# Spring Boot Actuator (Production-ready features)

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#### Spring Boot Actuator

- 1. Spring Boot Actuator module provides production-ready features such as monitoring, metrics and health checks.
- 2. The Spring Boot Actuator enables you to monitor the application using HTTP endpoints and JMX.
- 3. Spring Boot Provides a spring-boot-starter-actuator library to auto-configure Actuator.

#### Commonly used Actuator endpoints

- 1. Actuator /info endpoint
- 2. Actuator /health endpoint
- 3. Actuator /beans endpoint
- 4. Actuator /conditions endpoint
- 5. Actuator /mappings endpoint
- 6. Actuator /configprops endpoint
- 7. Actuator /matrics endpoint
- 8. Actuator /env endpoint
- 9. Actuator /threaddump endpoint
- 10. Actuator /loggers endpoint

#### The /info Endpoint

If you added any information about the application in application.properties then we can view it using /info endpoint:

http://localhost:8080/actuator/info

### The /health Endpoint

The /health endpoint shows the health of the application, including the disk space, databases and more.

http://localhost:8080/actuator/health

### The /beans Endpoint

The /beans endpoint shows all the beans registered in your application, including the beans you explicitly configured and those auto configured by Spring Boot.

http://localhost:8080/actuator/beans

### The /conditions Endpoint

The /conditions endpoint shows the auto configuration report, categorised into pasitiveMatches and negativeMatches

http://localhost:8080/actuator/conditions

## The /mappings Endpoint

The /mappings endpoint shows all the @RequestMapping paths declared in the application.

This is very helpful for checking which request path will be handled by which controller method.

http://localhost:8080/actuator/mappings

## The /configprops Endpoint

The /configprops endpoint offers all the configuration properties defined by @ConfigurationProperties bean, including your configuration properties defined in the application.properties or YAML files.

http://localhost:8080/actuator/configprops

### The /metrics Endpoint

The /metrics endpoint shows various metrics about the current application such as how much memory it is using, how much memory is free, the size of the heap used, the number of threads used, and so on.

http://localhost:8080/actuator/metrics

### The /env Endpoint

The /env endpoint exposes all the properties from the Spring's ConfigurableEnvironment interface, such as a list of active profiles, application properties, system environment variables and so on.

http://localhost:8080/actuator/env

## The /threaddump Endpoint

Using /threaddumb endpoint, you can view your application's thread dumb with running threads details and JVM stack trace.

http://localhost:8080/actuator/threaddump

#### The loggers Endpoint

The /loggers endpoint allows you to view and configure the log levels of your application at runtime.

http://localhost:8080/actuator/loggers

You can view the logging level of the specific logger:

http://localhost:8080/actuator/loggers/{name}

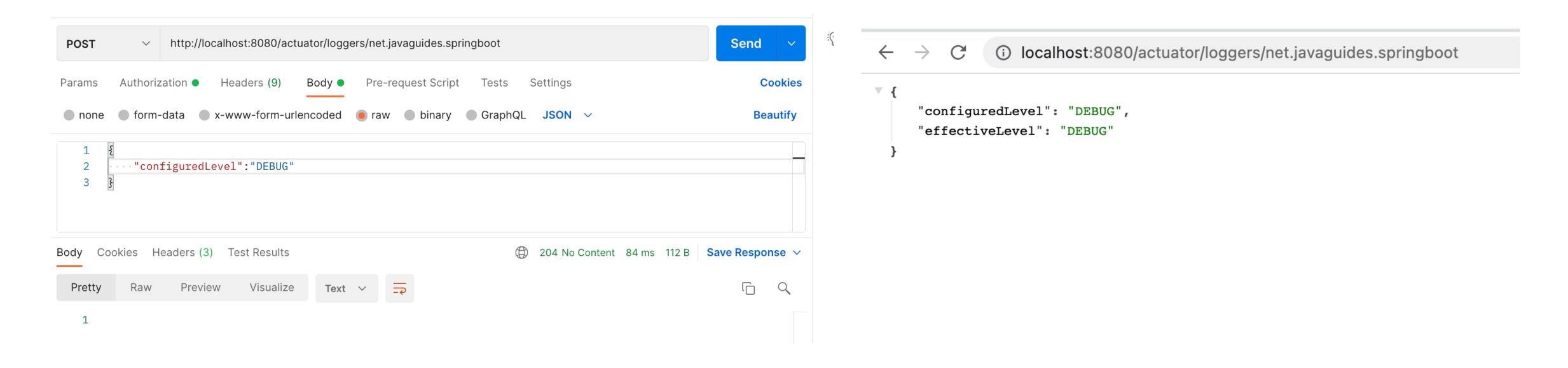
Ex:

http://localhost:8080/actuator/loggers/net.javaguides.springboot

### The loggers Endpoint

You can update the logging level of the logger at a runtime by sending a POST request to URL: http://localhost:8080/actuator/loggers/{name}

Ex: http://localhost:8080/actuator/loggers/net.javaguides.springboot



### The /shutdown Endpoint

The /shutdown endpoint can be used to gracefully shut down the application.

This endpoint not enabled by default. You can enable this endpoint by adding this property in application.properties file:

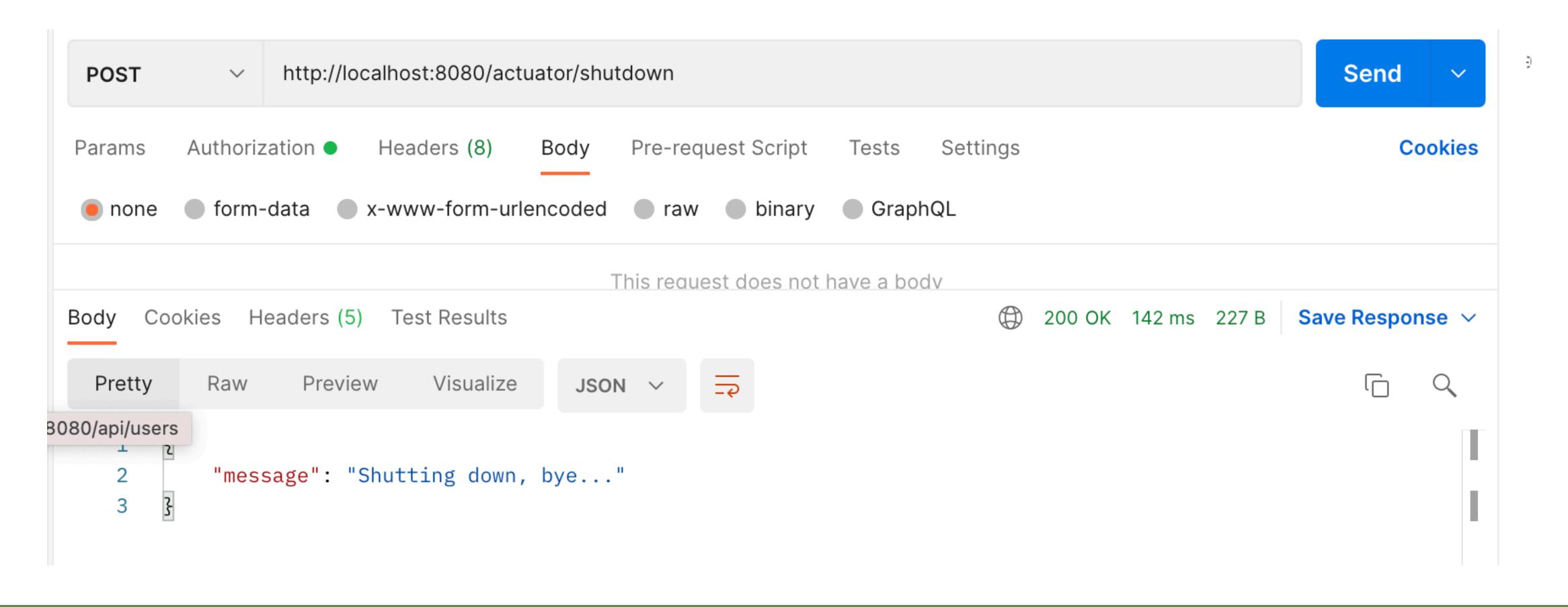
#### Management.endpoint.shutdown.enabled=true

After adding this property, we need to send the HTTP POST request to below endpoint:

http://localhost:8080/actuator/shutdown

#### The /shutdown Endpoint

#### Ex:



### The /shutdown Endpoint

1. This endpoint not enabled by default. You can enable this endpoint by adding this property in application.properties file:

#### Management.endpoint.shutdown.enabled=true

2. After adding this property, we need to send the HTTP POST request to below endpoint:

http://localhost:8080/actuator/shutdown

3. Watch the console log for spring boot application shutdown