

GLOBANT

Rest APIs mocking with Wiremock

TAE WEEK `</>`

AGENDA

- What the Mock?
- Why mocking API?
- When mocking API?
- Wiremock
 - Installing
 - Stubs
- Demo stand alone
- Demo code



mockable.io



WHY TO MOCK

- Simulate not available services/rest API
- Stable service
- Simulate errors



WHEN TO MOCK

External APIs

- Authentication
- Rights
- Send requests, alerts, emails

Mock your APIs for fast, robust and comprehensive testing

WireMock is a simulator for HTTP(S)-based APIs. Some might consider it a service virtualization tool or a mock server.

INSTALLING

Maven

Standard WireMock JAR

```
<dependency>  
  <groupId>com.github.tomakehurst</groupId>  
  <artifactId>wiremock</artifactId>  
  <version>2.19.0</version>  
  <scope>test</scope>  
</dependency>
```

Or standalone JAR

```
<dependency>  
  <groupId>com.github.tomakehurst</groupId>  
  <artifactId>wiremock-standalone</artifactId>  
  <version>2.19.0</version>  
</dependency>
```

Gradle

Standard WireMock JAR

```
testCompile "com.github.tomakehurst:wiremock:2.19.0"
```

Or standalone JAR

```
testCompile "com.github.tomakehurst:wiremock-standalone:2.19.0"
```

JUnit 4.x

```
import static com.github.tomakehurst.wiremock.client.WireMock.*;
```

```
@Rule
```

```
public WireMockRule wireMockRule = new WireMockRule(8089);
```

```
// No-args constructor defaults to port 8080
```


Non-JUnit and general Java usage

```
WireMockServer wireMockServer = new WireMockServer(wireMockConfig().port(8089));
```

```
//No-args constructor will start on port 8080, no HTTPS
```

```
wireMockServer.start();
```

```
//WireMock.configureFor("wiremock.host", 8089); //Change the port
```

```
//WireMock.configureFor("tomcat.host", 8080, "/wiremock"); //General path
```

```
// Do some stuff
```

```
WireMock.reset();
```

```
// Finish doing stuff
```

```
wireMockServer.stop();
```

Demo with stand alone

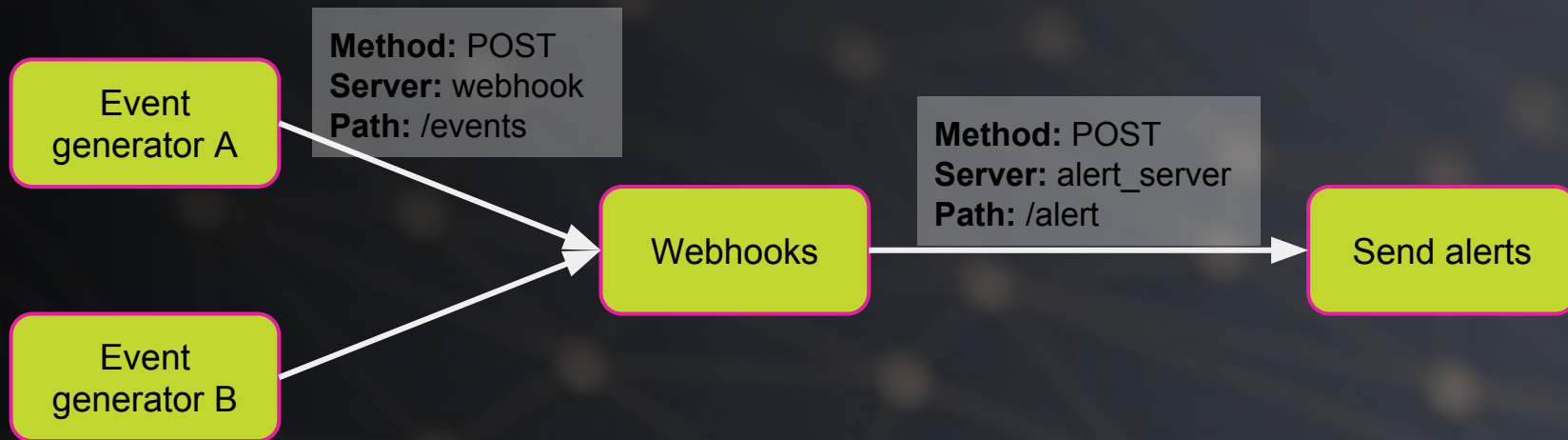
To run: `java -jar wiremock-standalone-2.19.0.jar`

To see the history: http://localhost:8080/_admin/requests

To see the mappings: http://localhost:8080/_admin/mappings

Wiremock client

Demo with code



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Thank you!