

Skywalking ui页面功能

菜单栏



仪表盘：查看被监控服务的运行状态；

拓扑图：以拓扑图的方式展现服务之间的关系，并以此为入口查看相关信息；

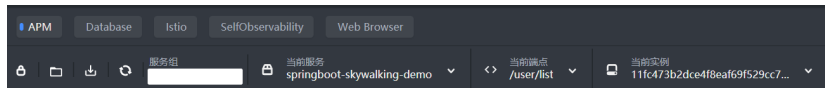
追踪：以接口列表的方式展现，追踪接口内部调用过程；

性能剖析：对端点进行采样分析，并可查看堆栈信息；

告警：触发告警的告警列表，包括服务失败率，请求超时等；

自动刷新：刷新当前页面数据内容；

控制栏



第一栏：不同内容主题的监控面板，应用性能管理/数据库/容器等；

第二栏：操作，包括 编辑/导出当前数据/倒入展示数据/不同服务端点筛选展示；

第三栏：不同纬度展示，全局/服务/实例/端点；

展示栏

Global全局维度

第一栏：Global、Service、Instance、Endpoint不同展示面板；

Services load：服务每分钟请求数；

Slow Services：慢响应服务，单位ms；

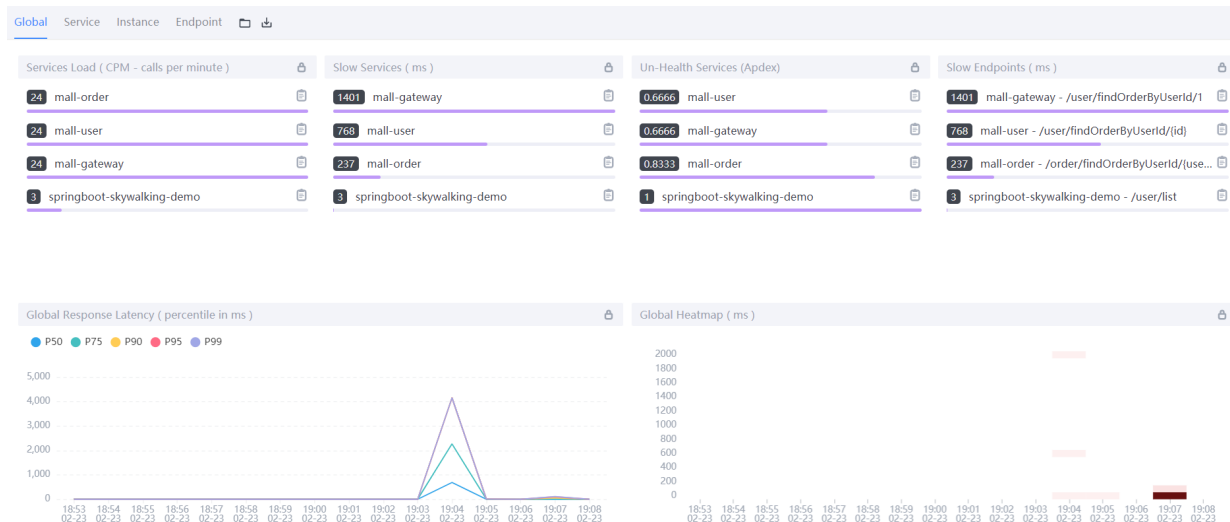
Un-Health services(Apdex): Apdex性能指标，1为满分；

Slow Endpoint：慢响应端点，单位ms；

Global Response Latency：百分比响应延时，不同百分比的延时时间，单位ms；

Global Heatmap：服务响应时间热力分布图，根据时间段内不同响应时间的数量显示颜色深度；

底部栏：展示数据的时间区间，点击可以调整；



Service服务维度

Service Apdex (数字) :当前服务的评分；

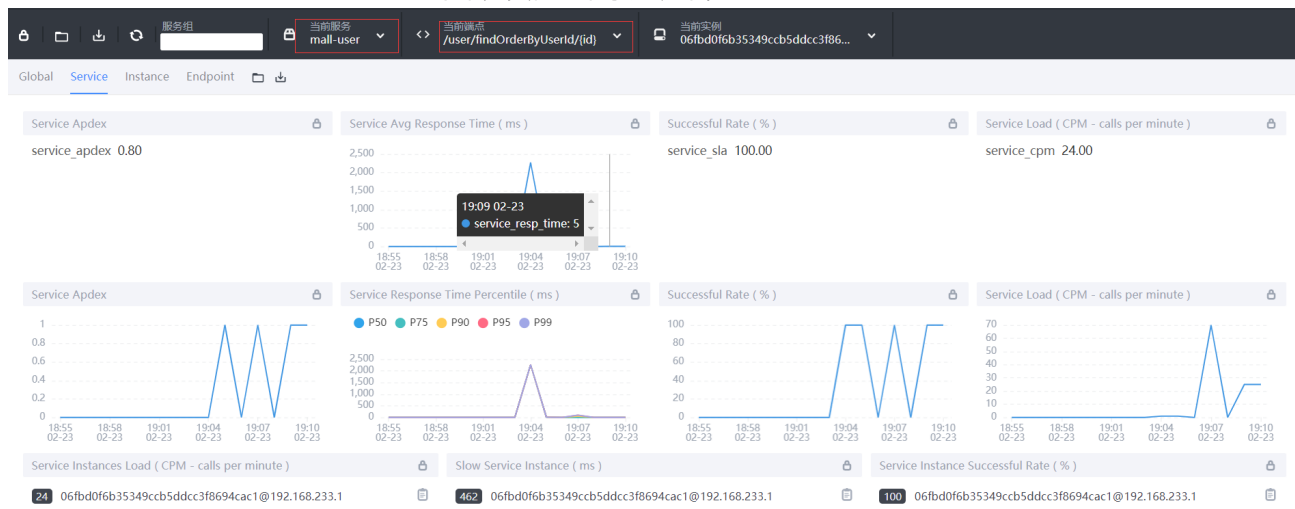
Service Apdex (折线图)：不同时间的Apdex评分；

Service Avg Response Times：平均响应延时，单位ms；

Service Response Time Percentile：百分比响应延时；

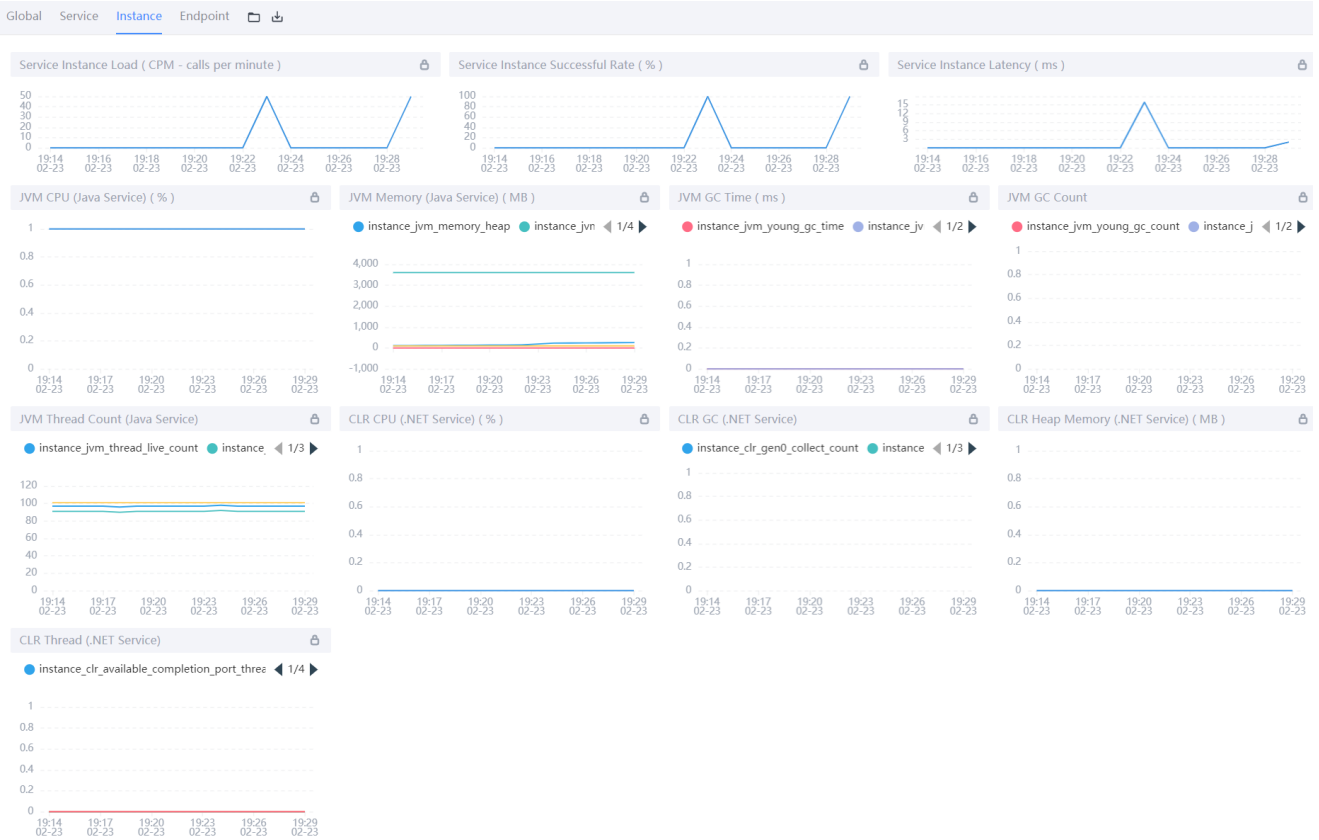
Successful Rate (数字)：请求成功率；

- Successful Rate (折线图) : 不同时间的请求成功率;
- Service Load (数字) : 每分钟请求数;
- Service Load (折线图) : 不同时间的每分钟请求数;
- Service Instances Load: 每个服务实例的每分钟请求数;
- Show Service Instance: 每个服务实例的最大延时;
- Service Instance Successful Rate: 每个服务实例的请求成功率;



Instance服务维度

- Service Instance Load: 当前实例的每分钟请求数;
- Service Instance Successful Rate: 当前实例的请求成功率;
- Service Instance Latency: 当前实例的响应延时;
- JVM CPU: jvm占用CPU的百分比;
- JVM Memory: JVM内存占用大小, 单位m;
- JVM GC Time: JVM垃圾回收时间, 包含YGC和OGC;
- JVM GC Count: JVM垃圾回收次数, 包含YGC和OGC;
- JVM Thread Count: JVM线程数;
- 还有几个是.NET的, 类似于JVM虚拟机, 暂时不做说明;



Endpoint 端点 (API) 维度

Endpoint Load in Current Service: 每个端点的每分钟请求数;

Slow Endpoints in Current Service: 每个端点的最慢请求时间, 单位ms;

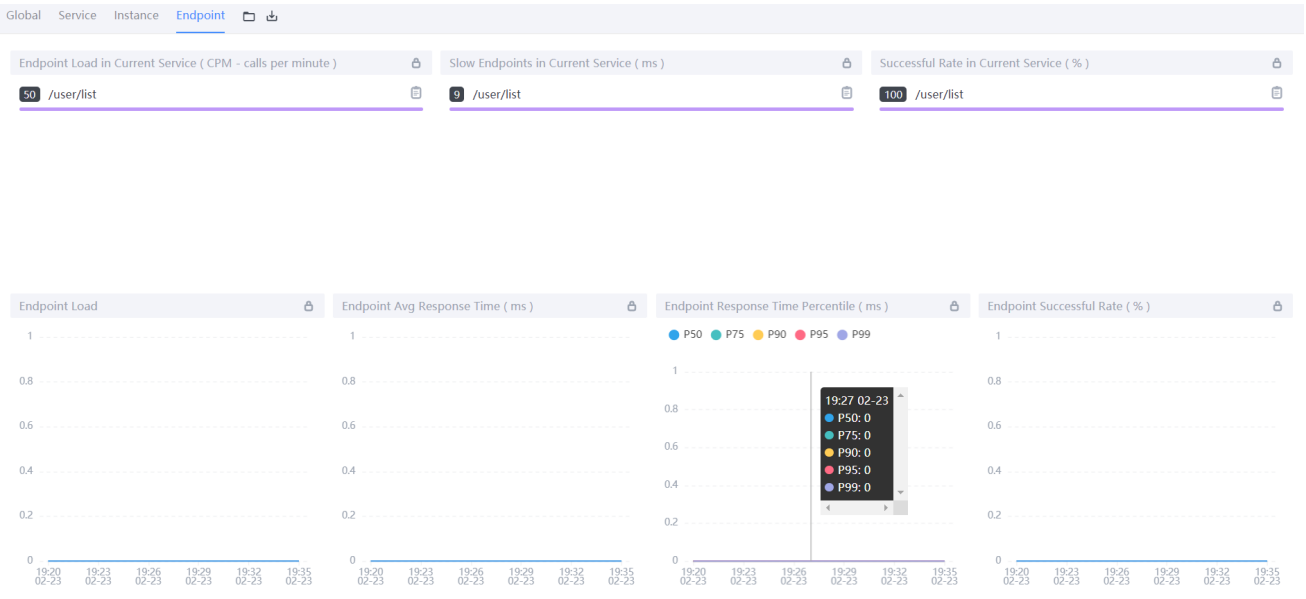
Successful Rate in Current Service: 每个端点的请求成功率;

Endpoint Load: 当前端点每个时间段的请求数据;

Endpoint Avg Response Time: 当前端点每个时间段的请求行响应时间;

Endpoint Response Time Percentile: 当前端点每个时间段的响应时间占比;

Endpoint Successful Rate: 当前端点每个时间段的请求成功率;

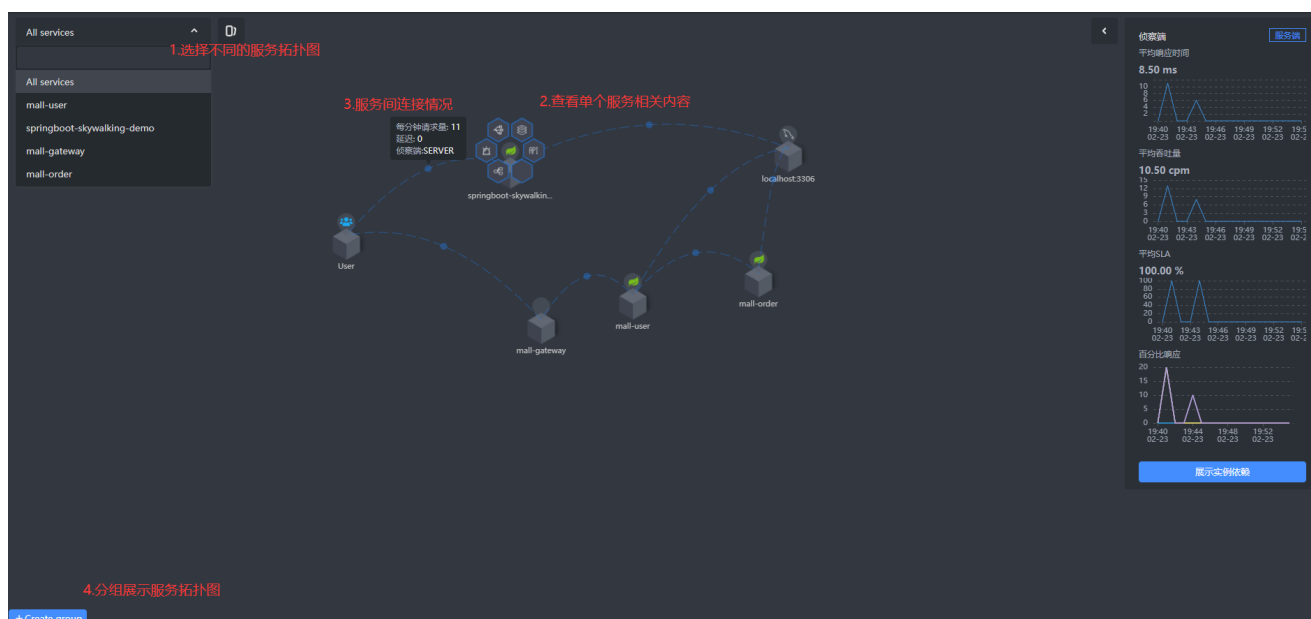


拓扑图

1: 选择不同的服务关联拓扑;

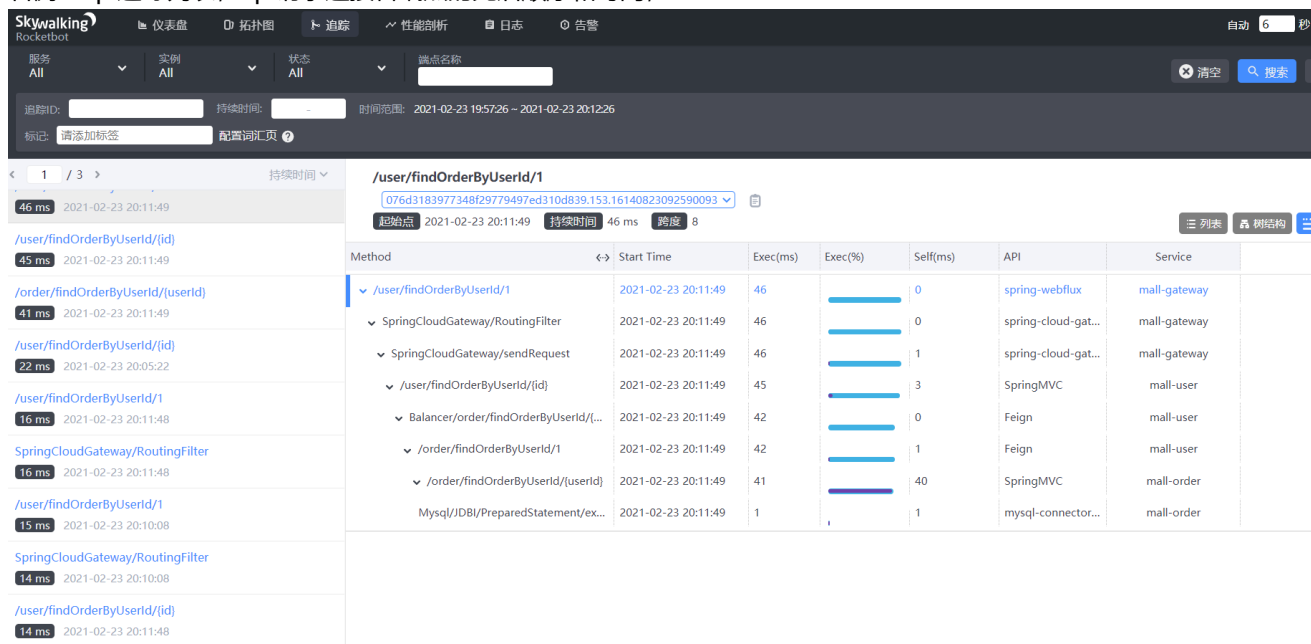
2: 查看单个服务相关内容;

- 3: 服务间连接情况;
- 4: 分组展示服务拓扑;



追踪

- 左侧: api接口列表, 红色-异常请求, 蓝色-正常请求;
- 右侧: api追踪列表, api请求连接各端点的先后顺序和时间;



性能剖析

- 新建任务: 新建需要分析的端点
- 左侧列表: 任务及对应的采样请求
- 右侧: 端点链路及每个端点的堆栈信息

服务

mall-user

端点名称

监控时间

此刻 设置时间 2021-02-23 19:58:51

监控持续时间

5 min 10 min 15 min

起始监控时间 (ms)

0

监控间隔

10 ms 20 ms 50 ms 100 ms

最大采样数

5

新建任务

服务：需要分析的服务；

端点：链路监控中端点的名称，可以在链路追踪中查看端点名称；

监控时间：采集数据的开始时间；

监控持续时间：监控采集多长时间；

起始监控时间：多少秒后进行采集；

监控间隔：多少秒采集一次；

最大采集数：最大采集多少样本；

The screenshot shows the Skywalking interface with a task configuration panel on the left and an analysis results panel on the right. The task configuration includes service name, endpoint name, monitoring time, duration, start time, interval, and maximum samples. The analysis results panel shows a table of spans with columns for Span, Start Time, Exec(ms), Exec(%), Self(ms), API, and Service. A red box highlights the table content.

Span	Start Time	Exec(ms)	Exec(%)	Self(ms)	API	Service
/user/list	2021-02-23 21:57:42	61	59	59	SpringMVC	springboot-skywalkin...
com.tuling.mall.skywalkingdemo.service.U...	2021-02-23 21:57:42	2	1	1	Unknown	springboot-skywalkin...
Mysql/JDBI/PreparedStatement/execute	2021-02-23 21:57:42	1	1	1	mysql-connector...	springboot-skywalkin...

分析线程栈信息

2c71b14e0d3e4b589965a8a28af8405a5.64.16213015281380001

Span	Start Time	Exec(ms)	Exec(%)	Self(ms)	API	Service
/profile	2021-05-18 09:32:08	503	0	0	SpringMVC	springboot-skywalkin...
com.tuling.mall.skywalkingdemo.controller.Pr...	2021-05-18 09:32:08	503	503	503	Unknown	springboot-skywalkin...

Thread Stack	Duration (ms)	Self Duration (ms)	top slow	Dump Count
java.lang.Thread.run:748	484	0		45
org.apache.tomcat.util.threads.TaskThread\$WrappingRunnable.run:61	484	0		45
java.util.concurrent.ThreadPoolExecutor\$Worker.run:624	484	0		45
java.util.concurrent.ThreadPoolExecutor.runWorker:1149	484	0		45
org.apache.tomcat.util.net.SocketProcessorBase.run:49	484	0		45
org.apache.tomcat.util.net.NioEndpoint\$SocketProcessor.doRun:1589	484	0		45
org.apache.coyote.AbstractProtocol\$ConnectionHandler.process:868	484	0		45
org.apache.coyote.AbstractProcessorLight.process:65	484	0		45
org.apache.coyote.http11.Http11Processor.service:373	484	0		45
org.apache.catalina.connector.CoyoteAdapter.service:343	484	0		45
org.apache.catalina.core.StandardEngineValve.invoke:74	484	0		45
org.apache.catalina.valves.ErrorReportValve.invoke:92	484	0		45
org.apache.catalina.core.StandardHostValve.invoke:-1	484	0		45
org.apache.skywalking.apm.agent.core.plugin.interceptor.enhance.Inst...	484	0		45
org.apache.catalina.core.StandardHostValve\$auxiliary\$ERucymyh.call:-1	484	0		45
org.apache.catalina.core.StandardHostValve.invoke\$original\$CYynBy...	484	0		45
org.apache.catalina.core.StandardHostValve.invoke\$original\$CYynBy...	484	0		45
org.apache.catalina.authenticator.AuthenticatorBase.invoke:541	484	0		45
org.apache.catalina.core.StandardContextValve.invoke:96	484	0		45
org.apache.catalina.core.StandardWrapperValve.invoke:202	484	0		45
org.apache.catalina.core.ApplicationFilterChain.doFilter:166	484	0		45
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter:1...	484	0		45
org.springframework.web.filter.OncePerRequestFilter.doFilter:119	484	0		45
org.springframework.web.filter.CharacterEncodingFilter.doFilter...	484	0		45
org.apache.catalina.core.ApplicationFilterChain.doFilter:166	484	0		45
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter...	484	0		45
org.springframework.web.filter.OncePerRequestFilter.doFilter...	484	0		45
org.springframework.web.filter.FormContentFilter.doFilterInt...	484	0		45
org.apache.catalina.core.ApplicationFilterChain.doFilter:166	484	0		45
org.apache.catalina.core.ApplicationFilterChain.internalDoFI...	484	0		45
org.springframework.web.filter.OncePerRequestFilter.doFil...	484	0		45
org.springframework.web.filter.RequestContextFilter.doFil...	484	0		45
org.apache.catalina.core.ApplicationFilterChain.doFilter:166	484	0		45
org.apache.catalina.core.ApplicationFilterChain.internalD...	484	0		45
org.apache.tomcat.websocket.server.WsFilter.doFilter:53	484	0		45
org.apache.catalina.core.ApplicationFilterChain.doFilter...	484	0		45
org.apache.catalina.core.ApplicationFilterChain.interna...	484	0		45
javax.servlet.http.HttpServlet.service:733	484	0		45
org.springframework.web.servlet.FrameworkServlets...	484	0		45
javax.servlet.http.HttpServlet.service:626	484	0		45
org.springframework.web.servlet.FrameworkServlet...	484	0		45
org.springframework.web.servlet.FrameworkServlet...	484	0		45
org.springframework.web.servlet.DispatcherServe...	484	0		45
org.springframework.web.servlet.DispatcherServl...	484	0		45
org.springframework.web.servlet.mvc.method.Ab...	484	0		45
org.springframework.web.servlet.mvc.method.a...	484	0		45
org.springframework.web.servlet.mvc.method.a...	484	0		45
org.springframework.web.servlet.mvc.method.a...	484	0		45
org.springframework.web.servlet.mvc.method....	484	0		45
org.springframework.web.method.support.Inv...	484	0		45
org.springframework.web.method.support.In...	484	0		45
java.lang.reflect.Method.invoke:498	484	0		45
sun.reflect.DelegatingMethodAccessorImpl...	484	0		45
sun.reflect.NativeMethodAccessorImplInvo...	484	0		45
sun.reflect.NativeMethodAccessorImplInvo...	484	0		45
com.tuling.mall.skywalkingdemo.controlle...	484	0		45
org.apache.skywalking.apm.agent.core.pl...	484	0		45
com.tuling.mall.skywalkingdemo.control...	484	0		45
com.tuling.mall.skywalkingdemo.contro...	484	0		45
com.tuling.mall.skywalkingdemo.contr...	484	0		45
com.tuling.mall.skywalkingdemo.contr...	484	0		45
org.apache.skywalking.apm.agent.cor...	484	0		45
com.tuling.mall.skywalkingdemo.con...	484	0		45
com.tuling.mall.skywalkingdemo.co...	484	0		45

▼ com.tuling.mall.skywalkingdemo.co...	484	0	45
▼ java.util.concurrent.CountDownLat...	484	0	45
▼ java.util.concurrent.locks.Abstract...	484	0	45
▼ java.util.concurrent.locks.Abstract...	484	0	45
▼ java.util.concurrent.locks.LockSu...	484	0	45
sun.misc.Unsafe.park-2	484	484	45

告警

不同维度告警列表，可分为服务、端点和实例。

2021-02-21 21:25:25 Response time of service instance 98e1839a6fdf48b0aedb0ecabb8ea5f7@192.168.233.1 of springboot-skywalking-demo is more than 1000ms in 2 minutes of last 10 minutes 服务实例

2021-02-21 21:21:25 Response time of service springboot-skywalking-demo is more than 1000ms in 3 minutes of last 10 minutes. 服务

2021-02-21 21:19:25 Response time of service instance 98e1839a6fdf48b0aedb0ecabb8ea5f7@192.168.233.1 of springboot-skywalking-demo is more than 1000ms in 2 minutes of last 10 minutes 服务实例

2021-02-21 21:19:25 Response time of endpoint relation User in User to /user/info/{id} in springboot-skywalking-demo is more than 1000ms in 2 minutes of last 10 minutes 服务端点关系

文档: 19-1 Skywalking UI介绍.note

链接: [http://note.youdao.com/noteshare?](http://note.youdao.com/noteshare?id=2ffc04d844595930dc3f42490b2f1a58&sub=4B6EDF5E5E894A72A3F96166197AB389)

[id=2ffc04d844595930dc3f42490b2f1a58&sub=4B6EDF5E5E894A72A3F96166197AB389](http://note.youdao.com/noteshare?id=2ffc04d844595930dc3f42490b2f1a58&sub=4B6EDF5E5E894A72A3F96166197AB389)