

# Elastic APM Workshop Handbook

## Requirements:

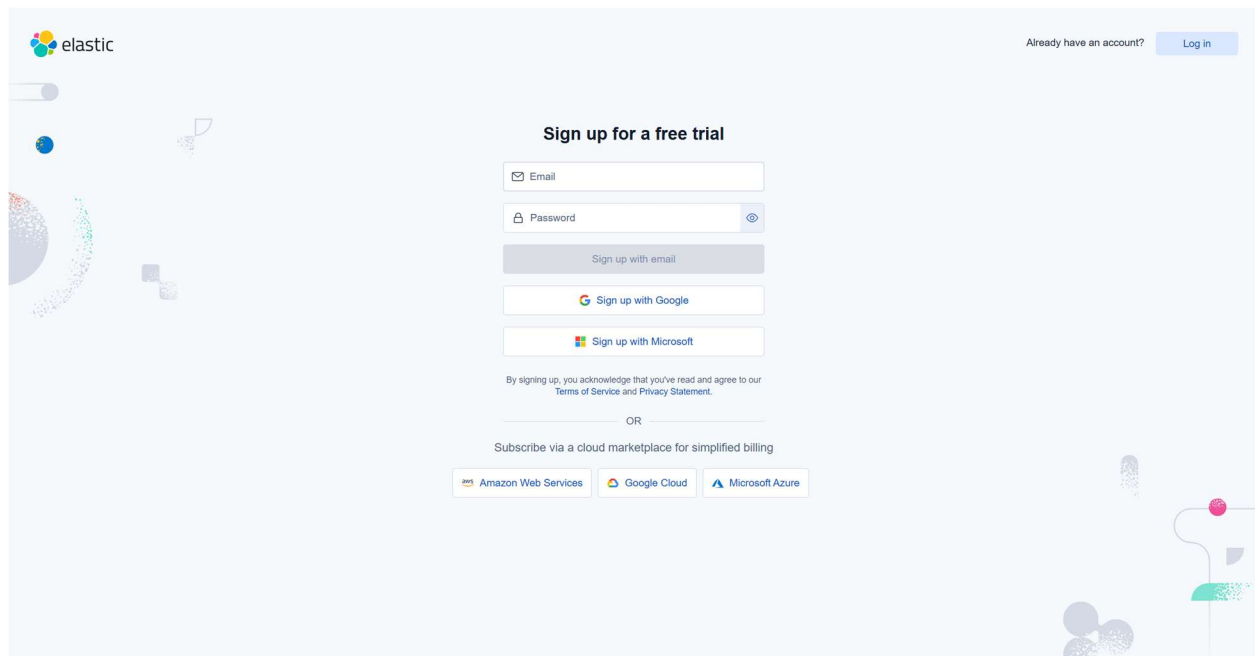
- Internet connection is required
- JDK 17 or later and configured JAVA\_HOME  
<https://www.oracle.com/id/java/technologies/downloads/#java24>
- Download material dan demo app pada link berikut  
<https://github.com/xyperia/elastic-apm-workshop>

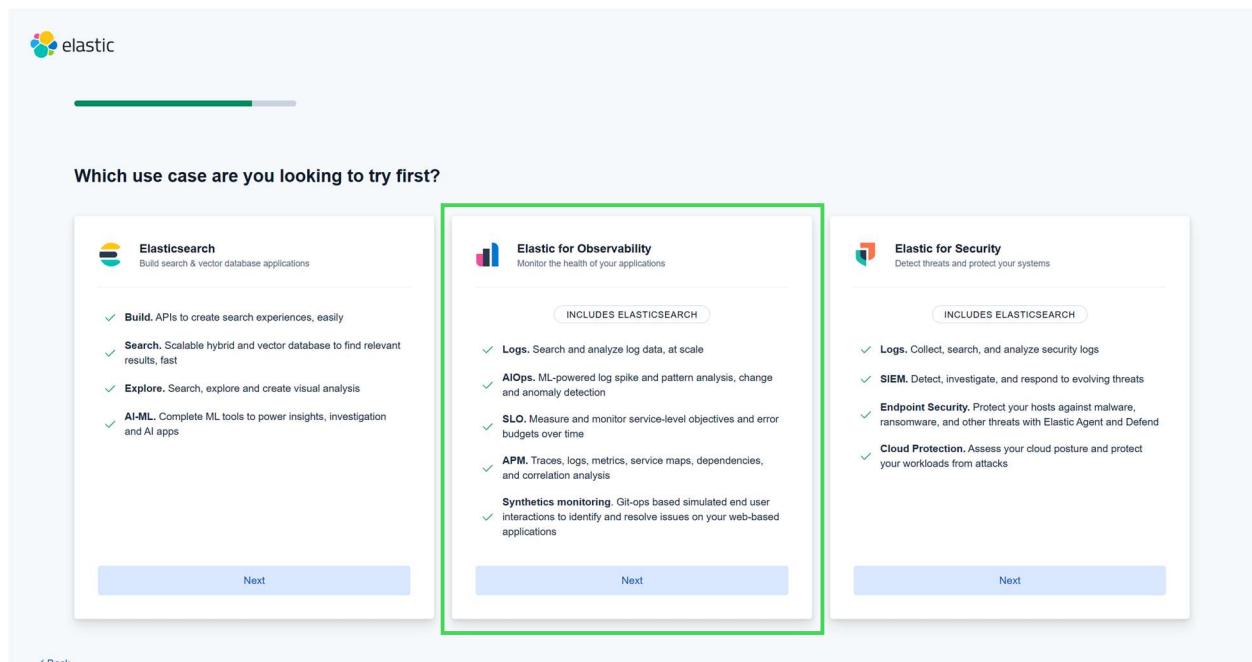
## OpenAI Token

```
sk-proj-  
47BgwsGfqw7p6TsCzTCH2XrYuVy_bAczWN_hTuGiaCAGvL_S4v64G68i6LQIKUBGsJEC5GSUWkT3BL  
bkFJZP4_gSTLARJC6_rXzj6UZq5KBm_hVSMh3Bx0NI5XIRSU5ejA96HqzvafFZbC1T651judbctLoA
```

## Create Deployment

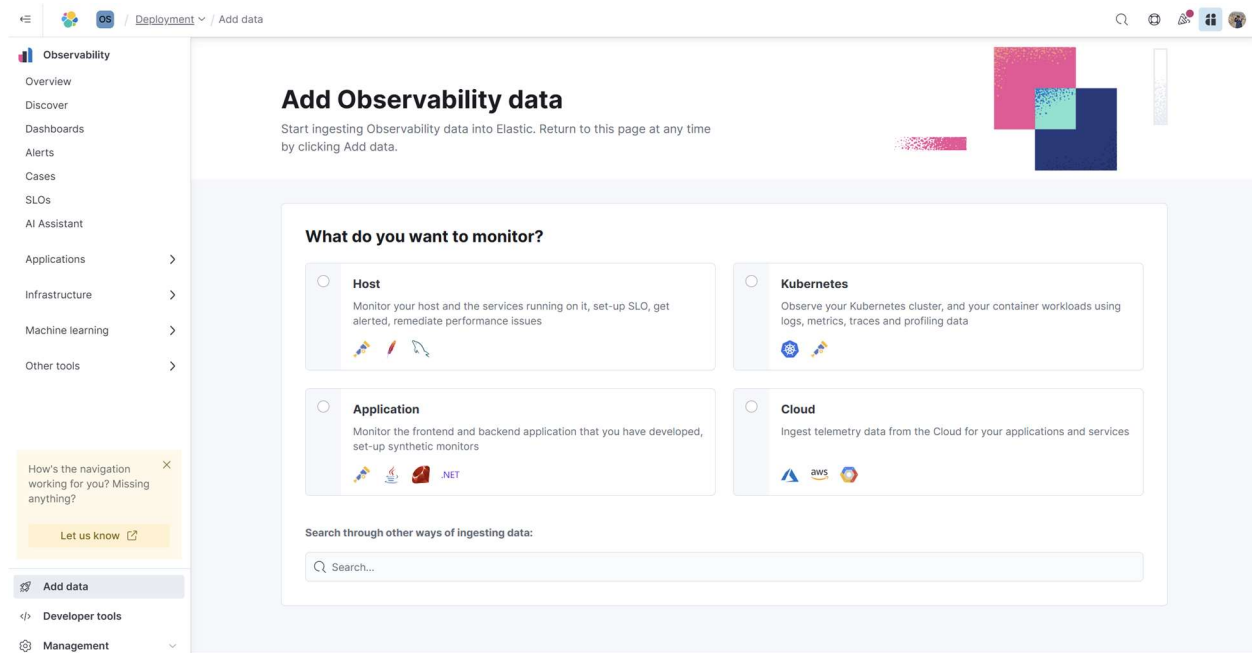
Akses Elastic Cloud pada [cloud.elastic.co](https://cloud.elastic.co) menggunakan email untuk membuat akun baru. Sesuaikan dengan kebutuhan anda. *Screenshot terlampir*





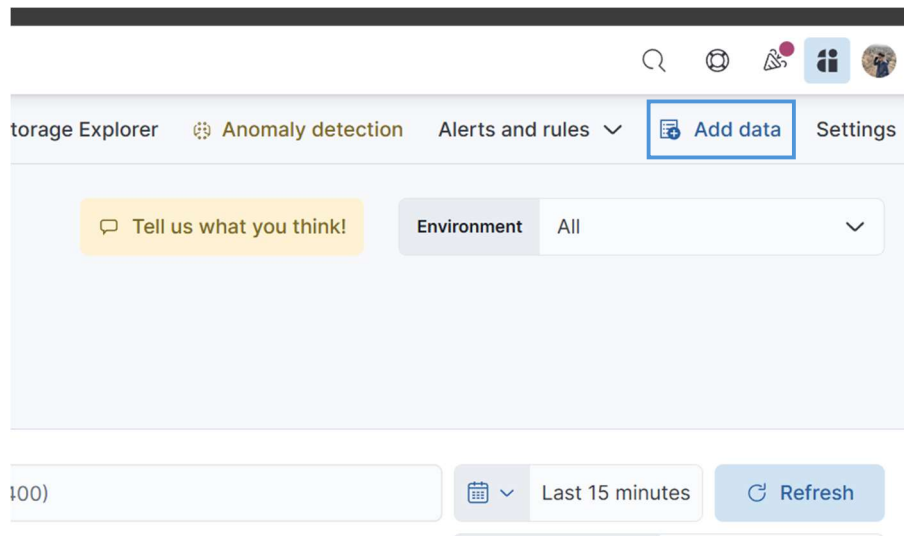
## APM Agent Onboarding

Berikut adalah tampilan awal jika cluster Elastic sudah berhasil di-setup

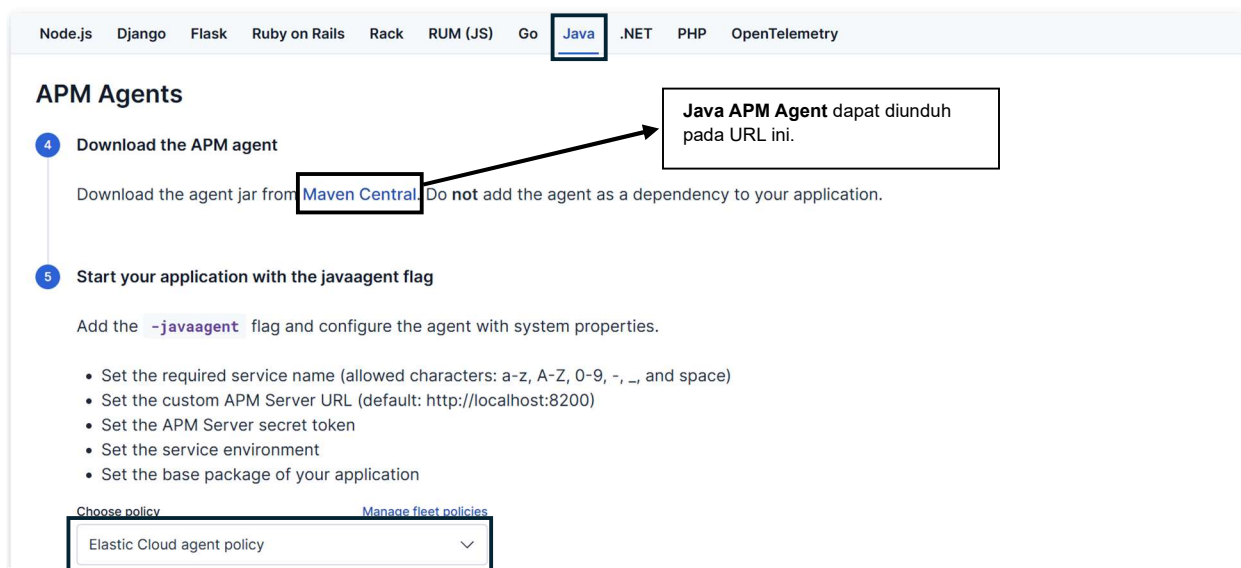


Navigasi ke **Applications > Service Inventory**

Klik **Add data** untuk menambahkan aplikasi yang akan dimonitor



Demo kali ini akan menggunakan Java App.



Berikut merupakan sample command yang bisa digunakan untuk implementasi APM agent

Choose policy [Manage fleet policies](#)

Elastic Cloud agent policy

Adds the selected policy configuration to the snippet below.

Configuration setting	Configuration value
Delastic.apm.service_name	my-service-name
Delastic.apm.secret_token	3rjm7a3ybIK5t4U5oL
Delastic.apm.server_url	https://c130387521b94b5dbbfb856aeb11ca90.apm.asia-southeast1.gcp.elastic-cloud.com:443
Delastic.apm.environment	my-environment

```
1 java -javaagent:/path/to/elastic-apm-agent-<version>.jar \  
2 -Delastic.apm.service_name=my-service-name \  
3 -Delastic.apm.secret_token=3rjm7a3ybIK5t4U5oL \  
4 -Delastic.apm.server_url=https://c130387521b94b5dbbfb856aeb11ca90.apm.asia-southeast1.gcp.elastic-cloud.com:443 \  
5 -Delastic.apm.environment=my-environment \  
6 -Delastic.apm.application_packages=org.example \  
7 -jar my-service-name.jar
```

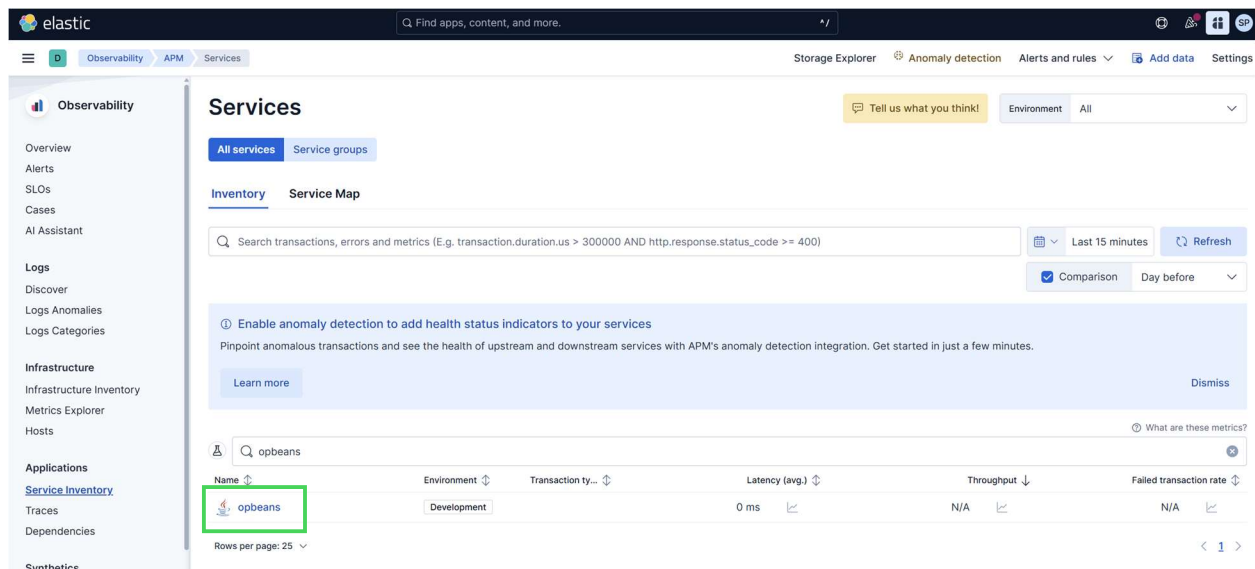
See the [documentation](#) for configuration options and advanced usage.

Path, environment, dan service name bisa disesuaikan dengan aplikasi yang ingin dimonitor.

Contoh command:

```
java -javaagent:"C:\Users\xyperia\OneDrive\Elastic\elastic-apm-agent-1.54.0.jar" -Delastic.apm.service_name=opbeans -Delastic.apm.secret_token=3rjm7a3ybIK5t4U5oL -Delastic.apm.server_url=https://c130387521b94b5dbbfb856aeb11ca90.apm.asia-southeast1.gcp.elastic-cloud.com:443 -Delastic.apm.environment=Development -jar "C:\Users\xyperia\OneDrive\Elastic\opbeans-0.0.1.jar"
```

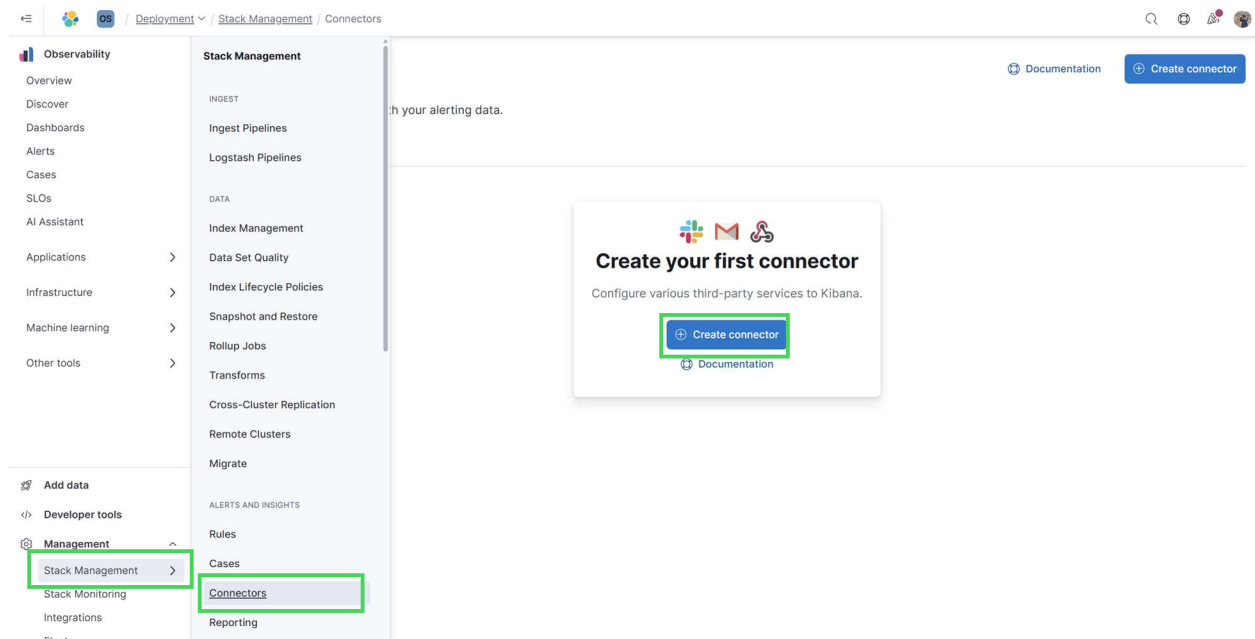
Entry Opbeans akan muncul apabila integrasi sukses dilakukan



Aplikasi Opbeans dapat diakses melalui <http://localhost:8080>. Silahkan akses app tersebut dan monitor aplikasi melalui Kibana


## AI Assistant Integration

Navigasi ke menu **Stack Management > Connectors > Create connector** untuk menambahkan integrasi baru



Tambahkan integrasi OpenAI dengan memilih OpenAI

Selanjutnya masukan Connector name dan API Key. API Key dapat dilihat pada halaman 1.

**OpenAI connector**×

Send a request to an OpenAI or Azure OpenAI service.

Compatibility: Generative AI for Security Generative AI for Observability Generative AI for Search

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**Connector name**

**Connector settings**  
**Select an OpenAI provider**  

OpenAI ▼

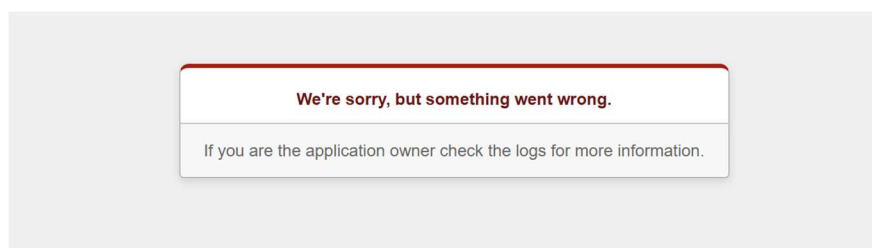
  
**URL**  
  
The OpenAI API endpoint URL. For more information on the URL, refer to the [OpenAI documentation](#).  
**Default model**  
  
If a request does not include a model, it uses the default.  
**OpenAI Organization**  
  
For users who belong to multiple organizations. Organization IDs can be found on your Organization settings page.  
**OpenAI Project**  
  
For users who are accessing their projects through their legacy user API key. Project IDs can be found on your General settings page by selecting the specific project.  
**Authentication**  
**API key**  
  
The OpenAI API authentication key for HTTP Basic authentication. For more details about generating OpenAI API keys, refer to the [OpenAI documentation](#).

Setelah itu klik Save.

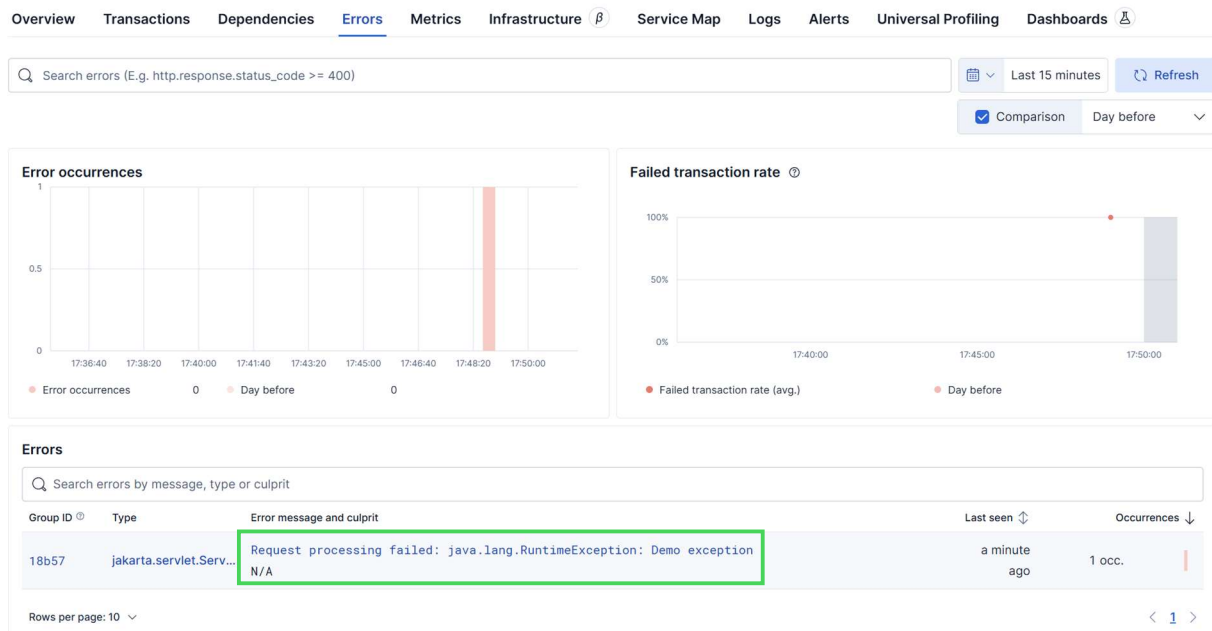
## Testing AI Assistant

Navigasi ke app Opbeans, lalu akses url berikut <http://localhost:8080/is-it-coffee-time>

Endpoint tersebut akan men-trigger error pada aplikasi yang akan dibaca oleh Elastic APM.



Kembali ke Opbeans pada menu Elastic APM, lalu navigasi ke tab **Errors**



Elastic APM mendeteksi error yang terjadi pada aplikasi. Silahkan klik pada pesan error  
Kita dapat memanfaatkan OpenAI untuk melakukan analisa terhadap error log yang muncul pada menu APM.

4 minutes ago | GET http://localhost:8080/is-it-coffee-time | 500 Internal Server Error | Chrome (137.0.0.0) | IndexController#error

Exception message

Request processing failed: java.lang.RuntimeException: Demo exception

Culprit

N/A

> **What's this error?** Get helpful insights from our Elastic AI Assistant.

[Exception stack trace](#) [Metadata](#)

**jakarta.servlet.ServletException: Request processing failed: java.lang.RuntimeException: Demo exception**

```
at org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:1022)
at org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:903)
at jakarta.servlet.http.HttpServlet.service(HttpServlet.java:564)
at org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:885)
at jakarta.servlet.http.HttpServlet.service(HttpServlet.java:658)
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:205)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:149)
```

Exception message

Request processing failed: java.lang.RuntimeException: Demo exception

Culprit

N/A

What's this error?

Get helpful insights from our Elastic AI Assistant.

The exception you're seeing, `java.lang.RuntimeException: Demo exception`, appears to be a deliberately thrown exception likely used for testing or demonstration purposes within the opbeans Java service.

The stack trace shows the exception originating from the `IndexController#error` endpoint, suggesting this endpoint is specifically designed to trigger this error. The exception is caught and handled by the Spring framework, ultimately resulting in a `jakarta.servlet.ServletException`.

Since this is a demo exception, it might not indicate a real problem in your application. However, if you're encountering this unexpectedly outside of a testing context, it could suggest an issue in your code where a demo exception is being thrown unintentionally. You should review the code within the `IndexController#error` endpoint and any related components to determine why this exception is being thrown.

Was this helpful?

Yes

No

Regenerate

Start conversation

Exception stack trace

Metadata

jakarta.servlet.ServletException: Request processing failed: java.lang.RuntimeException: Demo exception