-${HOSTNAME}}}
    export AGENT_ID=${APP_NAME}-${POD_IP}
fi
```

4. 在jar启动过程中插入agent的讲解

- 事先将pinpoint-agent资源放进源码仓库。

- 启动脚本内容：

```
#!/bin/bash
#通过特定环境变量定义是否启动 pinpoint agent
if [[ $ENABLE_APM == "true" ]];then
    AGENT_ID=${SERVICE_ID:0:10}
    PINPOINT_AGENTN_VERSION=1.7.2
    PINPOINT_AGENT_PATH=/app/pinpoint
    #将 pinpoint agent 启动参数加入到 $JAVA_OPTS 中
    export JAVA_OPTS="$JAVA_OPTS -javaagent:${PINPOINT_AGENT_PATH}/pinpoint-bootstrap-${PINPOINT_AGENTN_VERSION}-
    SNAPSHOT.jar -Dpinpoint.agentId=${AGENT_ID}-${SERVICE_ID:0:10}} -Dpinpoint.applicationName=${APP_NAME:-${SERVICE_NAME:-
    $HOSTNAME}}}"
fi

PORT=${PORT:-5000}

sleep ${PAUSE:-0}
#最终启动命令
exec java -Dserver.port=$PORT $JAVA_OPTS -jar target/*.jar
```

Spring Boot with MySQL demo for Rainbond

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70 commits 3 branches 0 releases 5 contributors Apache-2.0

Branch: master New pull request Create new file Upload files Find File Clone or download

This branch is 20 commits ahead, 1 commit behind goodrain-apps:master. Pull request Compare

guox	start pinpoint agent with en env ENABLE_APM	Latest commit e563d97 40 minutes ago
.settings	start pinpoint agent with en env ENABLE_APM	40 minutes ago
pinpoint	ADD pinpoint-agent	2 hours ago
src/main	Update home.html	8 months ago
.classpath	ADD pinpoint-agent	2 hours ago
.gitignore	Added idea files ot ignore list	4 years ago
.project	[REV] 文档及配置文件	a year ago
Dockerfile.bak	Rename Dockerfile to Dockerfile.bak	8 months ago
LICENSE.txt	Add Apache License	4 years ago
Procfile	create new Procfile	4 months ago
README.md	[FIX] 修改图片地址	a year ago
new_file_for_test	Create new_file_for_test	4 months ago
pom.xml	Update pom.xml	a year ago

dazuimao1990 / **spring-boot-mysql-demo**

forked from goodrain-apps/spring-boot-mysql-demo

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Code

Pull requests 0

Projects 0

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Branch: master

spring-boot-mysql-demo / pinpoint /

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History

This branch is 20 commits ahead, 1 commit behind goodrain-apps:master.

Pull request Compare

guox ADD pinpoint-agent

Latest commit fd8bcb2 2 hours ago

..

boot

ADD pinpoint-agent

2 hours ago

lib

ADD pinpoint-agent

2 hours ago

plugin

ADD pinpoint-agent

2 hours ago

script

ADD pinpoint-agent

2 hours ago

tools

ADD pinpoint-agent

2 hours ago

pinpoint-bootstrap-1.7.2-SNAPSHOT.jar

ADD pinpoint-agent

2 hours ago

pinpoint-real-env-lowoverhead-sample.config

ADD pinpoint-agent

2 hours ago

pinpoint.config

ADD pinpoint-agent

2 hours ago



我是郭逊，
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