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浅谈skywalking的TraceSegmentServiceClient 原创

 朱柿子
 2020-03-23 23:12:53

 ②草标签
 编程技术
 java
 面試
 阅读数 1006



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本文参考原文-ඓ http://bjbsair.com/2020-03-22/tech-info/5102.html 序

本文主要研究一下skywalking的TraceSegmentServiceClient



TracingContextListener

skywalking-6.6.0/apm-sniffer/apm-agent-core/src/main/java/org/apache/skywalking/apm/agent/core/context/TracingContextListener.java

```
    public interface TracingContextListener {
    void afterFinished(TraceSegment traceSegment);
    }
```

• TracingContextListener定义了afterFinished方法,其参数为TraceSegment

TraceSegment

skywalking-6.6.0/apm-sniffer/apm-agent-core/src/main/java/org/apache/skywalking/apm/agent/core/context/trace/ TraceSegment.java

```
public class TraceSegment {
2
          private ID traceSegmentId;
3.
4
5.
          private List<TraceSegmentRef> refs;
          private List<AbstractTracingSpan> spans;
7
Ω
          private DistributedTraceIds relatedGlobalTraces;
9
10
          private boolean ignore = false:
11.
12.
13.
          private boolean isSizeLimited = false;
14.
          private final long createTime;
```

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```
this.spans = new LinkedList<AbstractTracingSpan>();
              this.relatedGlobalTraces = new DistributedTraceIds();
              this.relatedGlobalTraces.append(new NewDistributedTraceId());
21.
              this.createTime = System.currentTimeMillis();
23.
24.
          public void ref(TraceSegmentRef refSegment) {
25
              if (refs == null) {
26.
                  refs = new LinkedList<TraceSegmentRef>();
27.
              }
28.
              if (!refs.contains(refSegment)) {
29.
                  refs.add(refSegment);
30.
31.
32.
          }
33.
34.
          public void relatedGlobalTraces(DistributedTraceId distributedTraceId) {
35.
              relatedGlobalTraces.append(distributedTraceId);
36.
37.
38.
          public void archive(AbstractTracingSpan finishedSpan) {
              spans.add(finishedSpan);
39.
40.
          }
41.
42.
          public TraceSegment finish(boolean isSizeLimited) {
              this.isSizeLimited = isSizeLimited;
43.
44.
              return this;
45.
46.
47.
          public ID getTraceSegmentId() {
48.
              return traceSegmentId;
49.
          public int getServiceId() {
51.
52.
              return RemoteDownstreamConfig.Agent.SERVICE_ID;
53.
54.
55.
          public boolean hasRef() {
              return !(refs == null || refs.size() == 0);
56.
57.
58.
          public List<TraceSegmentRef> getRefs() {
59.
60.
              return refs;
61.
62.
          public List<DistributedTraceId> getRelatedGlobalTraces() {
63.
              return relatedGlobalTraces.getRelatedGlobalTraces();
64.
65.
          }
66.
          public boolean isSingleSpanSegment() {
67.
68.
              return this.spans != null && this.spans.size() == 1;
69.
          }
70.
          public boolean isIgnore() {
71.
              return ignore;
72.
74
75.
          public void setIgnore(boolean ignore) {
76.
              this.ignore = ignore;
77
78.
          public UpstreamSegment transform() {
79.
              UpstreamSegment.Builder upstreamBuilder = UpstreamSegment.newBuilder();
80.
              for (DistributedTraceId distributedTraceId : getRelatedGlobalTraces()) {
81.
82.
                  upstreamBuilder = upstreamBuilder.addGlobalTraceIds(distributedTraceId.toUniqueId());
83.
84
              SegmentObject.Builder traceSegmentBuilder = SegmentObject.newBuilder();
85.
               * Trace Segment
```

文章目录

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```
91.
                                              // SpanObject
                                              for (AbstractTracingSpan span : this.spans) {
 92.
                                                           traceSegmentBuilder.addSpans(span.transform());
 94
 95
                                              trace Segment Builder.set Service Id (Remote Downstream Config. Agent. SERVICE\_ID); \\
 96.
                                              trace Segment Builder.set Service Instance Id (Remote Downstream Config. Agent. SERVICE\_INSTANCE\_ID) and the set of the set of the second se
                                              traceSegmentBuilder.setIsSizeLimited(this.isSizeLimited);
 97.
 98.
                                              upstreamBuilder.setSegment(traceSegmentBuilder.build().toByteString());
 99.
                                              return upstreamBuilder.build();
100.
                                 }
102.
                                 @Override
103.
                                 public String toString() {
104.
105.
                                              return "TraceSegment{" +
                                                           "traceSegmentId='" + traceSegmentId + '\'' +
106.
107.
                                                           ", refs=" + refs +
                                                           ", spans=" + spans +
108.
109.
                                                           ", relatedGlobalTraces=" + relatedGlobalTraces +
                                                           '}';
110.
111.
                                 }
112.
113.
                                 public int getApplicationInstanceId() {
114.
                                              return RemoteDownstreamConfig.Agent.SERVICE_INSTANCE_ID;
115.
                                 }
116.
117.
                                 public long createTime() {
118.
                                              return this.createTime;
119.
120.
                   }
```

• TraceSegment定义了traceSegmentId、refs、spans、relatedGlobalTraces等属性;它提供了ref、relatedGlobalTraces、archive、finish、transform等方法

IConsumer

skywalking-6.6.0/apm-commons/apm-datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/src/main/java/org/apache/skywalking/apache/skywalki

```
1. public interface IConsumer<T> {
2.     void init();
3.
4.     void consume(List<T> data);
5.
6.     void onError(List<T> data, Throwable t);
7.
8.     void onExit();
9. }
```

• IConsumer定义了init、consume、onError、onExit方法

TraceSegmentServiceClient

skywalking-6.6.0/apm-sniffer/apm-agent-core/src/main/java/org/apache/skywalking/apm/agent/core/remote/Trace SegmentServiceClient.java

```
    @DefaultImplementor
    public class TraceSegmentServiceClient implements BootService, IConsumer<TraceSegment>, TracingConstructor
    private static final ILog logger = LogManager.getLogger(TraceSegmentServiceClient.class);
    private static final int TIMEOUT = 30 * 1000;
    private long lastLogTime;
    private long segmentUplinkedCounter;
```

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```
private volatile GRPCChannelStatus status = GRPCChannelStatus.DISCONNECT;
12
13.
                    public void prepare() throws Throwable {
14
                            ServiceManager.INSTANCE.findService(GRPCChannelManager.class).addChannelListener(this);
16
17
18.
                    @Override
                    public void boot() throws Throwable {
19.
                            lastLogTime = System.currentTimeMillis();
                            segmentUplinkedCounter = 0;
21.
22.
                            segmentAbandonedCounter = 0;
                            carrier = new DataCarrier<TraceSegment>(CHANNEL_SIZE, BUFFER_SIZE);
23.
                             carrier.setBufferStrategy(BufferStrategy.IF_POSSIBLE);
24.
25.
                             carrier.consume(this, 1);
26.
                    }
27.
28.
                    @Override
29.
                    public void onComplete() throws Throwable {
30.
                            TracingContext.ListenerManager.add(this);
31.
                    }
32.
33.
                    @Override
34.
                    public void shutdown() throws Throwable {
35.
                             TracingContext.ListenerManager.remove(this);
36.
                             carrier.shutdownConsumers();
37.
38.
39.
                    @Override
40.
                    public void init() {
41
42
43
                    @Override
44
45.
                    public void consume(List<TraceSegment> data) {
                            if (CONNECTED.equals(status)) {
46.
                                     final GRPCStreamServiceStatus status = new GRPCStreamServiceStatus(false);
47.
                                     StreamObserver<UpstreamSegment> upstreamSegmentStreamObserver = serviceStub.withDeadl:
48.
49.
                                             public void onNext(Commands commands) {
                                                      ServiceManager.INSTANCE.findService(CommandService.class).receiveCommand(commandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandCommandComman
51.
                                             }
53.
54
                                             @Override
                                             public void onError(Throwable throwable) {
                                                      status.finished();
56
                                                      if (logger.isErrorEnable()) {
                                                              logger.error(throwable, "Send UpstreamSegment to collector fail with a grp
58.
59
                                                      ServiceManager.INSTANCE.findService(GRPCChannelManager.class).reportError(thro
61.
                                             }
62.
63.
                                             @Override
                                             public void onCompleted() {
64.
                                                      status.finished();
66
67
                                     });
68
69
                                     try {
                                             for (TraceSegment segment : data) {
70.
                                                      UpstreamSegment upstreamSegment = segment.transform();
71.
                                                      upstreamSegmentStreamObserver.onNext(upstreamSegment);
72
73.
                                             }
74.
                                     } catch (Throwable t) {
75.
                                             logger.error(t, "Transform and send UpstreamSegment to collector fail.");
76.
                                     }
77.
                                     upstreamSegmentStreamObserver.onCompleted();
```

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```
} else {
                   segmentAbandonedCounter += data.size();
83
84
85
86
              printUplinkStatus();
87
          }
89
          private void printUplinkStatus() {
              long currentTimeMillis = System.currentTimeMillis();
90
              if (currentTimeMillis - lastLogTime > 30 * 1000) {
91.
                   lastLogTime = currentTimeMillis;
92.
93.
                   if (segmentUplinkedCounter > 0) {
94.
                       logger.debug("{} trace segments have been sent to collector.", segmentUplinkedCour
95
                       segmentUplinkedCounter = 0;
96
97.
                   if (segmentAbandonedCounter > 0) {
98.
                       logger.debug("{} trace segments have been abandoned, cause by no available channel
99
                       segmentAbandonedCounter = 0;
                   }
              }
          }
104.
          @Override
105.
          public void onError(List<TraceSegment> data, Throwable t) {
106.
              logger.error(t, "Try to send {} trace segments to collector, with unexpected exception.",
107.
108.
109.
          @Override
110.
          public void onExit() {
112.
113.
114.
          @Override
          public void afterFinished(TraceSegment traceSegment) {
115.
116.
              if (traceSegment.isIgnore()) {
117.
                   return:
118.
              if (!carrier.produce(traceSegment)) {
119.
120.
                   if (logger.isDebugEnable()) {
121.
                       logger.debug("One trace segment has been abandoned, cause by buffer is full.");
122.
              }
124.
          }
125.
126.
          @Override
          public void statusChanged(GRPCChannelStatus status) {
127.
128.
              if (CONNECTED.equals(status)) {
                   Channel channel = ServiceManager.INSTANCE.findService(GRPCChannelManager.class).getCha
129.
                   serviceStub = TraceSegmentReportServiceGrpc.newStub(channel);
              this.status = status;
133.
          }
134.
      }
```

TraceSegmentServiceClient实现了BootService、IConsumer、TracingContextListener、GRPCChannelListener r接口; 其prepare方法往GRPCChannelManager注册自身的channelListener; 其boot方法设置lastLogTime, 实例化DataCarrier,并设置其consumer为自身; 其onComplete方法执行TracingContext.ListenerManager.add(this); 其shutdown方法执行TracingContext.ListenerManager.remove(this)以及carrier.shutdownConsumers(); 其consume方法在status为CONNECTED的时候执行upstreamSegmentStreamObserver.onNext(upstreamSegment)、upstreamSegmentStreamObserver.onCompleted()以及status.wait4Finish(); 其afterFinished方法执行carrier.produce(traceSegment); 其statusChanged设置serviceStub及status

ConsumerThread

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```
public class ConsumerThread<T> extends Thread {
2.
          private volatile boolean running;
3.
          private IConsumer<T> consumer;
4.
          private List<DataSource> dataSources;
5.
          private long consumeCycle;
6.
7.
          ConsumerThread(String threadName, IConsumer<T> consumer, long consumeCycle) {
              super(threadName):
8.
9.
              this.consumer = consumer;
              running = false;
10.
11.
              dataSources = new ArrayList<DataSource>(1);
              this.consumeCycle = consumeCycle;
12.
13.
          }
14.
15.
16.
           * add whole buffer to consume
17.
           * @param sourceBuffer
18.
19.
          void addDataSource(QueueBuffer<T> sourceBuffer) {
20.
              this.dataSources.add(new DataSource(sourceBuffer));
21
22.
          }
23.
          @Override
24.
25.
          public void run() {
26.
              running = true;
28.
              final List<T> consumeList = new ArrayList<T>(1500);
29.
              while (running) {
30.
                  if (!consume(consumeList)) {
                       try {
                           Thread.sleep(consumeCycle);
32
                      } catch (InterruptedException e) {
33
                      }
34
35.
                  }
              }
36.
37.
              // consumer thread is going to stop
38.
              // consume the last time
39.
40.
              consume(consumeList);
41.
42.
              consumer.onExit();
43.
          }
44.
45.
          private boolean consume(List<T> consumeList) {
46.
              for (DataSource dataSource : dataSources) {
                  dataSource.obtain(consumeList);
47
48.
              }
49.
50.
              if (!consumeList.isEmpty()) {
51.
                  try {
                       consumer.consume(consumeList);
52.
                  } catch (Throwable t) {
53.
54.
                      consumer.onError(consumeList, t);
55.
                  } finally {
56.
                       consumeList.clear();
57.
                  }
58.
                  return true;
59
              }
60.
              return false;
61.
          }
62.
          void shutdown() {
63.
64.
              running = false;
65.
          }
66.
```

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• ConsumerThread继承了Thread,其run方法会循环执行consume(consumeList),跳出循环时会再次执行consume(consumeList),最后执行consumer.onExit();consume方法会遍历dataSources,执行其dataSource.obtain (consumeList),然后在consumeList不为空的时候执行consumer.consume(consumeList)方法

ConsumeDriver

skywalking-6.6.0/apm-commons/apm-datacarrier/src/main/java/org/apache/skywalking/apm/commons/datacarrier/r/consumer/ConsumeDriver.java

```
public class ConsumeDriver<T> implements IDriver {
2
          private boolean running;
3.
          private ConsumerThread[] consumerThreads;
4
          private Channels<T> channels;
5
         private ReentrantLock lock;
6
7.
          public ConsumeDriver(String name, Channels<T> channels, Class<? extends IConsumer<T>> consumer
              long consumeCycle) {
8.
9.
              this(channels, num):
10.
              for (int i = 0; i < num; i++) {
                  consumerThreads[i] = new ConsumerThread("DataCarrier." + name + ".Consumser." + i + "
11.
12.
                  consumerThreads[i].setDaemon(true);
              }
13.
          }
14.
15.
          public ConsumeDriver(String name, Channels<T> channels, IConsumer<T> prototype, int num, long
16.
17.
              this(channels, num);
18.
              prototype.init();
19.
              for (int i = 0; i < num; i++) {
                  consumerThreads[i] = new ConsumerThread("DataCarrier." + name + ".Consumser." + i + "
20
                  consumerThreads[i].setDaemon(true);
21.
              }
22.
23.
          }
24.
25.
          private ConsumeDriver(Channels<T> channels, int num) {
26.
              running = false;
27.
28.
              this.channels = channels;
29.
              consumerThreads = new ConsumerThread[num];
30.
              lock = new ReentrantLock();
31.
32
          private IConsumer<T> getNewConsumerInstance(Class<? extends IConsumer<T>> consumerClass) {
33
34.
              try {
                  IConsumer<T> inst = consumerClass.newInstance();
35.
                  inst.init();
36.
37.
                  return inst;
              } catch (InstantiationException e) {
38.
39.
                  throw new ConsumerCannotBeCreatedException(e);
              } catch (IllegalAccessException e) {
40.
                  throw new ConsumerCannotBeCreatedException(e);
41.
42.
43.
          }
44
          @Override
45.
```

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```
}
50.
              try {
                  lock.lock();
                  this.allocateBuffer2Thread();
                  for (ConsumerThread consumerThread: consumerThreads) {
54
                       consumerThread.start();
                  }
                  running = true;
56.
              } finallv {
57
58.
                  lock.unlock();
59.
          }
61.
62.
          @Override
          public boolean isRunning(Channels channels) {
63.
              return running;
64.
65.
66.
          private void allocateBuffer2Thread() {
67.
68.
              int channelSize = this.channels.getChannelSize();
69.
               * if consumerThreads.length < channelSize
70.
               * each consumer will process several channels.
71.
72.
               * if consumerThreads.length == channelSize
73.
               * each consumer will process one channel.
74.
75.
76.
               * if consumerThreads.length > channelSize
               * there will be some threads do nothing.
77.
               */
78
79.
              for (int channelIndex = 0; channelIndex < channelSize; channelIndex++) {</pre>
80.
                  int consumerIndex = channelIndex % consumerThreads.length;
                  consumerThreads[consumerIndex].addDataSource(channels.getBuffer(channelIndex));
81.
              }
82
83.
84.
          }
85.
          @Override
86.
87.
          public void close(Channels channels) {
88.
              try {
                  lock.lock();
89.
                  this.running = false;
90
91.
                  for (ConsumerThread consumerThreads) {
92.
                       consumerThread.shutdown();
93.
                  }
              } finally {
94
                  lock.unlock();
95
96.
              }
97.
          }
98.
     }
```

• ConsumeDriver实现了IDriver接口,其ConsumeDriver会创建num个ConsumerThread; 其begin方法会执行allo cateBuffer2Thread,给每个consumerThread添加dataSource,然后执行consumerThread.start(); 其close方法会执行consumerThread.shutdown()

小结

TraceSegmentServiceClient实现了BootService、IConsumer、TracingContextListener、GRPCChannelListener接口; 其prepare方法往GRPCChannelManager注册自身的channelListener; 其boot方法设置lastLogTime,实例化DataCarrier,并设置其consumer为自身;其onComplete方法执行TracingContext.ListenerManager.add(this);其shutdown方法执行TracingContext.ListenerManager.remove(this)以及carrier.shutdownConsumers();其consume方法在status为CONNECTED的时候执行upstreamSegmentStreamObserver.onNext(upstreamSegment)、upstream SegmentStreamObserver.onCompleted()以及status.wait4Finish();其afterFinished方法执行carrier.produce(trace Segment);其statusChanged设置serviceStub及status



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本文以8.1.0为例 下载地址 http://skywalking.apache.org/downloads/ 解压 配置 config目录 配置文件 config/applic...



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Skywalking系列博客2-Skywalking使用

本文探讨如何使用Skywalking监控应用。 Skywalking有多种使用方式,目前最流行(也是最强大)的使用方式是基础



SkyWalking链路监控 (一): SkyWalking快速搭建

简介 当分布式系统服务比较多,特别是微服务,出现故障就很难排查。所以需要借助APM 系统进行排查(Applic...



SkyWalking快速接入

任何技术和理念都将不能成为解决一切问题的银弹,有的只是权衡和选择"点击上方蓝色字体,关注我 在上一篇 ..



springboot使用skywalking

skywalking安装参照本篇文章 javascript:void(0) 复制agent文件 从skywalking的agent目录,复制到本地某个目录...



helm部署SkyWalking

克隆chart到本地 git clone https://github.com/apache/skywalking-kubernetes cd skywalking-kubernetes/chart helm repo add elas...

SkyWalking 简单使用

Apache SkyWalking 分布式系统的应用程序性能监视工具,专为微服务、云原生架构和基于容器(Docker、K8s、Mesos)架构...

Skywalking-05: 在Skywalking RocketBot上添加监控图表

在 Skywalking RocketBot 上添加监控图表 效果图 该图的一些配置信息如下: 标题为: JVM Thread State Count ...





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写文章

快速学习-Skywalking原理

4.Skywalking原理 4.1 java agent原理 上文中我们知道,要使用Skywalking去监控服务,需要在其 VM 参数中添加 .



快速学习-skywalking入门

对于APM不了解的同学请先查看上一篇skywalking概述 1.2 什么是Skywalking 1.2.1 Skywalking概述 根据官方的解.



APM系统SkyWalking介绍

公司最近在构建服务化平台,需要上线APM系统,本篇文章简单的介绍SkyWalking APM APM全称Application Performance Ma...

skywalking搭建与使用

前言 在分布式环境中,对于服务<mark>的</mark>监控与链路追踪变得越来越重要,简单来说,相比单体应用,分布式环境下<mark>的</mark>...



Skywalking部署及使用

Skywalking部署及使用前言首先有必要说明一下为什么使用skywalking。我对zipkin、cat和skywalking这几个较为...



如何开启Apache SkyWalking的自监控?

1. 开启Prometheus遥测数据默认情况下, 遥测功能 (telemetry) 是关闭的(selector 为 none), 像这样: telemetry: .



Zipkin之外的选择: Skywalking vs Pinpoint

说明:本次对比基于skywalking-6.0.0-GA和Pinpoint-1.8.2 (截止2019-02-19最新版本)。另外,我们这次技术选型直接否定...

Skywalking系列博客6-手把手教你编写 Skywalking 插件

在正式进入编写环节之前,建议先花一点时间了解下javaagent(这是JDK 5引入的一个玩意儿,最好了解下其工..



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