



# Spring Boot Admin

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Spring Boot

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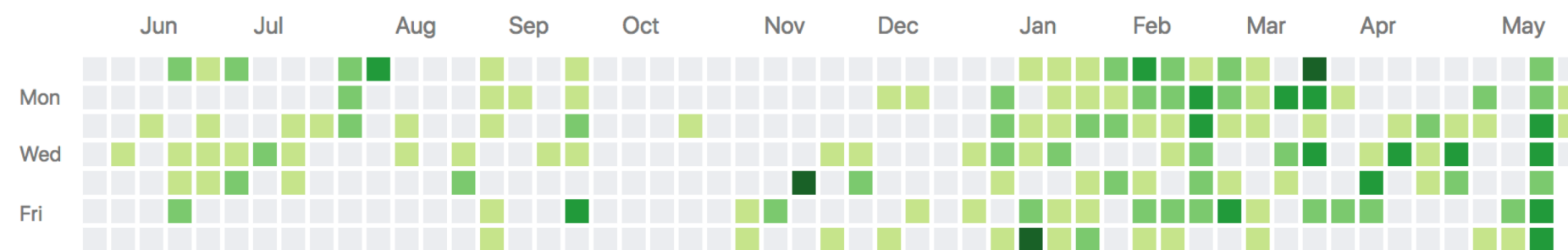
Integration with Netflix OSS components

Java 2.3k 1.2k

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# Setting things up (demo time)

# Setting up the SBA Server (1)

1. Generate web project using [Spring Initializr](#)

```
$ curl https://start.spring.io/starter.tgz \  
    -d dependencies=web,\  
    codecentric-spring-boot-admin-client,\  
    codecentric-spring-boot-admin-server \  
| tar -xzvf -
```

# Setting up the SBA Server (2)

## 2. Import Configuration to the Application

```
@EnableAdminServer
@SpringBootApplication
public class AdminServerApplication {

    ...

}
```

# Register client applications (1)

## 1. Add dependency

```
<dependency>  
  <groupId>de.codecentric</groupId>  
  <artifactId>spring-boot-admin-starter-client</artifactId>  
  <version>2.0.0</version>  
</dependency>
```

# Register client applications (2)

## 2. Configure SBA Server location and expose endpoints

```
spring.boot.admin.client.url=http://localhost:8081
```

```
management.endpoints.web.exposure.include=*  
management.endpoint.health.show-details=always
```

# Easy client tweaks

```
#set application name
spring.application.name=spring-petclinic
#enables logfile endpoint
logging.file=target/petclinic.log
#adds hyperlink to info endpoint
info.sources=https://github.com/spring-projects/spring-petclinic

<!-- add version to info endpoint -->
<plugin>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-maven-plugin</artifactId>
  <executions>
    <execution>
      <goals>
        <goal>build-info</goal>
      </goals>
    </execution>
  </executions>
</plugin>
```



# Register client applications

alternatively use

Eureka, Consul, Zookeeper,  
static config

... or any other Spring Cloud Discovery Client

# Register client applications

alternatively use

**Postponed to 2.0.1**  
(snapshot available)

... or any other Spring Cloud Discovery Client

# Behind the Scenes

client registers periodically via http post



server polls health endpoint via http



... monitoring non-Boot applications is possible  
(just health checking)

# Notifications

... simply configured via properties



... or implement your own

server forwards requests to clients  
(using zuul)



... clients must expose actuator endpoints using http

# Security

... can be implemented using Spring Security  
e.g. Basic Auth, JWT, session based, ...

... custom headers can be injected implementing a  
HttpHeadersProvider



# Customization – HttpHeadersProvider

```
@Bean
public HttpHeadersProvider injectHeaders() {
    return instance -> {
        HttpHeaders headers = new HttpHeaders()
        headers.set("X-CUSTOM", "1234567");
        return headers;
    };
}
```

# Customization - InstanceExchangeFilterFunction

```
@Bean
public InstanceExchangeFilterFunction auditLog() {
    return (instance, request, next) -> {
        if (HttpMethod.POST.equals(request.method())) {
            log.info("{} for {} on {}",
                request.method(), instance.getId(), request.url());
        }
        return next.exchange(request);
    };
}
```

# Customization - Notifier

```
@Bean
public Notifier loggerNotifier() {
    return event -> {
        log.info("Event {}", event.toString());
        return Mono.empty();
    };
}
```

# New Features in 2.0

Webflux Support

Out of the Box Cloudfoundry Support

Html-Templates for Mail-Notifications

Version is also looked up in Metadata

Sessions Endpoint Support

Wallboard View

Runs on Java 10

# What to Expect in the Future

Bugfixes... Bugfixes... Bugfixes...

Spring Cloud Finchley Support

Custom Views (for Custom Actuator Endpoints)

Multi-Instances-Actions (e.g. Setting Loglevels)

...

# Questions?



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