

TROUBLESHOOTING SPRING BOOT APPS WITH SENTRY



MACIEJ
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MAKING SOFTWARE IN 2021 LIKE A PRO

- Agile
- Unit & Integration Tests
- Frequent Releases
- Cloud
- Deployment Automation

DEVELOPER LIFE IN 2007

- ~~Agile~~ Waterfall
- ~~Unit & Integration Tests~~ Manual Testing
- ~~Frequent Releases~~ Release every few months
- ~~Cloud Server Room~~ behind the wall
- ~~Deployment Automation~~ Sending ZIP file to release manager



**If something can go wrong,
It will go wrong**

```
Exception in thread "main" java.lang.NullPointerException
```

```
at core.GetMagic.main(GetMagic.java:42)
```

```
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
```

```
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
```

```
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
```

```
at java.lang.reflect.Method.invoke(Method.java:498)
```

```
at com.intellij.rt.execution.application.AppMain.main(AppMain.java:144)
```

```
Process finished with exit code 1
```

```
return paymentService.executePayment(userId, payment);
```

```
try {
    return paymentService.executePayment(userId, payment);
} catch (Exception e) {
    LOGGER.error("Executing payment failed for user: {}, payment: {}", e);
    throw new RuntimeException(e);
}
```

```
try {
    LOGGER.info("Executing payment for user: {}", userId);
    PaymentResult result = paymentService.executePayment(userId, payment);
    LOGGER.info("Payment result: {}", result);
    return result;
} catch (Exception e) {
    LOGGER.error("Executing payment failed for user: {}, payment: {}", e);
    throw new RuntimeException(e);
}
```


THINGS HAVE CHANGED

- (Misunderstood) Agile
- Cloud & Microservices
- Mobile (traffic!)
- (Proper) security



hey I just met you
and this is crazy
but can this error log
be a bug report maybe?



@maciejwalkowiak





MACIEJ WALKOWIAK

- independent consultant
- Spring Cloud AWS Lead
- working with  SENTRY



spring
by Pivotal™



DEMO TIME!



@maciejwalkowiak

SENTRY & SPRING BOOT INTEGRATIONS

- Spring MVC
- Spring WebFlux (error reporting)
- Retrieving user information from Spring Security
- RestTemplate
- WebClient
- Logback
- declarative tracing with @SentrySpan & @SentryTransaction

OTHER INTEGRATIONS

- OpenFeign
- Apollo GraphQL
- Java Util Logging
- Log4j2
- Servlets

Sentry Pricing

Developer

Limited Error and Performance Monitoring.

\$0/mo

Free

Highlights:

Support for all languages
Release tracking
Community forums

GET STARTED

Team

Core Error and Performance Monitoring with flexible event volume.

\$26/mo

When billed annually with default pre-paid data

Highlights:

Unlimited members
Third-party integrations
Metric alerts

START TRIAL

Business

Standardized Error and Performance Monitoring with insights powered by Discover.

\$80/mo

When billed annually with default pre-paid data

Highlights:

Advanced analytics
Cross-project visibility
SAML support
Custom Dashboards

START TRIAL

Enterprise

Full platform monitoring with cross-project insights and optional Premium Customer Success.

Highlights:

Data locality options available
Priority support and SLAs
Single tenant options
Security and Compliance

REQUEST A DEMO

<https://sentry.io>



Sentry


Real-time crash reporting for your web apps, mobile apps, and games.

<https://sentry.io>  @getsentry Verified


 Overview

 Repositories 347


 Packages

 People 70

 Projects 3

 Sponsoring 1

Pinned

 [sentry](#)

Public

Sentry is cross-platform application monitoring, with a focus on error reporting.

 Python  29.1k  3.3k

 [sentry-react-native](#)

Public

Official Sentry SDK for react-native

 TypeScript  1.2k  253

 [sentry-javascript](#)

Public

Official Sentry SDKs for JavaScript

 TypeScript  5.8k  1.1k

 [sentry-php](#)

Public

The official PHP SDK for Sentry (sentry.io)

 PHP  1.6k  412

 [sentry-python](#)

Public

The new Python SDK for Sentry.io

 Python  1.1k  237

 [responses](#)

Public

A utility for mocking out the Python Requests library.

 Python  3.3k  280

<https://github.com/getsentry>

SENTRY FOR SPRING BOOT

Getting Started

Scope & Breadcrumbs

Advanced Usage

Async Methods

Logging Framework Integrations

WebFlux Integration

Record User Information

Configuration

Usage

Legacy SDK (1.7)

PERFORMANCE MONITORING

Set Up

Instrumentation

Connect Services

ENRICHING EVENTS

Add Context

Identify Users

Customize Tags

Attachments

Breadcrumbs

User Feedback

Scopes and Hubs

DATA MANAGEMENT

Scrubbing Sensitive Data

PRODUCT GUIDES

Sentry Basics

Issues

Projects

Alerts

Performance Monitoring

Releases

Home > Platforms > Java > Spring Boot

Spring Boot

Sentry's integration with [Spring Boot](#) supports Spring Boot 2.1.0 and above to report unhandled exceptions as well as release and registration of beans. If you're on an older version, use [our legacy integration](#).

The `sentry-spring-boot-starter` library enhances [Sentry Spring](#) to:

- manage a fine-grained configuration using `application.properties` or `application.yml`
- automatically include the release when [Spring Boot Git integration is configured](#)
- automatically register `BeforeSendCallback`, `BeforeBreadcrumbCallback`, `EventProcessor`, `Integration` beans

On this page, we get you up and running with Sentry's SDK, so that it will automatically report errors and exceptions in your application.

Don't already have an account and Sentry project established? Head over to [sentry.io](#), then return to this page.

Install

Sentry captures data by using an SDK within your application's runtime.

```
Maven Gradle
<dependency>
  <groupId>io.sentry</groupId>
  <artifactId>sentry-spring-boot-starter</artifactId>
  <version>5.2.1</version>
</dependency>
```

Sentry's Java SDK depends on [Gson](#) as a transitive dependency; the minimum required version is 2.7.

If you are using multiple Sentry dependencies, you can add a [bill of materials](#) to avoid specifying the version of each dependency.

Configure

Configuration should happen as early as possible in your application's lifecycle.

Sentry's Spring Boot integration auto-configures `sentry.in-app-packages` property with the package where `@SpringBootApplication` or `@SpringBootConfiguration` annotated class is located.

Package:

[maven:io.sentry:sentry-spring-boot-starter](#)

Version:

5.2.1

Repository:

<https://github.com/getsentry/sentry-java>

ON THIS PAGE

[Install](#)[Configure](#)[Verify](#)

RELATED GUIDES

[java.util.logging](#)[Log4j 2.x](#)[Logback](#)[Servlet](#)[Spring](#)[Spring Boot](#)

getsentry/sentry-java: A Sentry x +

https://github.com/getsentry/sentry-java

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main 17 branches 105 tags Go to file Add file Code

maciejwalkowiak Close HostnameCache#execut... ✓ efed2fe 2 days ago 1,147 commits

.github	add pull_request without the branches tag	4 days ago
.mvn/wrapper	chmod mvn and move mvn folder to root folder	3 months ago
buildSrc	Fix: ActivityLifecycleIntegration#appStartSpan me...	19 days ago
docs	Generate Javadocs on Github Pages (#1009)	12 months ago
gradle/wrapper	Bump AGP to 7.0.2 (#1650)	26 days ago

https://github.com/getsentry/sentry-java/find/main

About

A Sentry SDK for Java, Android and other JVM languages.

docs.sentry.io/

android java spring spring-boot crash-reporting logback sentry apollo-client okhttp servlet timber

<https://github.com/getsentry/sentry-java>

HARTPA BUGFIXING!



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