

# Spring Boot Actuator Web API Documentation

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3.1.13.5

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This API documentation describes Spring Boot Actuators web endpoints.

# Chapter 1. Overview

Before you proceed, you should read the following topics:

- [URLs](#)
- [Timestamps](#)



In order to get the correct JSON responses documented below, Jackson must be available.

## 1.1. URLs

By default, all web endpoints are available beneath the path `/actuator` with URLs of the form `/actuator/{id}`. The `/actuator` base path can be configured by using the `management.endpoints.web.base-path` property, as shown in the following example:

```
management.endpoints.web.base-path=/manage
```

The preceding `application.properties` example changes the form of the endpoint URLs from `/actuator/{id}` to `/manage/{id}`. For example, the URL `info` endpoint would become `/manage/info`.

## 1.2. Timestamps

All timestamps that are consumed by the endpoints, either as query parameters or in the request body, must be formatted as an offset date and time as specified in [ISO 8601](#).

# Chapter 2. Audit Events (auditevents)

The `auditevents` endpoint provides information about the application's audit events.

## 2.1. Retrieving Audit Events

To retrieve the audit events, make a `GET` request to `/actuator/auditevents`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/auditevents?principal=alice&after=2024-11-19T01%3A38%3A07.891561284Z&type=logout' -i -X GET
```

The preceding example retrieves `logout` events for the principal, `alice`, that occurred after 09:37 on 7 November 2017 in the UTC timezone. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 127

{
  "events" : [ {
    "timestamp" : "2024-11-19T01:38:07.892033810Z",
    "principal" : "alice",
    "type" : "logout"
  } ]
}
```

### 2.1.1. Query Parameters

The endpoint uses query parameters to limit the events that it returns. The following table shows the supported query parameters:

| Parameter              | Description   |
|------------------------|---|
| <code>after</code>     | Restricts the events to those that occurred after the given time. Optional. |
| <code>principal</code> | Restricts the events to those with the given principal. Optional.           |
| <code>type</code>      | Restricts the events to those with the given type. Optional.                |

### 2.1.2. Response Structure

The response contains details of all of the audit events that matched the query. The following table describes the structure of the response:



| <b>Path</b>        | <b>Type</b> | <b>Description</b>                        |
|--------------------|-------------|---|
| events             | Array       | An array of audit events.                 |
| events[].timestamp | String      | The timestamp of when the event occurred. |
| events[].principal | String      | The principal that triggered the event.   |
| events[].type      | String      | The type of the event.                    |

# Chapter 3. Beans (beans)

The `beans` endpoint provides information about the application's beans.

## 3.1. Retrieving the Beans

To retrieve the beans, make a `GET` request to `/actuator/beans`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/beans' -i -X GET
```

The resulting response is similar to the following:

HTTP/1.1 200 OK

Content-Type: application/vnd.spring-boot.actuator.v3+json

Content-Length: 1089

```
{
  "contexts" : {
    "application" : {
      "beans" : {

"org.springframework.boot.autoconfigure.web.servlet.DispatcherServletAutoConfiguration
$DispatcherServletRegistrationConfiguration" : {
    "aliases" : [ ],
    "scope" : "singleton",
    "type" :
"org.springframework.boot.autoconfigure.web.servlet.DispatcherServletAutoConfiguration
$DispatcherServletRegistrationConfiguration",
    "dependencies" : [ ]
  },

"org.springframework.boot.autoconfigure.context.PropertyPlaceholderAutoConfiguration"
: {
    "aliases" : [ ],
    "scope" : "singleton",
    "type" :
"org.springframework.boot.autoconfigure.context.PropertyPlaceholderAutoConfiguration",
    "dependencies" : [ ]
  },

"org.springframework.boot.autoconfigure.web.servlet.DispatcherServletAutoConfiguration
" : {
    "aliases" : [ ],
    "scope" : "singleton",
    "type" :
"org.springframework.boot.autoconfigure.web.servlet.DispatcherServletAutoConfiguration
",
    "dependencies" : [ ]
  }
  }
}
}
```

### 3.1.1. Response Structure

The response contains details of the application's beans. The following table describes the structure of the response:

| <b>Path</b>                     | <b>Type</b> | <b>Description</b>                              |
|---------------------------------|-------------|---|
| contexts                        | Object      | Application contexts keyed by id.               |
| contexts.*.parentId             | String      | Id of the parent application context, if any.   |
| contexts.*.beans                | Object      | Beans in the application context keyed by name. |
| contexts.*.beans.*.aliases      | Array       | Names of any aliases.                           |
| contexts.*.beans.*.scope        | String      | Scope of the bean.                              |
| contexts.*.beans.*.type         | String      | Fully qualified type of the bean.               |
| contexts.*.beans.*.resource     | String      | Resource in which the bean was defined, if any. |
| contexts.*.beans.*.dependencies | Array       | Names of any dependencies.                      |

# Chapter 4. Caches (caches)

The `caches` endpoint provides access to the application's caches.

## 4.1. Retrieving All Caches

To retrieve the application's caches, make a `GET` request to `/actuator/caches`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/caches' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 435

{
  "cacheManagers" : {
    "anotherCacheManager" : {
      "caches" : {
        "countries" : {
          "target" : "java.util.concurrent.ConcurrentHashMap"
        }
      }
    },
    "cacheManager" : {
      "caches" : {
        "cities" : {
          "target" : "java.util.concurrent.ConcurrentHashMap"
        },
        "countries" : {
          "target" : "java.util.concurrent.ConcurrentHashMap"
        }
      }
    }
  }
}
```

### 4.1.1. Response Structure

The response contains details of the application's caches. The following table describes the structure of the response:

| Path                       | Type   | Description                 |
|----------------------------|--------|-----------------------------|
| <code>cacheManagers</code> | Object | Cache managers keyed by id. |

| Path   | Type   | Description                                      |
|--|--------|--|
| <code>cacheManagers.*.caches</code>          | Object | Caches in the application context keyed by name. |
| <code>cacheManagers.*.caches.*.target</code> | String | Fully qualified name of the native cache.        |

## 4.2. Retrieving Caches by Name

To retrieve a cache by name, make a `GET` request to `/actuator/caches/{name}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/caches/cities' -i -X GET
```

The preceding example retrieves information about the cache named `cities`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 113

{
  "target" : "java.util.concurrent.ConcurrentHashMap",
  "name" : "cities",
  "cacheManager" : "cacheManager"
}
```

### 4.2.1. Query Parameters

If the requested name is specific enough to identify a single cache, no extra parameter is required. Otherwise, the `cacheManager` must be specified. The following table shows the supported query parameters:

| Parameter                 | Description  |
|---------------------------|--|
| <code>cacheManager</code> | Name of the cacheManager to qualify the cache. May be omitted if the cache name is unique. |

### 4.2.2. Response Structure

The response contains details of the requested cache. The following table describes the structure of the response:

| Path                      | Type   | Description         |
|---------------------------|--------|---------------------|
| <code>name</code>         | String | Cache name.         |
| <code>cacheManager</code> | String | Cache manager name. |

| Path                | Type                | Description                               |
|---------------------|---------------------|---|
| <code>target</code> | <code>String</code> | Fully qualified name of the native cache. |

## 4.3. Evict All Caches

To clear all available caches, make a `DELETE` request to `/actuator/caches` as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/caches' -i -X DELETE
```

## 4.4. Evict a Cache by Name

To evict a particular cache, make a `DELETE` request to `/actuator/caches/{name}` as shown in the following curl-based example:

```
$ curl
'http://localhost:8080/actuator/caches/countries?cacheManager=anotherCacheManager' -i
-X DELETE \
-H 'Content-Type: application/x-www-form-urlencoded'
```



As there are two caches named `countries`, the `cacheManager` has to be provided to specify which `Cache` should be cleared.

### 4.4.1. Request Structure

If the requested name is specific enough to identify a single cache, no extra parameter is required. Otherwise, the `cacheManager` must be specified. The following table shows the supported query parameters:

| Parameter                 | Description   |
|---------------------------|---|
| <code>cacheManager</code> | Name of the <code>cacheManager</code> to qualify the cache. May be omitted if the cache name is unique. |

# Chapter 5. Conditions Evaluation Report (conditions)

The `conditions` endpoint provides information about the evaluation of conditions on configuration and auto-configuration classes.

## 5.1. Retrieving the Report

To retrieve the report, make a `GET` request to `/actuator/conditions`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/conditions' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 3705

{
  "contexts" : {
    "application" : {
      "positiveMatches" : {
        "EndpointAutoConfiguration#endpointOperationParameterMapper" : [ {
          "condition" : "OnBeanCondition",
          "message" : "@ConditionalOnMissingBean (types:
org.springframework.boot.actuate.endpoint.invoke.ParameterValueMapper; SearchStrategy:
all) did not find any beans"
        } ],
        "JacksonEndpointAutoConfiguration#endpointObjectMapper" : [ {
          "condition" : "OnClassCondition",
          "message" : "@ConditionalOnClass found required classes
'com.fasterxml.jackson.databind.ObjectMapper',
'org.springframework.http.converter.json.Jackson2ObjectMapperBuilder'"
        }, {
          "condition" : "OnPropertyCondition",
          "message" : "@ConditionalOnProperty (management.endpoints.jackson.isolated-
object-mapper) matched"
        } ],
        "EndpointAutoConfiguration#endpointCachingOperationInvokerAdvisor" : [ {
          "condition" : "OnBeanCondition",
          "message" : "@ConditionalOnMissingBean (types:
org.springframework.boot.actuate.endpoint.invoker.cache.CachingOperationInvokerAdvisor
; SearchStrategy: all) did not find any beans"
        } ]
      },
      "negativeMatches" : {
```



```

"WebFluxEndpointManagementContextConfiguration" : {
  "notMatched" : [ {
    "condition" : "OnWebApplicationCondition",
    "message" : "not a reactive web application"
  } ],
  "matched" : [ {
    "condition" : "OnClassCondition",
    "message" : "@ConditionalOnClass found required classes
'org.springframework.web.reactive.DispatcherHandler',
'org.springframework.http.server.reactive.HttpHandler'"
  } ]
},
"GsonHttpMessageConvertersConfiguration.GsonHttpMessageConverterConfiguration"
: {
  "notMatched" : [ {
    "condition" :
"GsonHttpMessageConvertersConfiguration.PreferGsonOrJacksonAndJsonbUnavailableConditio
n",
    "message" : "AnyNestedCondition 0 matched 2 did not; NestedCondition on
GsonHttpMessageConvertersConfiguration.PreferGsonOrJacksonAndJsonbUnavailableConditio
n.JacksonJsonbUnavailable NoneNestedConditions 1 matched 1 did not; NestedCondition on
GsonHttpMessageConvertersConfiguration.JacksonAndJsonbUnavailableCondition.JsonbPrefer
red @ConditionalOnProperty (spring.mvc.converters.preferred-json-mapper=jsonb) did not
find property 'spring.mvc.converters.preferred-json-mapper'; NestedCondition on
GsonHttpMessageConvertersConfiguration.JacksonAndJsonbUnavailableCondition.JacksonAvai
lable @ConditionalOnBean (types:
org.springframework.http.converter.json.MappingJackson2HttpMessageConverter;
SearchStrategy: all) found bean 'mappingJackson2HttpMessageConverter'; NestedCondition
on
GsonHttpMessageConvertersConfiguration.PreferGsonOrJacksonAndJsonbUnavailableConditio
n.GsonPreferred @ConditionalOnProperty (spring.mvc.converters.preferred-json-
mapper=gson) did not find property 'spring.mvc.converters.preferred-json-mapper'"
  } ],
  "matched" : [ ]
},

"WebMvcEndpointManagementContextConfiguration#managementHealthEndpointWebMvcHandlerMap
ping" : {
  "notMatched" : [ {
    "condition" : "OnManagementPortCondition",
    "message" : "Management Port actual port type (SAME) did not match
required type (DIFFERENT)"
  } ],
  "matched" : [ ]
}
},
"unconditionalClasses" : [
"org.springframework.boot.autoconfigure.context.PropertyPlaceholderAutoConfiguration",
"org.springframework.boot.actuate.autoconfigure.endpoint.jackson.JacksonEndpointAutoCo
nfiguration",
"org.springframework.boot.actuate.autoconfigure.endpoint.EndpointAutoConfiguration" ]

```

```

    }
  }
}

```

### 5.1.1. Response Structure

The response contains details of the application's condition evaluation. The following table describes the structure of the response:

| Path   | Type   | Description  |
|--|--------|--|
| <code>contexts</code>  | Object | Application contexts keyed by id.                          |
| <code>contexts.*.positiveMatches</code>                          | Object | Classes and methods with conditions that were matched.     |
| <code>contexts.*.positiveMatches.*.[]condition</code>            | String | Name of the condition.                                     |
| <code>contexts.*.positiveMatches.*.[]message</code>              | String | Details of why the condition was matched.                  |
| <code>contexts.*.negativeMatches</code>                          | Object | Classes and methods with conditions that were not matched. |
| <code>contexts.*.negativeMatches.*.notMatched</code>             | Array  | Conditions that were matched.                              |
| <code>contexts.*.negativeMatches.*.notMatched.[]condition</code> | String | Name of the condition.                                     |
| <code>contexts.*.negativeMatches.*.notMatched.[]message</code>   | String | Details of why the condition was not matched.              |
| <code>contexts.*.negativeMatches.*.matched</code>                | Array  | Conditions that were matched.                              |
| <code>contexts.*.negativeMatches.*.matched.[]condition</code>    | String | Name of the condition.                                     |
| <code>contexts.*.negativeMatches.*.matched.[]message</code>      | String | Details of why the condition was matched.                  |
| <code>contexts.*.unconditionalClasses</code>                     | Array  | Names of unconditional auto-configuration classes if any.  |
| <code>contexts.*.parentId</code>                                 | String | Id of the parent application context, if any.              |

# Chapter 6. Configuration Properties

## (configprops)

The `configprops` endpoint provides information about the application's `@ConfigurationProperties` beans.

### 6.1. Retrieving All `@ConfigurationProperties` Beans

To retrieve all of the `@ConfigurationProperties` beans, make a `GET` request to `/actuator/configprops`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/configprops' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 3411

{
  "contexts" : {
    "application" : {
      "beans" : {
        "management.endpoints.web.cors-
org.springframework.boot.actuate.autoconfigure.endpoint.web.CorsEndpointProperties" :
{
  "prefix" : "management.endpoints.web.cors",
  "properties" : {
    "allowedOrigins" : [ ],
    "maxAge" : "PT30M",
    "exposedHeaders" : [ ],
    "allowedOriginPatterns" : [ ],
    "allowedHeaders" : [ ],
    "allowedMethods" : [ ]
  },
  "inputs" : {
    "allowedOrigins" : [ ],
    "maxAge" : { },
    "exposedHeaders" : [ ],
    "allowedOriginPatterns" : [ ],
    "allowedHeaders" : [ ],
    "allowedMethods" : [ ]
  }
},
    "management.endpoints.web-
org.springframework.boot.actuate.autoconfigure.endpoint.web.WebEndpointProperties" : {
  "prefix" : "management.endpoints.web",
```

```

    "properties" : {
      "pathMapping" : { },
      "exposure" : {
        "include" : [ "*" ],
        "exclude" : [ ]
      },
      "basePath" : "/actuator",
      "discovery" : {
        "enabled" : true
      }
    },
    "inputs" : {
      "pathMapping" : { },
      "exposure" : {
        "include" : [ {
          "value" : "*",
          "origin" : "\"management.endpoints.web.exposure.include\" from
property source \"Inlined Test Properties\""
        } ],
        "exclude" : [ ]
      },
      "basePath" : { },
      "discovery" : {
        "enabled" : { }
      }
    }
  },
  "spring.web-org.springframework.boot.autoconfigure.web.WebProperties" : {
    "prefix" : "spring.web",
    "properties" : {
      "localeResolver" : "ACCEPT_HEADER",
      "resources" : {
        "staticLocations" : [ "classpath:/META-INF/resources/",
"classpath:/resources/", "classpath:/static/", "classpath:/public/" ],
        "addMappings" : true,
        "chain" : {
          "cache" : true,
          "compressed" : false,
          "strategy" : {
            "fixed" : {
              "enabled" : false,
              "paths" : [ "/*" ]
            },
            "content" : {
              "enabled" : false,
              "paths" : [ "/*" ]
            }
          }
        }
      }
    },
    "cache" : {
      "cachecontrol" : { },

```

```

        "useLastModified" : true
      }
    },
    "inputs" : {
      "localeResolver" : { },
      "resources" : {
        "staticLocations" : [ { }, { }, { }, { } ],
        "addMappings" : { },
        "chain" : {
          "cache" : { },
          "compressed" : { },
          "strategy" : {
            "fixed" : {
              "enabled" : { },
              "paths" : [ { } ]
            },
            "content" : {
              "enabled" : { },
              "paths" : [ { } ]
            }
          }
        },
        "cache" : {
          "cachecontrol" : { },
          "useLastModified" : { }
        }
      }
    }
  }
}

```

### 6.1.1. Response Structure

The response contains details of the application’s `@ConfigurationProperties` beans. The following table describes the structure of the response:

| Path                                       | Type                | Description   |
|--|---------------------|---|
| <code>contexts</code>                      | <code>Object</code> | Application contexts keyed by id.                               |
| <code>contexts.*.beans.*</code>            | <code>Object</code> | <code>@ConfigurationProperties</code> beans keyed by bean name. |
| <code>contexts.*.beans.*.prefix</code>     | <code>String</code> | Prefix applied to the names of the bean’s properties.           |
| <code>contexts.*.beans.*.properties</code> | <code>Object</code> | Properties of the bean as name-value pairs.                     |

| Path                                   | Type                | Description  |
|--|---------------------|--|
| <code>contexts.*.beans.*.inputs</code> | <code>Object</code> | Origin and value of the configuration property used when binding to this bean. |
| <code>contexts.*.parentId</code>       | <code>String</code> | Id of the parent application context, if any.                                  |

## 6.2. Retrieving @ConfigurationProperties Beans By Prefix

To retrieve the `@ConfigurationProperties` beans mapped under a certain prefix, make a `GET` request to `/actuator/configprops/{prefix}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/configprops/spring.jackson' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Disposition: inline;filename=f.txt
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 676
```

```
{
  "contexts" : {
    "application" : {
      "beans" : {
        "spring.jackson-
org.springframework.boot.autoconfigure.jackson.JacksonProperties" : {
          "prefix" : "spring.jackson",
          "properties" : {
            "serialization" : { },
            "visibility" : { },
            "parser" : { },
            "deserialization" : { },
            "generator" : { },
            "mapper" : { }
          },
          "inputs" : {
            "serialization" : { },
            "visibility" : { },
            "parser" : { },
            "deserialization" : { },
            "generator" : { },
            "mapper" : { }
          }
        }
      }
    }
  }
}
```



The `{prefix}` does not need to be exact, a more general prefix will return all beans mapped under that prefix stem.

### 6.2.1. Response Structure

The response contains details of the application's `@ConfigurationProperties` beans. The following table describes the structure of the response:

| Path                            | Type   | Description   |
|---------------------------------|--------|---|
| <code>contexts</code>           | Object | Application contexts keyed by id.                               |
| <code>contexts.*.beans.*</code> | Object | <code>@ConfigurationProperties</code> beans keyed by bean name. |

| <b>Path</b>                                | <b>Type</b> | <b>Description</b>   |
|--|-------------|--|
| <code>contexts.*.beans.*.prefix</code>     | String      | Prefix applied to the names of the bean's properties.                          |
| <code>contexts.*.beans.*.properties</code> | Object      | Properties of the bean as name-value pairs.                                    |
| <code>contexts.*.beans.*.inputs</code>     | Object      | Origin and value of the configuration property used when binding to this bean. |
| <code>contexts.*.parentId</code>           | String      | Id of the parent application context, if any.                                  |



# Chapter 7. Environment (env)

The `env` endpoint provides information about the application's `Environment`.

## 7.1. Retrieving the Entire Environment

To retrieve the entire environment, make a `GET` request to `/actuator/env`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/env' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 76297

{
  "activeProfiles" : [ ],
  "propertySources" : [ {
    "name" : "servletContextInitParams",
    "properties" : { }
  }, {
    "name" : "systemProperties",
    "properties" : {
      "java.specification.version" : {
        "value" : "17"
      },
      "java.class.path" : {
        "value" : "/home/runner/.gradle/caches/7.6.4/workerMain/gradle-
worker.jar:/home/runner/work/spring-boot-commercial/spring-boot-commercial/spring-
boot-project/spring-boot-actuator-
autoconfigure/build/classes/java/test:/home/runner/work/spring-boot-commercial/spring-
boot-commercial/spring-boot-project/spring-boot-actuator-
autoconfigure/build/resources/test:/home/runner/work/spring-boot-commercial/spring-
boot-commercial/spring-boot-project/spring-boot-actuator-
autoconfigure/build/classes/java/main:/home/runner/work/spring-boot-commercial/spring-
boot-commercial/spring-boot-project/spring-boot-tools/spring-boot-test-
support/build/libs/spring-boot-test-support-3.1.13.5.jar:/home/runner/work/spring-
boot-commercial/spring-boot-commercial/spring-boot-project/spring-boot-
actuator/build/libs/spring-boot-actuator-3.1.13.5.jar:/home/runner/work/spring-boot-
commercial/spring-boot-commercial/spring-boot-project/spring-boot-
autoconfigure/build/libs/spring-boot-autoconfigure-
3.1.13.5.jar:/home/runner/work/spring-boot-commercial/spring-boot-commercial/spring-
boot-project/spring-boot-test/build/libs/spring-boot-test-
3.1.13.5.jar:/home/runner/work/spring-boot-commercial/spring-boot-commercial/spring-
```

boot-project/spring-boot/build/libs/spring-boot-3.1.13.5.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.fasterxml.jackson.dataformat/jackson-dataformat-xml/2.15.4/d302ab26ceaf51ac7b5c8097a94e13da09c5983f/jackson-dataformat-xml-2.15.4.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.fasterxml.jackson.datatype/jackson-datatype-jsr310/2.15.4/7de629770a4559db57128d35ccae7d2fddd35db3/jackson-datatype-jsr310-2.15.4.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.data/spring-data-cassandra/4.1.13/5db0bc0afce29634ce2a437b8e2177b51a7ef78f/spring-data-cassandra-4.1.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.datastax.oss/java-driver-query-builder/4.15.0/308cebab44e688c05ab61390005500d8db231ecd/java-driver-query-builder-4.15.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.datastax.oss/java-driver-core/4.15.0/aedf50875f5be8589770957735d37d2580ca5ac5/java-driver-core-4.15.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.data/spring-data-elasticsearch/5.1.13/17633bae447664aae329aa70b6e181bd651a6aad/spring-data-elasticsearch-5.1.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.flywaydb/flyway-core/9.16.3/ea75bff08a52e6489a3f0b92e913061ff9e9edb3/flyway-core-9.16.3.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.fasterxml.jackson.dataformat/jackson-dataformat-toml/2.15.4/4dde0126d9484603cd1b98e9654827697e16fce/jackson-dataformat-toml-2.15.4.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.glassfish.jersey.media/jersey-media-json-jackson/3.1.8/8902513d06ff9dd4cd10c3d9b8d8e0f64510f309/jersey-media-json-jackson-3.1.8.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.fasterxml.jackson.module/jackson-module-jakarta-xmlbind-annotations/2.15.4/7f58438c63b50081dfebd63b17dabb0df05205a0/jackson-module-jakarta-xmlbind-annotations-2.15.4.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-tracing-reporter-wavefront/1.1.14/2c3422b2b40cc8cae37a7a0b2af269939171c35d/micrometer-tracing-reporter-wavefront-1.1.14.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.wavefront/wavefront-internal-reporter-java/1.7.16/135f9be9f149a6f0614db155ddf51e216d0d2891/wavefront-internal-reporter-java-1.7.16.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.fasterxml.jackson.dataformat/jackson-dataformat-yaml/2.15.4/4a5dcae45b67fe5edbec821711555d30347f69a0/jackson-dataformat-yaml-2.15.4.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.data/spring-data-rest-webmvc/4.1.13/73b0a23e08069e10a1321b36085f67e3e076ff40/spring-data-rest-webmvc-4.1.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.data/spring-data-rest-core/4.1.13/7e41b54be47415fa08024086ac80695a2ad1aeaf/spring-data-rest-core-4.1.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.fasterxml.jackson.datatype/jackson-datatype-jdk8/2.15.4/694777f182334a21bf1aeab1b04cc4398c801f3f/jackson-datatype-jdk8-2.15.4.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.fasterxml.jackson.core/jackson-core/2.15.4/aebe84b45360debad94f692a4074c6aceb535fa0/jackson-core-2.15.4.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.apache.kafka/kafka-

streams/3.4.1/34a015ffb1d600f348ae1c3fd3a64dcbc9314c30/kafka-streams-3.4.1.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.fasterxml.jackson.core/jackson-annotations/2.15.4/5223ea5a9bf52cdc9c5e537a0e52f2432eaf208b/jackson-annotations-2.15.4.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.data/spring-data-couchbase/5.1.13/7dd3002fb6b4777681c9e34b0da06ca5c05d3265/spring-data-couchbase-5.1.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-registry-wavefront/1.11.13/e578dc60310146a61f4d265adbebeba9360cdf68/micrometer-registry-wavefront-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.wavefront/wavefront-sdk-java/3.1.0/56ee4bac09d53a52969a0e5484b1c7f8964f9b9b/wavefront-sdk-java-3.1.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.restdocs/spring-restdocs-mockmvc/3.0.1/105b72b6c72416492cd483045e902a8ba30e2b1b/spring-restdocs-mockmvc-3.0.1.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.restdocs/spring-restdocs-webtestclient/3.0.1/5faab99b39fb34d865aa7d4800e2d22b47491e01/spring-restdocs-webtestclient-3.0.1.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.restdocs/spring-restdocs-core/3.0.1/4fe6b10f656d1fc0f84860f5449866626c4be6b5/spring-restdocs-core-3.0.1.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.fasterxml.jackson.core/jackson-databind/2.15.4/560309fc381f77d4d15c4a4cdaa0db5025c4fd13/jackson-databind-2.15.4.jar:/home/runner/.gradle/caches/modules-2/files-2.1/ch.qos.logback/logback-classic/1.4.14/d98bc162275134cdf1518774da4a2a17ef6fb94d/logback-classic-1.4.14.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.github.benmanes.caffeine/caffeine/3.1.8/24795585df8afaf70a2cd534786904ea5889c047/caffeine-3.1.8.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.hazelcast/hazelcast-spring/5.2.5/7ec6da8c631b76c2ed80cbff152326cda6ec213/hazelcast-spring-5.2.5.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.hazelcast/hazelcast/5.2.5/2039fbff7136395c89a2ce31b5682049845d7a1b/hazelcast-5.2.5.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.zaxxer/HikariCP/5.0.1/a74c7f0a37046846e88d54f7cb6ea6d565c65f9c/HikariCP-5.0.1.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-registry-jmx/1.11.13/d37dfac1effe04950b13ef7f55a346cefcf75733/micrometer-registry-jmx-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.dropwizard.metrics/metrics-jmx/4.2.27/10f1376905dee23aefd18bb83fa90654acc62742/metrics-jmx-4.2.27.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.lettuce/lettuce-core/6.2.7.RELEASE/bcb4ec33d8de130040db068305b85ccd1a0caf81/lettuce-core-6.2.7.RELEASE.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.kafka/spring-kafka/3.0.18/91d3aecba153956ddfa4af75fe827450e3b0893c/spring-kafka-3.0.18.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.cache2k/cache2k-micrometer/2.6.1.Final/58731da010cc872915e012325027954bdc3122c8/cache2k-micrometer-2.6.1.Final.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.hibernate.orm/hibernate-micrometer/6.2.30.Final/5675a58681d9d5a878fc26cfb4da110c4d7cda4f/hibernate-micrometer-6.2.30.Final.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-registry-

stackdriver/1.11.13/a18c74735e5fd837caea9e3ebc4311802c3418c5/micrometer-registry-  
stackdriver-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/io.micrometer/micrometer-registry-  
appoptics/1.11.13/5956b0625b20ec439ecce7a36a680e39fe09eb7d/micrometer-registry-  
appoptics-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/io.micrometer/micrometer-registry-  
atlas/1.11.13/59ac5deffee84fa14b5d1121cd3a34c2abecac8/micrometer-registry-atlas-  
1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-  
registry-datadog/1.11.13/b0ef1b2d2486067817453fe3be545551973c3c97/micrometer-registry-  
datadog-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/io.micrometer/micrometer-registry-  
dynatrace/1.11.13/a28ee7fe50e5f319942c701bebcf68402d546442/micrometer-registry-  
dynatrace-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/io.micrometer/micrometer-registry-  
elastic/1.11.13/3e2f42eeef1e56c961050c95064da2c28a28d3e5/micrometer-registry-elastic-  
1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-  
registry-ganglia/1.11.13/7cc398bac1fad6dfffc27426242873695a523ca82/micrometer-registry-  
ganglia-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/io.micrometer/micrometer-registry-  
graphite/1.11.13/49b98d0fd0980a7e409c95354c627ca7c7975a24/micrometer-registry-  
graphite-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/io.micrometer/micrometer-registry-  
humio/1.11.13/83c6d201db8b39baf7661798da86df35e3c6f4d5/micrometer-registry-humio-  
1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-  
registry-influx/1.11.13/eedf1161b0a98e4452d6dcb7515c3e30c0b4cdc0/micrometer-registry-  
influx-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/io.micrometer/micrometer-registry-  
kairos/1.11.13/20ee39ed3ff8ceb601e7dcccdf5662223c18f1b0e/micrometer-registry-kairos-  
1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-  
registry-new-relic/1.11.13/3546614d77afa335e5db7a07062de6cc2ef4fdde/micrometer-  
registry-new-relic-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/io.micrometer/micrometer-registry-  
otlp/1.11.13/71c14caaf54ce6a22e7397846617956c71adfd5c/micrometer-registry-otlp-  
1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-  
registry-prometheus/1.11.13/4b268e13a21bf39590a95bb64278d0d72148203e/micrometer-  
registry-prometheus-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/io.micrometer/micrometer-registry-  
signalfx/1.11.13/c9727601fe759b1be3a20d97ec995e6ad0e21d16/micrometer-registry-  
signalfx-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/io.micrometer/micrometer-registry-  
statsd/1.11.13/869c8ccac68b1f1a3c05f2825f411f480d8516b/micrometer-registry-statsd-  
1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/org.springframework.batch/spring-batch-  
core/5.0.8/d2b62cbe0a64e9496e60110cb03f0ab697fd3d40/spring-batch-core-  
5.0.8.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.apache.activemq/artemis-  
jakarta-server/2.28.0/1fd59a9818757eb04434f06d61942abe4da19e69/artemis-jakarta-server-  
2.28.0.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/org.apache.activemq/artemis-  
server/2.28.0/697ed2e284e01f757e7187eb1b9b6b733eba5fa6/artemis-server-  
2.28.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-  
core/1.11.13/a26ca84c86012dd781f037d123fc9db97b480bf3/micrometer-core-

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- pool/1.0.8/96648560a264afca6e33128404e99cb12d06cd76/reactor-pool
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- 2.1/io.projectreactor.netty/reactor-netty
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- io/2.4.11/bf3857c566b489367d96defaa84ec2766dfea607/core-io
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2.1/com.google.guava/listenablefuture/9999.0-empty-to-avoid-conflict-with-guava/b421526c5f297295adef1c886e5246c39d4ac629/listenablefuture-9999.0-empty-to-avoid-conflict-with-guava.jar:/home/runner/.gradle/caches/modules-2/files-  
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2.1/io.opentelemetry/opentelemetry-exporter-otlp-common/1.25.0/bbd7ce7c4eb43c48dc4cf1a4be45f709646321e2/opentelemetry-exporter-otlp-common-1.25.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.squareup.retrofit2/converter-moshi/2.9.0/db0979801926e6d39bc2478736145f9761c3e034/converter-moshi-2.9.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.squareup.retrofit2/retrofit/2.9.0/d8fd5da952141a665a403348b74538efc05ff/retrofit-2.9.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.squareup.okhttp3/okhttp/4.10.0/cd63657ac15770ed1420647154c9f44645533bef/okhttp-4.10.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.squareup.okio/okio-jvm/3.0.0/ab5a73fa2ccb4a36b0b5c69fe10b16d0255bcf8/okio-jvm-3.0.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.jetbrains.kotlin/kotlin-stdlib-jdk8/1.8.22/b25c86d47d6b962b9cf0f8c3f320c8a10eea3dd1/kotlin-stdlib-jdk8-1.8.22.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.jetbrains.kotlin/kotlin-stdlib-jdk7/1.8.22/4dabb8248310d833bb6a8b516024a91fd3d275c/kotlin-stdlib-jdk7-1.8.22.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.jetbrains.kotlin/kotlin-stdlib/1.8.22/636bf8b320e7627482771bbac9ed7246773c02bd/kotlin-stdlib-1.8.22.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.jetbrains.kotlin/kotlin-stdlib-common/1.8.22/1a8e3601703ae14bb58757ea6b2d8e8e5935a586/kotlin-stdlib-common-1.8.22.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-commons/1.11.13/6a882f0f9ec857f6f12f6229fc5cf79254160b2a/micrometer-commons-1.11.13.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-codec-http2/4.1.112.Final/7fa28b510f0f16f4d5d7188b86bef59e048f62f9/netty-codec-http2-4.1.112.Final.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-handler-proxy/4.1.112.Final/b23c87a85451b3b0e7c3e8e89698cea6831a8418/netty-handler-proxy-4.1.112.Final.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-codec-http/4.1.112.Final/81af1040bfa977f98dd0e1bd9639513ea862ca04/netty-codec-http-4.1.112.Final.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-resolver-dns-native-macos/4.1.112.Final/5abc86fd98561f7bda897efa29bd96483f86f560/netty-resolver-dns-native-macos-4.1.112.Final-osx-x86\_64.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-resolver-dns-classes-macos/4.1.112.Final/6dc3e7a029636ef56175c407c453d20b64e15fb6/netty-resolver-dns-classes-macos-4.1.112.Final.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-resolver-dns/4.1.112.Final/375872f1c16bb51aac016ff6ee4f5d28b1288d4d/netty-resolver-dns-4.1.112.Final.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-handler/4.1.112.Final/3d5e2d5bcc6baeeb8c13a230980c6132a778e036/netty-handler-4.1.112.Final.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-transport-native-epoll/4.1.112.Final/caed6f2ae7aebcef50098a64f55918cb8550d2d0/netty-transport-native-epoll-4.1.112.Final-linux-x86\_64.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-transport-native-kqueue/4.1.112.Final/d1d1fe291c6812a4460a6015669a8a0517476a62/netty-transport-native-kqueue-4.1.112.Final-osx-x86\_64.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-codec-socks/4.1.112.Final/9aed7e78c467d06a47a45b5b27466380a6427e2f/netty-codec-socks-4.1.112.Final.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty

```

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-2.1/io.opentelemetry/opentelemetry-exporter

```

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-common/1.25.0/3a951b511669350207989e0b4d141d98a88e0fdf/opentelemetry-exporter-common
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context/1.54.0/e5c681b37ce85b8b6347603887a8943737151518/grpc-context-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-  
stub/1.54.0/e0469129d71ad06b025b5eb24d2279410a7b85b7/grpc-stub-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-  
protobuf/1.54.0/d0d38ae1def135fa14784e9192919d8e001ead1a/grpc-protobuf-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-protobuf-  
lite/1.54.0/7a5f88c180260fa024106e8fc7ae39a9ba7b285d/grpc-protobuf-lite-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.api/api-  
common/2.7.0/207192eed1183e25a9731067874968cd45872de4/api-common-  
2.7.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.auto.value/auto-  
value-annotations/1.10.1/9e5162c15f6033c524134cba05a5e93dc1d37c4b/auto-value-  
annotations-1.10.1.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/com.google.auto.value/auto-  
value/1.10.1/e0184c26c3a20257c6fb46eaea16fdd3d7b6d357/auto-value-  
1.10.1.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/com.google.protobuf/protobuf-  
java/3.21.12/5589e79a33cb6509f7e681d7cf4fc59d47c51c71/protobuf-java-  
3.21.12.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.api.grpc/proto-  
google-common-protos/2.15.0/4c4d5db56196c4e14ea2588b6ac2450b243edc54/proto-google-  
common-protos-2.15.0.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/com.google.api/gax/2.24.0/27d1f16868aefc2d5502a2fd888b55162811d6f3/gax-  
2.24.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.auth/google-  
auth-library-credentials/1.16.1/d68b87f7cdb153f3b58a85dbb009797108e0243d/google-auth-  
library-credentials-1.16.1.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/com.google.api/gax-grpc/2.24.0/1b75327e6aefabf4b92e83c88d3ec47d20f71387/gax-grpc-  
2.24.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-  
alts/1.54.0/dca14ffbbd3523c5bbf864126d289b1d720f3690/grpc-alts-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-

grpc/1.54.0/43483a71c5f332fc6daf4c08bbfc3a25fee18419/grpc-grpc-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/com.google.protobuf/protobuf-java-  
util/3.21.12/1a800bf7976d939217c8d91ed9a17d7a78bf2187/protobuf-java-util-  
3.21.12.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.conscrypt/conscrypt-  
openjdk-uber/2.5.2/d858f142ea189c62771c505a6548d8606ac098fe/conscrypt-openjdk-uber-  
2.5.2.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-  
auth/1.54.0/d4f76fade0dbd79893e2aa99a1176a95047c23d1/grpc-auth-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-netty-  
shaded/1.54.0/d804b9173008af4c1c90800e13408907cf563be0/grpc-netty-shaded-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.perfmark/perfmark-  
api/0.26.0/ef65452adaf20bf7d12ef55913aba24037b82738/perfmark-api-  
0.26.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-  
core/1.54.0/4202e6edb763b4210be9b0990f4565e90c63884b/grpc-core-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/com.google.android.annotations/4.1.1.4/a1678ba907bf92691d879fef34e1a187038f9259/an-  
notations-4.1.1.4.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/org.codehaus.mojo/animal-sniffer-  
annotations/1.23/3c0daebd5f0e1ce72cc50c818321ac957aeb5d70/animal-sniffer-annotations-  
1.23.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-  
googleapis/1.54.0/2c4c5c2175d35d21c375267fae1659c51befaa96/grpc-googleapis-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-  
xds/1.54.0/74dd395a45edc02021c64c8c96ed2c2f1cbf83db/grpc-xds-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.opencensus/opencensus-  
proto/0.2.0/c05b6b32b69d5d9144087ea0ebc6fab183fb9151/opencensus-proto-  
0.2.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-  
services/1.54.0/53ba634410923003bb064b53b7e2f4eeb180d48c/grpc-services-  
1.54.0.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/com.google.re2j/re2j/1.6/a13e879fd7971738d06020fefeb108cc14e14169/re2j-  
1.6.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/org.threeten/threetenbp/1.6.7/d5cdf5505b1d9d16e0445fdecf8aee4beef0e14/threetenbp-  
1.6.7.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.wildfly.common/wildfly-  
common/1.5.4.Final/735ceee5616d5143bac1bc740e444697073c002f/wildfly-common-  
1.5.4.Final.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/org.apache.activemq/activemq-artemis-  
native/2.0.0/a1bdd3cea7822f3b90063456b0c9928702076bd1/activemq-artemis-native-  
2.0.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.jctools/jctools-  
core/2.1.2/8ec46a6a26e7c1c7e57e2590a043238ffc462144/jctools-core-  
2.1.2.jar:/home/runner/.gradle/caches/modules-2/files-2.1/net.minidev/accessors-  
smart/2.4.11/245ceca7bdf3190fbb977045c852d5f3c8efece1/accessors-smart-  
2.4.11.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.glassfish.hk2/osgi-  
resource-locator/1.0.3/de3b21279df7e755e38275137539be5e2c80dd58/osgi-resource-locator-  
1.0.3.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.glassfish.hk2/class-  
model/3.0.6/cdb59ed7b763f2fbee0a5595b2d1bad91d22f27f/class-model-  
3.0.6.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/org.javassist/javassist/3.30.2-  
GA/284580b5e42dfa1b8267058566435d9e93fae7f7/javassist-3.30.2-  
GA.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/org.opentest4j/opentest4j/1.2.0/28c11eb91f9b6d8e200631d46e20a7f407f2a046/opentest4-  
j-1.2.0.jar:/home/runner/.gradle/caches/modules-2/files-  
2.1/org.acplt.remotetea/remotetea-

```

oncrpc/1.1.2/705c490ad22ff4627389853439f9decf5ee69be/remotetea-oncrpc-
1.1.2.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.tdunning/t-
digest/3.2/2ab94758b0276a8a26102adf8d528cf6d0567b9a/t-digest-
3.2.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.atteo/evo-
inflector/1.3/4cf8b5f363c60e63f8b7688ac053590460f2768e/evo-inflector-
1.3.jar:/home/runner/.gradle/caches/modules-2/files-2.1/commons-collections/commons-
collections/3.2.2/8ad72fe39fa8c91eaaf12aadb21e0c3661fe26d5/commons-collections-
3.2.2.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/com.github.jnr/jffi/1.3.9/b776ea131fa693af2c943368b52acf94131cbd7/jffi-
1.3.9.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/com.github.jnr/jffi/1.3.9/163d683f80c06911f3e770c723d6e399e4c59448/jffi-1.3.9-
native.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.ow2.asm/asm-
util/9.2/fbc178fc5ba3dab50fd7e8a5317b8b647c8e8946/asm-util-
9.2.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.ow2.asm/asm-
commons/9.6/f1a9e5508eff490744144565c47326c8648be309/asm-commons-
9.6.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.ow2.asm/asm-
analysis/9.2/7487dd756daf96cab9986e44b9d7bcb796a61c10/asm-analysis-
9.2.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.ow2.asm/asm-
tree/9.6/c0cdda9d211e965d2a4448aa3fd86110f2f8c2de/asm-tree-
9.6.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/org.ow2.asm/asm/9.6/aa205cf0a06dbd8e04ece91c0b37c3f5d567546a/asm-
9.6.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.github.jnr/jnr-
a64asm/1.0.0/a1cb8dbe71b5a6a0288043c3ba3ca64545be165/jnr-a64asm-
1.0.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.github.jnr/jnr-
x86asm/1.0.2/6936bbd6c5b235665d87bd450f5e13b52d4b48/jnr-x86asm-
1.0.2.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/org.jetbrains/annotations/13.0/919f0dfe192fb4e063e7dacadee7f8bb9a2672a9/annotation
s-13.0.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/org.glassfish.hk2.external/aopalliance-
repackaged/3.0.6/e3c3f17b649c97155640616026bd32b1043b3c1d/aopalliance-repackaged-
3.0.6.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.querydsl/codegen-
utils/5.0.0/ff8a2ebbc3a317715de0ce2856c2024534d18a1a/codegen-utils-
5.0.0.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/io.github.classgraph/classgraph/4.8.108/1c175d4ce7a1fa67463bad731f37f1a284dab790/c
lassgraph-4.8.108.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/org.eclipse.jdt/ecj/3.26.0/4837be609a3368a0f7e7cf0dc1bdbc7fe94993de/ecj-
3.26.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.mysema.commons/mysema-
commons-lang/0.2.4/d09c8489d54251a6c22fbce804bdd4a070557317/mysema-commons-lang-
0.2.4.jar"
    },
    "java.vm.vendor" : {
        "value" : "BellSoft"
    }
}
}, {
    "name" : "systemEnvironment",
    "properties" : {
        "JAVA_HOME" : {
            "value" : "/opt/hostedtoolcache/Java_Liberica_jdk/17.0.13-12/x64",
            "origin" : "System Environment Property \"JAVA_HOME\""
        }
    }
}

```

```

    }
  }, {
    "name" : "Config resource 'class path resource [application.properties]' via
location 'classpath:/'",
    "properties" : {
      "com.example.cache.max-size" : {
        "value" : "1000",
        "origin" : "class path resource [application.properties] - 1:29"
      }
    }
  }
} ]
}

```



Sanitization of sensitive values has been switched off for this example.

### 7.1.1. Response Structure

The response contains details of the application's **Environment**. The following table describes the structure of the response:

| Path  | Type   | Description   |
|---|--------|---|
| <code>activeProfiles</code>                         | Array  | Names of the active profiles, if any.                     |
| <code>propertySources</code>                        | Array  | Property sources in order of precedence.                  |
| <code>propertySources.[].name</code>                | String | Name of the property source.                              |
| <code>propertySources.[].properties</code>          | Object | Properties in the property source keyed by property name. |
| <code>propertySources.[].properties.*.value</code>  | String | Value of the property.                                    |
| <code>propertySources.[].properties.*.origin</code> | String | Origin of the property, if any.                           |

## 7.2. Retrieving a Single Property

To retrieve a single property, make a **GET** request to `/actuator/env/{property.name}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/env/com.example.cache.max-size' -i -X GET
```

The preceding example retrieves information about the property named `com.example.cache.max-size`. The resulting response is similar to the following:



```
HTTP/1.1 200 OK
Content-Disposition: inline;filename=f.txt
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 455
```

```
{"property":{"source":"Config resource 'class path resource [application.properties]'
via location
'classpath:/'", "value":"1000"}, "activeProfiles":[], "propertySources":[{"name":"servlet
ContextInitParams"}, {"name":"systemProperties"}, {"name":"systemEnvironment"}, {"name":"
Config resource 'class path resource [application.properties]' via location
'classpath:/'", "property":{"value":"1000", "origin":"class path resource
[application.properties] - 1:29"}}]}
```



Sanitization of sensitive values has been switched off for this example.

### 7.2.1. Response Structure

The response contains details of the requested property. The following table describes the structure of the response:

| Path   | Type   | Description                              |
|--|--------|--|
| <code>property</code>                          | Object | Property from the environment, if found. |
| <code>property.source</code>                   | String | Name of the source of the property.      |
| <code>property.value</code>                    | String | Value of the property.                   |
| <code>activeProfiles</code>                    | Array  | Names of the active profiles, if any.    |
| <code>propertySources</code>                   | Array  | Property sources in order of precedence. |
| <code>propertySources[].name</code>            | String | Name of the property source.             |
| <code>propertySources[].property</code>        | Object | Property in the property source, if any. |
| <code>propertySources[].property.value</code>  | Varies | Value of the property.                   |
| <code>propertySources[].property.origin</code> | String | Origin of the property, if any.          |

# Chapter 8. Flyway (flyway)

The `flyway` endpoint provides information about database migrations performed by Flyway.

## 8.1. Retrieving the Migrations

To retrieve the migrations, make a `GET` request to `/actuator/flyway`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/flyway' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 515

{
  "contexts" : {
    "application" : {
      "flywayBeans" : {
        "flyway" : {
          "migrations" : [ {
            "type" : "SQL",
            "checksum" : -156244537,
            "version" : "1",
            "description" : "init",
            "script" : "V1__init.sql",
            "state" : "SUCCESS",
            "installedBy" : "SA",
            "installedOn" : "2024-11-19T01:38:09.885Z",
            "installedRank" : 1,
            "executionTime" : 1
          } ]
        }
      }
    }
  }
}
```

### 8.1.1. Response Structure

The response contains details of the application's Flyway migrations. The following table describes the structure of the response:

| Path   | Type   | Description  |
|--|--------|--|
| <code>contexts</code>  | Object | Application contexts keyed by id   |
| <code>contexts.*.flywayBeans.*.migrations</code>                 | Array  | Migrations performed by the Flyway instance, keyed by Flyway bean name.  |
| <code>contexts.*.flywayBeans.*.migrations[].checksum</code>      | Number | Checksum of the migration, if any.   |
| <code>contexts.*.flywayBeans.*.migrations[].description</code>   | String | Description of the migration, if any.  |
| <code>contexts.*.flywayBeans.*.migrations[].executionTime</code> | Number | Execution time in milliseconds of an applied migration.  |
| <code>contexts.*.flywayBeans.*.migrations[].installedBy</code>   | String | User that installed the applied migration, if any.   |
| <code>contexts.*.flywayBeans.*.migrations[].installedOn</code>   | String | Timestamp of when the applied migration was installed, if any.   |
| <code>contexts.*.flywayBeans.*.migrations[].installedRank</code> | Number | Rank of the applied migration, if any. Later migrations have higher ranks.   |
| <code>contexts.*.flywayBeans.*.migrations[].script</code>        | String | Name of the script used to execute the migration, if any.  |
| <code>contexts.*.flywayBeans.*.migrations[].state</code>         | String | State of the migration. (PENDING, ABOVE_TARGET, BELOW_BASELINE, BASELINE_IGNORED, BASELINE_IGNORED, MISSING_SUCCESS, MISSING_FAILED, SUCCESS, UNDONE, AVAILABLE, FAILED, OUT_OF_ORDER, FUTURE_SUCCESS, FUTURE_FAILED, OUTDATED, SUPERSEDED, DELETED) |
| <code>contexts.*.flywayBeans.*.migrations[].type</code>          | String | Type of the migration.   |
| <code>contexts.*.flywayBeans.*.migrations[].version</code>       | String | Version of the database after applying the migration, if any.  |
| <code>contexts.*.parentId</code>                                 | String | Id of the parent application context, if any.  |

# Chapter 9. Health (health)

The `health` endpoint provides detailed information about the health of the application.

## 9.1. Retrieving the Health of the Application

To retrieve the health of the application, make a `GET` request to `/actuator/health`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/health' -i -X GET \  
-H 'Accept: application/json'
```

The resulting response is similar to the following:

HTTP/1.1 200 OK

Content-Type: application/json

Content-Length: 845

```
{
  "status" : "UP",
  "components" : {
    "broker" : {
      "status" : "UP",
      "components" : {
        "us1" : {
          "status" : "UP",
          "details" : {
            "version" : "1.0.2"
          }
        },
        "us2" : {
          "status" : "UP",
          "details" : {
            "version" : "1.0.4"
          }
        }
      }
    },
    "db" : {
      "status" : "UP",
      "details" : {
        "database" : "H2",
        "validationQuery" : "isValid()"
      }
    },
    "diskSpace" : {
      "status" : "UP",
      "details" : {
        "total" : 155897610240,
        "free" : 116494876672,
        "threshold" : 10485760,
        "path" : "/home/runner/work/spring-boot-commercial/spring-boot-
commercial/spring-boot-project/spring-boot-actuator-autoconfigure/.",
        "exists" : true
      }
    }
  }
}
```

### 9.1.1. Response Structure

The response contains details of the health of the application. The following table describes the structure of the response:

| Path                                 | Type   | Description   |
|--------------------------------------|--------|---|
| <code>status</code>                  | String | Overall status of the application.  |
| <code>components</code>              | Object | The components that make up the health.   |
| <code>components.*.status</code>     | String | Status of a specific part of the application.   |
| <code>components.*.components</code> | Object | The nested components that make up the health.  |
| <code>components.*.details</code>    | Object | Details of the health of a specific part of the application. Presence is controlled by <code>management.endpoint.health.show-details</code> . |



The response fields above are for the V3 API. If you need to return V2 JSON you should use an accept header or `application/vnd.spring-boot.actuator.v2+json`

## 9.2. Retrieving the Health of a Component

To retrieve the health of a particular component of the application's health, make a `GET` request to `/actuator/health/{component}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/health/db' -i -X GET \
-H 'Accept: application/json'
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 101

{
  "status" : "UP",
  "details" : {
    "database" : "H2",
    "validationQuery" : "isValid()"
  }
}
```

### 9.2.1. Response Structure

The response contains details of the health of a particular component of the application's health. The following table describes the structure of the response:

| Path                 | Type   | Description  |
|----------------------|--------|--|
| <code>status</code>  | String | Status of a specific part of the application                 |
| <code>details</code> | Object | Details of the health of a specific part of the application. |

## 9.3. Retrieving the Health of a Nested Component

If a particular component contains other nested components (as the `broker` indicator in the example above), the health of such a nested component can be retrieved by issuing a `GET` request to `/actuator/health/{component}/{subcomponent}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/health/broker/us1' -i -X GET \
-H 'Accept: application/json'
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 66

{
  "status" : "UP",
  "details" : {
    "version" : "1.0.2"
  }
}
```

Components of an application's health may be nested arbitrarily deep depending on the application's health indicators and how they have been grouped. The health endpoint supports any number of `{component}` identifiers in the URL to allow the health of a component at any depth to be retrieved.

### 9.3.1. Response Structure

The response contains details of the health of an instance of a particular component of the application. The following table describes the structure of the response:

| Path                 | Type                | Description  |
|----------------------|---------------------|--|
| <code>status</code>  | <code>String</code> | Status of a specific part of the application                 |
| <code>details</code> | <code>Object</code> | Details of the health of a specific part of the application. |

# Chapter 10. Heap Dump (heapdump)

The `heapdump` endpoint provides a heap dump from the application's JVM.

## 10.1. Retrieving the Heap Dump

To retrieve the heap dump, make a `GET` request to `/actuator/heapdump`. The response is binary data and can be large. Its format depends upon the JVM on which the application is running. When running on a HotSpot JVM the format is `HPROF` and on OpenJ9 it is `PHD`. Typically, you should save the response to disk for subsequent analysis. When using `curl`, this can be achieved by using the `-O` option, as shown in the following example:

```
$ curl 'http://localhost:8080/actuator/heapdump' -O
```

The preceding example results in a file named `heapdump` being written to the current working directory.



# Chapter 11. HTTP Exchanges (`httpexchanges`)

The `httpexchanges` endpoint provides information about HTTP request-response exchanges.

## 11.1. Retrieving the HTTP Exchanges

To retrieve the HTTP exchanges, make a `GET` request to `/actuator/httpexchanges`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/httpexchanges' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 511

{
  "exchanges" : [ {
    "timestamp" : "2022-12-22T13:43:41Z",
    "request" : {
      "uri" : "https://api.example.com",
      "method" : "GET",
      "headers" : {
        "Accept" : [ "application/json" ]
      }
    },
    "response" : {
      "status" : 200,
      "headers" : {
        "Content-Type" : [ "application/json" ]
      }
    },
    "principal" : {
      "name" : "alice"
    },
    "session" : {
      "id" : "8abe4711-fb0c-4da2-8d2d-6515d0a4fe04"
    },
    "timeTaken" : "PT0.023S"
  } ]
}
```

### 11.1.1. Response Structure

The response contains details of the traced HTTP request-response exchanges. The following table describes the structure of the response:

| Path                              | Type   | Description   |
|-----------------------------------|--------|---|
| exchanges                         | Array  | An array of HTTP request-response exchanges.                  |
| exchanges[].timestamp             | String | Timestamp of when the exchange occurred.                      |
| exchanges[].principal             | Object | Principal of the exchange, if any.                            |
| exchanges[].principal.name        | String | Name of the principal.  |
| exchanges[].request.method        | String | HTTP method of the request.                                   |
| exchanges[].request.remoteAddress | String | Remote address from which the request was received, if known. |
| exchanges[].request.uri           | String | URI of the request.   |
| exchanges[].request.headers       | Object | Headers of the request, keyed by header name.                 |
| exchanges[].request.headers.*.[]  | Array  | Values of the header  |
| exchanges[].response.status       | Number | Status of the response  |
| exchanges[].response.headers      | Object | Headers of the response, keyed by header name.                |
| exchanges[].response.headers.*.[] | Array  | Values of the header  |
| exchanges[].session               | Object | Session associated with the exchange, if any.                 |
| exchanges[].session.id            | String | ID of the session.  |
| exchanges[].timeTaken             | String | Time taken to handle the exchange.                            |

# Chapter 12. Info (*info*)

The *info* endpoint provides general information about the application.

## 12.1. Retrieving the Info

To retrieve the information about the application, make a *GET* request to */actuator/info*, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/info' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 231

{
  "git" : {
    "branch" : "main",
    "commit" : {
      "id" : "df027cf",
      "time" : "2024-11-19T01:38:10Z"
    }
  },
  "build" : {
    "artifact" : "application",
    "version" : "1.0.3",
    "group" : "com.example"
  }
}
```

### 12.1.1. Response Structure

The response contains general information about the application. Each section of the response is contributed by an *InfoContributor*. Spring Boot provides several contributors that are described below.

#### Build Response Structure

The following table describe the structure of the *build* section of the response:

| Path            | Type          | Description                             |
|-----------------|---------------|---|
| <i>artifact</i> | <i>String</i> | Artifact ID of the application, if any. |
| <i>group</i>    | <i>String</i> | Group ID of the application, if any.    |

| Path                 | Type                | Description  |
|----------------------|---------------------|--|
| <code>name</code>    | <code>String</code> | Name of the application, if any.                     |
| <code>version</code> | <code>String</code> | Version of the application, if any.                  |
| <code>time</code>    | <code>Varies</code> | Timestamp of when the application was built, if any. |

### Git Response Structure

The following table describes the structure of the `git` section of the response:

| Path                     | Type                | Description                        |
|--------------------------|---------------------|------------------------------------|
| <code>branch</code>      | <code>String</code> | Name of the Git branch, if any.    |
| <code>commit</code>      | <code>Object</code> | Details of the Git commit, if any. |
| <code>commit.time</code> | <code>Varies</code> | Timestamp of the commit, if any.   |
| <code>commit.id</code>   | <code>String</code> | ID of the commit, if any.          |



This is the "simple" output. The contributor can also be configured to output all available data.

# Chapter 13. Spring Integration graph (`integrationgraph`)

The `integrationgraph` endpoint exposes a graph containing all Spring Integration components.

## 13.1. Retrieving the Spring Integration Graph

To retrieve the information about the application, make a `GET` request to `/actuator/integrationgraph`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/integrationgraph' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 1034
```

```
{
  "contentDescriptor" : {
    "providerVersion" : "6.1.10",
    "providerFormatVersion" : 1.2,
    "provider" : "spring-integration"
  },
  "nodes" : [ {
    "nodeId" : 1,
    "componentType" : "null-channel",
    "integrationPatternType" : "null_channel",
    "integrationPatternCategory" : "messaging_channel",
    "properties" : { },
    "name" : "nullChannel",
    "observed" : false
  }, {
    "nodeId" : 2,
    "componentType" : "publish-subscribe-channel",
    "integrationPatternType" : "publish_subscribe_channel",
    "integrationPatternCategory" : "messaging_channel",
    "properties" : { },
    "name" : "errorChannel",
    "observed" : false
  }, {
    "nodeId" : 3,
    "componentType" : "logging-channel-adapter",
    "integrationPatternType" : "outbound_channel_adapter",
    "integrationPatternCategory" : "messaging_endpoint",
    "properties" : { },
    "input" : "errorChannel",
    "name" : "errorLogger",
    "observed" : false
  } ],
  "links" : [ {
    "from" : 2,
    "to" : 3,
    "type" : "input"
  } ]
}
```

### 13.1.1. Response Structure

The response contains all Spring Integration components used within the application, as well as the links between them. More information about the structure can be found in the [reference documentation](#).

## 13.2. Rebuilding the Spring Integration Graph

To rebuild the exposed graph, make a **POST** request to `/actuator/integrationgraph`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/integrationgraph' -i -X POST
```

This will result in a **204 - No Content** response:

```
HTTP/1.1 204 No Content
```

# Chapter 14. Liquibase (liquibase)

The `liquibase` endpoint provides information about database change sets applied by Liquibase.

## 14.1. Retrieving the Changes

To retrieve the changes, make a `GET` request to `/actuator/liquibase`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/liquibase' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 677

{
  "contexts" : {
    "application" : {
      "liquibaseBeans" : {
        "liquibase" : {
          "changeSets" : [ {
            "author" : "marceloverdijk",
            "changeLog" : "db/changelog/db.changelog-master.yaml",
            "comments" : "",
            "contexts" : [ ],
            "dateExecuted" : "2024-11-19T01:38:11.608Z",
            "deploymentId" : "1980291587",
            "description" : "createTable tableName=customer",
            "execType" : "EXECUTED",
            "id" : "1",
            "labels" : [ ],
            "checksum" : "8:46debf252cce6d7b25e28ddeb9fc4bf6",
            "orderExecuted" : 1
          } ]
        }
      }
    }
  }
}
```

### 14.1.1. Response Structure

The response contains details of the application's Liquibase change sets. The following table describes the structure of the response:



| Path   | Type   | Description   |
|--|--------|---|
| contexts   | Object | Application contexts keyed by id  |
| contexts.*.liquibaseBeans.*.changeSets                 | Array  | Change sets made by the Liquibase beans, keyed by bean name.  |
| contexts.*.liquibaseBeans.*.changeSets[].author        | String | Author of the change set.   |
| contexts.*.liquibaseBeans.*.changeSets[].changeLog     | String | Change log that contains the change set.  |
| contexts.*.liquibaseBeans.*.changeSets[].comments      | String | Comments on the change set.   |
| contexts.*.liquibaseBeans.*.changeSets[].contexts      | Array  | Contexts of the change set.   |
| contexts.*.liquibaseBeans.*.changeSets[].dateExecuted  | String | Timestamp of when the change set was executed.  |
| contexts.*.liquibaseBeans.*.changeSets[].deploymentId  | String | ID of the deployment that ran the change set.   |
| contexts.*.liquibaseBeans.*.changeSets[].description   | String | Description of the change set.  |
| contexts.*.liquibaseBeans.*.changeSets[].execType      | String | Execution type of the change set ( <b>EXECUTED</b> , <b>FAILED</b> , <b>SKIPPED</b> , <b>RERAN</b> , <b>MARK_RAN</b> ). |
| contexts.*.liquibaseBeans.*.changeSets[].id            | String | ID of the change set.   |
| contexts.*.liquibaseBeans.*.changeSets[].labels        | Array  | Labels associated with the change set.  |
| contexts.*.liquibaseBeans.*.changeSets[].checksum      | String | Checksum of the change set.   |
| contexts.*.liquibaseBeans.*.changeSets[].orderExecuted | Number | Order of the execution of the change set.   |
| contexts.*.liquibaseBeans.*.changeSets[].tag           | String | Tag associated with the change set, if any.   |
| contexts.*.parentId                                    | String | Id of the parent application context, if any.   |

# Chapter 15. Log File (logfile)

The `logfile` endpoint provides access to the contents of the application's log file.

## 15.1. Retrieving the Log File

To retrieve the log file, make a `GET` request to `/actuator/logfile`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/logfile' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Accept-Ranges: bytes
Content-Type: text/plain;charset=UTF-8
Content-Length: 4715

.
/\ / _ _ _ _ ' _ _ _ _ ( _ ) _ _ _ _ _ _ _ _ \ \ \ \ \
( ( ) \ _ _ | ' _ | ' _ | | ' _ \ _ ' | \ \ \ \ \
\ \ _ _ _ | | _ | | | | | | | ( _ | | ) ) ) )
' | _ _ _ | . _ _ | | _ _ | | \ _ _ , | / / / /
=====|_|=====|_ _ _ / = / _ / _ / _ /
:: Spring Boot ::

2017-08-08 17:12:30.910 INFO 19866 --- [           main]
s.f.SampleWebFreeMarkerApplication : Starting SampleWebFreeMarkerApplication
with PID 19866
2017-08-08 17:12:30.913 INFO 19866 --- [           main]
s.f.SampleWebFreeMarkerApplication : No active profile set, falling back to
default profiles: default
2017-08-08 17:12:30.952 INFO 19866 --- [           main]
ConfigServletWebServerApplicationContext : Refreshing
org.springframework.boot.web.servlet.context.AnnotationConfigServletWebServerApplicati
onContext@76b10754: startup date [Tue Aug 08 17:12:30 BST 2017]; root of context
hierarchy
2017-08-08 17:12:31.878 INFO 19866 --- [           main]
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080
(http)
2017-08-08 17:12:31.889 INFO 19866 --- [           main]
o.apache.catalina.core.StandardService : Starting service [Tomcat]
2017-08-08 17:12:31.890 INFO 19866 --- [           main]
org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache
Tomcat/8.5.16
2017-08-08 17:12:31.978 INFO 19866 --- [ost-startStop-1]
o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded
WebApplicationContext
```

```

2017-08-08 17:12:31.978 INFO 19866 --- [ost-startStop-1]
o.s.web.context.ContextLoader      : Root WebApplicationContext: initialization
completed in 1028 ms
2017-08-08 17:12:32.080 INFO 19866 --- [ost-startStop-1]
o.s.b.w.servlet.ServletRegistrationBean : Mapping servlet: 'dispatcherServlet' to [/]
2017-08-08 17:12:32.084 INFO 19866 --- [ost-startStop-1]
o.s.b.w.servlet.FilterRegistrationBean  : Mapping filter: 'characterEncodingFilter'
to: [/*]
2017-08-08 17:12:32.084 INFO 19866 --- [ost-startStop-1]
o.s.b.w.servlet.FilterRegistrationBean  : Mapping filter: 'hiddenHttpMethodFilter'
to: [/*]
2017-08-08 17:12:32.084 INFO 19866 --- [ost-startStop-1]
o.s.b.w.servlet.FilterRegistrationBean  : Mapping filter: 'httpPutFormContentFilter'
to: [/*]
2017-08-08 17:12:32.084 INFO 19866 --- [ost-startStop-1]
o.s.b.w.servlet.FilterRegistrationBean  : Mapping filter: 'requestContextFilter' to:
[/*]
2017-08-08 17:12:32.349 INFO 19866 --- [          main]
s.w.s.m.m.a.RequestMappingHandlerAdapter : Looking for @ControllerAdvice:
org.springframework.boot.web.servlet.context.AnnotationConfigServletWebServerApplicati
onContext@76b10754: startup date [Tue Aug 08 17:12:30 BST 2017]; root of context
hierarchy
2017-08-08 17:12:32.420 INFO 19866 --- [          main]
s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/error]}" onto public
org.springframework.http.ResponseEntity<java.util.Map<java.lang.String,
java.lang.Object>>
org.springframework.boot.autoconfigure.web.servlet.error.BasicErrorController.error(ja
karta.servlet.http.HttpServletRequest)
2017-08-08 17:12:32.421 INFO 19866 --- [          main]
s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/error],produces=[text/html]}"
onto public org.springframework.web.servlet.ModelAndView
org.springframework.boot.autoconfigure.web.servlet.error.BasicErrorController.errorHtm
l(jakarta.servlet.http.HttpServletRequest,jakarta.servlet.http.HttpServletResponse)
2017-08-08 17:12:32.444 INFO 19866 --- [          main]
o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/webjars/**] onto handler
of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2017-08-08 17:12:32.444 INFO 19866 --- [          main]
o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**] onto handler of type
[class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2017-08-08 17:12:32.471 INFO 19866 --- [          main]
o.s.w.s.handler.SimpleUrlHandlerMapping : Mapped URL path [/**/favicon.ico] onto
handler of type [class
org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2017-08-08 17:12:32.600 INFO 19866 --- [          main]
o.s.w.s.v.f.FreeMarkerConfigurer      : ClassTemplateLoader for Spring macros added
to FreeMarker configuration
2017-08-08 17:12:32.681 INFO 19866 --- [          main]
o.s.j.e.a.AnnotationMBeanExporter      : Registering beans for JMX exposure on
startup
2017-08-08 17:12:32.744 INFO 19866 --- [          main]
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http)

```

```
2017-08-08 17:12:32.750 INFO 19866 --- [          main]
s.f.SampleWebFreeMarkerApplication      : Started SampleWebFreeMarkerApplication in
2.172 seconds (JVM running for 2.479)
```

## 15.2. Retrieving Part of the Log File



Retrieving part of the log file is not supported when using Jersey.

To retrieve part of the log file, make a **GET** request to `/actuator/logfile` by using the **Range** header, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/logfile' -i -X GET \
-H 'Range: bytes=0-1023'
```

The preceding example retrieves the first 1024 bytes of the log file. The resulting response is similar to the following:

```
HTTP/1.1 206 Partial Content
Accept-Ranges: bytes
Content-Type: text/plain;charset=UTF-8
Content-Range: bytes 0-1023/4715
Content-Length: 1024

.
/\ / _ _ _ ' _ _ _ _ ( _ ) _ _ _ _ _ _ \ \ \ \ \
( ( ) \ _ _ | ' _ | ' _ | | ' _ \ _ ' | \ \ \ \ \
\ \ \ _ _ ) | | _ | | | | | | | ( _ | | ) ) ) )
' | _ _ _ | . _ _ | | _ | | \ _ _ , | / / / /
=====|_|=====|___/=/_/_/_/
:: Spring Boot ::

2017-08-08 17:12:30.910 INFO 19866 --- [          main]
s.f.SampleWebFreeMarkerApplication      : Starting SampleWebFreeMarkerApplication
with PID 19866
2017-08-08 17:12:30.913 INFO 19866 --- [          main]
s.f.SampleWebFreeMarkerApplication      : No active profile set, falling back to
default profiles: default
2017-08-08 17:12:30.952 INFO 19866 --- [          main]
ConfigServletWebServerApplicationContext : Refreshing
org.springframework.boot.web.servlet.context.AnnotationConfigServletWebServerApplicati
onContext@76b10754: startup date [Tue Aug 08 17:12:30 BST 2017]; root of context
hierarchy
2017-08-08 17:12:31.878 INFO 19866 --- [          main]
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http
```

# Chapter 16. Loggers (loggers)

The `loggers` endpoint provides access to the application's loggers and the configuration of their levels.

## 16.1. Retrieving All Loggers

To retrieve the application's loggers, make a `GET` request to `/actuator/loggers`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 791

{
  "levels" : [ "OFF", "FATAL", "ERROR", "WARN", "INFO", "DEBUG", "TRACE" ],
  "loggers" : {
    "ROOT" : {
      "configuredLevel" : "INFO",
      "effectiveLevel" : "INFO"
    },
    "com.example" : {
      "configuredLevel" : "DEBUG",
      "effectiveLevel" : "DEBUG"
    }
  },
  "groups" : {
    "test" : {
      "configuredLevel" : "INFO",
      "members" : [ "test.member1", "test.member2" ]
    },
    "web" : {
      "members" : [ "org.springframework.core.codec", "org.springframework.http",
"org.springframework.web", "org.springframework.boot.actuate.endpoint.web",
"org.springframework.boot.web.servlet.ServletContextInitializerBeans" ]
    },
    "sql" : {
      "members" : [ "org.springframework.jdbc.core", "org.hibernate.SQL",
"org.jooq.tools.LoggerListener" ]
    }
  }
}
```

### 16.1.1. Response Structure

The response contains details of the application's loggers. The following table describes the structure of the response:

| Path                                   | Type   | Description                                   |
|--|--------|---|
| <code>levels</code>                    | Array  | Levels support by the logging system.         |
| <code>loggers</code>                   | Object | Loggers keyed by name.                        |
| <code>groups</code>                    | Object | Logger groups keyed by name                   |
| <code>loggers.*.configuredLevel</code> | String | Configured level of the logger, if any.       |
| <code>loggers.*.effectiveLevel</code>  | String | Effective level of the logger.                |
| <code>groups.*.configuredLevel</code>  | String | Configured level of the logger group, if any. |
| <code>groups.*.members</code>          | Array  | Loggers that are part of this group           |

## 16.2. Retrieving a Single Logger

To retrieve a single logger, make a `GET` request to `/actuator/loggers/{logger.name}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers/com.example' -i -X GET
```

The preceding example retrieves information about the logger named `com.example`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Disposition: inline;filename=f.txt
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 61

{
  "configuredLevel" : "INFO",
  "effectiveLevel" : "INFO"
}
```

### 16.2.1. Response Structure

The response contains details of the requested logger. The following table describes the structure of the response:

| Path                         | Type   | Description                             |
|------------------------------|--------|---|
| <code>configuredLevel</code> | String | Configured level of the logger, if any. |

| Path                        | Type                | Description                    |
|-----------------------------|---------------------|--------------------------------|
| <code>effectiveLevel</code> | <code>String</code> | Effective level of the logger. |

## 16.3. Retrieving a Single Group

To retrieve a single group, make a `GET` request to `/actuator/loggers/{group.name}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers/test' -i -X GET
```

The preceding example retrieves information about the logger group named `test`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 82

{
  "configuredLevel" : "INFO",
  "members" : [ "test.member1", "test.member2" ]
}
```

### 16.3.1. Response Structure

The response contains details of the requested group. The following table describes the structure of the response:

| Path                         | Type                | Description                                   |
|------------------------------|---------------------|---|
| <code>configuredLevel</code> | <code>String</code> | Configured level of the logger group, if any. |
| <code>members</code>         | <code>Array</code>  | Loggers that are part of this group           |

## 16.4. Setting a Log Level

To set the level of a logger, make a `POST` request to `/actuator/loggers/{logger.name}` with a JSON body that specifies the configured level for the logger, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers/com.example' -i -X POST \
  -H 'Content-Type: application/json' \
  -d '{"configuredLevel":"debug"}'
```

The preceding example sets the `configuredLevel` of the `com.example` logger to `DEBUG`.

### 16.4.1. Request Structure

The request specifies the desired level of the logger. The following table describes the structure of the request:

| Path                         | Type                | Description  |
|------------------------------|---------------------|--|
| <code>configuredLevel</code> | <code>String</code> | Level for the logger. May be omitted to clear the level. |

## 16.5. Setting a Log Level for a Group

To set the level of a logger, make a `POST` request to `/actuator/loggers/{group.name}` with a JSON body that specifies the configured level for the logger group, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers/test' -i -X POST \  
  -H 'Content-Type: application/json' \  
  -d '{"configuredLevel":"debug"}'
```

The preceding example sets the `configuredLevel` of the `test` logger group to `DEBUG`.

### 16.5.1. Request Structure

The request specifies the desired level of the logger group. The following table describes the structure of the request:

| Path                         | Type                | Description  |
|------------------------------|---------------------|--|
| <code>configuredLevel</code> | <code>String</code> | Level for the logger. May be omitted to clear the level. |

## 16.6. Clearing a Log Level

To clear the level of a logger, make a `POST` request to `/actuator/loggers/{logger.name}` with a JSON body containing an empty object, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers/com.example' -i -X POST \  
  -H 'Content-Type: application/json' \  
  -d '{}'
```

The preceding example clears the configured level of the `com.example` logger.



# Chapter 17. Mappings (mappings)

The `mappings` endpoint provides information about the application's request mappings.

## 17.1. Retrieving the Mappings

To retrieve the mappings, make a `GET` request to `/actuator/mappings`, as shown in the following curl-based example:

```
$ curl 'http://localhost:45171/actuator/mappings' -i -X GET \  
-H 'accept-encoding: gzip' \  
-H 'user-agent: ReactorNetty/1.1.22' \  
-H 'accept: */*'
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK  
Content-Type: application/vnd.spring-boot.actuator.v3+json  
Transfer-Encoding: chunked  
Date: Tue, 19 Nov 2024 01:38:14 GMT  
Content-Length: 5342  
  
{  
  "contexts" : {  
    "application" : {  
      "mappings" : {  
        "dispatcherServlets" : {  
          "dispatcherServlet" : [ {  
            "handler" : "Actuator root web endpoint",  
            "predicate" : "{GET [/actuator], produces [application/vnd.spring-  
boot.actuator.v3+json || application/vnd.spring-boot.actuator.v2+json ||  
application/json]}",  
            "details" : {  
              "handlerMethod" : {  
                "className" :  
"org.springframework.boot.actuate.endpoint.web.servlet.WebMvcEndpointHandlerMapping.Web  
MvcLinksHandler",  
                "name" : "links",  
                "descriptor" :  
"(Ljakarta/servlet/http/HttpServletRequest;Ljakarta/servlet/http/HttpServletResponse;)  
Ljava/util/Map;"  
              },  
              "requestMappingConditions" : {  
                "consumes" : [ ],  
                "headers" : [ ],  
                "methods" : [ "GET" ],  
                "params" : [ ],  
                "patterns" : [ "/actuator" ],
```

```

        "produces" : [ {
            "mediaType" : "application/vnd.spring-boot.actuator.v3+json",
            "negated" : false
        }, {
            "mediaType" : "application/vnd.spring-boot.actuator.v2+json",
            "negated" : false
        }, {
            "mediaType" : "application/json",
            "negated" : false
        } ]
    }
}
}, {
    "handler" : "Actuator web endpoint 'mappings'",
    "predicate" : "{GET [/actuator/mappings], produces
[application/vnd.spring-boot.actuator.v3+json || application/vnd.spring-
boot.actuator.v2+json || application/json]}",
    "details" : {
        "handlerMethod" : {
            "className" :
"org.springframework.boot.actuate.endpoint.web.servlet.AbstractWebMvcEndpointHandlerMa
pping.OperationHandler",
            "name" : "handle",
            "descriptor" :
"(Ljakarta/servlet/http/HttpServletRequest;Ljava/util/Map;)Ljava/lang/Object;"
        },
        "requestMappingConditions" : {
            "consumes" : [ ],
            "headers" : [ ],
            "methods" : [ "GET" ],
            "params" : [ ],
            "patterns" : [ "/actuator/mappings" ],
            "produces" : [ {
                "mediaType" : "application/vnd.spring-boot.actuator.v3+json",
                "negated" : false
            }, {
                "mediaType" : "application/vnd.spring-boot.actuator.v2+json",
                "negated" : false
            }, {
                "mediaType" : "application/json",
                "negated" : false
            } ]
        }
    }
}
}, {
    "handler" :
"org.springframework.boot.actuate.autoconfigure.endpoint.web.documentation.MappingsEnd
pointServletDocumentationTests$ExampleController#example()",
    "predicate" : "{POST [/], params [a!=alpha], headers [X-Custom=Foo],
consumes [application/json || !application/xml], produces [text/plain]}",
    "details" : {

```

```

        "handlerMethod" : {
            "className" :
"org.springframework.boot.actuate.autoconfigure.endpoint.web.documentation.MappingsEnd
pointServletDocumentationTests.ExampleController",
            "name" : "example",
            "descriptor" : "()Ljava/lang/String;"
        },
        "requestMappingConditions" : {
            "consumes" : [ {
                "mediaType" : "application/json",
                "negated" : false
            }, {
                "mediaType" : "application/xml",
                "negated" : true
            } ],
            "headers" : [ {
                "name" : "X-Custom",
                "value" : "Foo",
                "negated" : false
            } ],
            "methods" : [ "POST" ],
            "params" : [ {
                "name" : "a",
                "value" : "alpha",
                "negated" : true
            } ],
            "patterns" : [ "/" ],
            "produces" : [ {
                "mediaType" : "text/plain",
                "negated" : false
            } ]
        }
    }, {
        "handler" : "ResourceHttpRequestHandler [classpath [META-
INF/resources/webjars/]]",
        "predicate" : "/webjars/**"
    }, {
        "handler" : "ResourceHttpRequestHandler [classpath [META-INF/resources/],
classpath [resources/], classpath [static/], classpath [public/], ServletContext
[/]]",
        "predicate" : "/*"
    } ]
}, {
    "servletFilters" : [ {
        "servletNameMappings" : [ ],
        "urlPatternMappings" : [ "/*" ],
        "name" : "requestContextFilter",
        "className" :
"org.springframework.boot.web.servlet.filter.OrderedRequestContextFilter"
    }, {

```



| Path   | Type   | Description   |
|--|--------|---|
| *  | Array  | Dispatcher servlet mappings, if any, keyed by dispatcher servlet bean name. |
| *.[] <b>.details</b>   | Object | Additional implementation-specific details about the mapping. Optional.     |
| *.[] <b>.handler</b>   | String | Handler for the mapping.  |
| *.[] <b>.predicate</b>   | String | Predicate for the mapping.  |
| *.[] <b>.details.handlerMethod</b>   | Object | Details of the method, if any, that will handle requests to this mapping.   |
| *.[] <b>.details.handlerMethod.className</b>                               | Varies | Fully qualified name of the class of the method.                            |
| *.[] <b>.details.handlerMethod.name</b>                                    | Varies | Name of the method.   |
| *.[] <b>.details.handlerMethod.descriptor</b>                              | Varies | Descriptor of the method as specified in the Java Language Specification.   |
| *.[] <b>.details.requestMappingConditions</b>                              | Object | Details of the request mapping conditions.                                  |
| *.[] <b>.details.requestMappingConditions.consumes</b>                     | Varies | Details of the consumes condition   |
| *.[] <b>.details.requestMappingConditions.consumes.[]<b>.mediaType</b></b> | Varies | Consumed media type.  |
| *.[] <b>.details.requestMappingConditions.consumes.[]<b>.negated</b></b>   | Varies | Whether the media type is negated.  |
| *.[] <b>.details.requestMappingConditions.headers</b>                      | Varies | Details of the headers condition.   |
| *.[] <b>.details.requestMappingConditions.headers.[]<b>.name</b></b>       | Varies | Name of the header.   |
| *.[] <b>.details.requestMappingConditions.headers.[]<b>.value</b></b>      | Varies | Required value of the header, if any.                                       |
| *.[] <b>.details.requestMappingConditions.headers.[]<b>.negated</b></b>    | Varies | Whether the value is negated.   |
| *.[] <b>.details.requestMappingConditions.methods</b>                      | Varies | HTTP methods that are handled.  |
| *.[] <b>.details.requestMappingConditions.params</b>                       | Varies | Details of the params condition.  |
| *.[] <b>.details.requestMappingConditions.params.[]<b>.name</b></b>        | Varies | Name of the parameter.  |

| Path   | Type   | Description  |
|--|--------|--|
| *.[] <code>.details.requestMappingConditions.params.[]<code>.value</code></code>       | Varies | Required value of the parameter, if any.               |
| *.[] <code>.details.requestMappingConditions.params.[]<code>.negated</code></code>     | Varies | Whether the value is negated.                          |
| *.[] <code>.details.requestMappingConditions.patterns</code>                           | Varies | Patterns identifying the paths handled by the mapping. |
| *.[] <code>.details.requestMappingConditions.produces</code>                           | Varies | Details of the produces condition.                     |
| *.[] <code>.details.requestMappingConditions.produces.[]<code>.mediaType</code></code> | Varies | Produced media type.                                   |
| *.[] <code>.details.requestMappingConditions.produces.[]<code>.negated</code></code>   | Varies | Whether the media type is negated.                     |

### 17.1.3. Servlets Response Structure

When using the Servlet stack, the response contains details of any `Servlet` mappings beneath `contexts.*.mappings.servlets`. The following table describes the structure of this section of the response:

| Path                       | Type   | Description               |
|----------------------------|--------|---------------------------|
| [] <code>.mappings</code>  | Array  | Mappings of the servlet.  |
| [] <code>.name</code>      | String | Name of the servlet.      |
| [] <code>.className</code> | String | Class name of the servlet |

### 17.1.4. Servlet Filters Response Structure

When using the Servlet stack, the response contains details of any `Filter` mappings beneath `contexts.*.mappings.servletFilters`. The following table describes the structure of this section of the response:

| Path                                 | Type   | Description  |
|--------------------------------------|--------|--|
| [] <code>.servletNameMappings</code> | Array  | Names of the servlets to which the filter is mapped. |
| [] <code>.urlPatternMappings</code>  | Array  | URL pattern to which the filter is mapped.           |
| [] <code>.name</code>                | String | Name of the filter.                                  |
| [] <code>.className</code>           | String | Class name of the filter                             |

### 17.1.5. Dispatcher Handlers Response Structure

When using Spring WebFlux, the response contains details of any `DispatcherHandler` request mappings beneath `contexts.*.mappings.dispatcherHandlers`. The following table describes the

structure of this section of the response:

| Path  | Type   | Description   |
|---|--------|---|
| *   | Array  | Dispatcher handler mappings, if any, keyed by dispatcher handler bean name. |
| *.[] details  | Object | Additional implementation-specific details about the mapping. Optional.     |
| *.[] handler  | String | Handler for the mapping.  |
| *.[] predicate  | String | Predicate for the mapping.  |
| *.[] details requestMappingConditions                       | Object | Details of the request mapping conditions.                                  |
| *.[] details requestMappingConditions consumes              | Varies | Details of the consumes condition   |
| *.[] details requestMappingConditions consumes.[] mediaType | Varies | Consumed media type.  |
| *.[] details requestMappingConditions consumes.[] negated   | Varies | Whether the media type is negated.  |
| *.[] details requestMappingConditions headers               | Varies | Details of the headers condition.   |
| *.[] details requestMappingConditions headers.[] name       | Varies | Name of the header.   |
| *.[] details requestMappingConditions headers.[] value      | Varies | Required value of the header, if any.                                       |
| *.[] details requestMappingConditions headers.[] negated    | Varies | Whether the value is negated.   |
| *.[] details requestMappingConditions methods               | Varies | HTTP methods that are handled.  |
| *.[] details requestMappingConditions params                | Varies | Details of the params condition.  |
| *.[] details requestMappingConditions params.[] name        | Varies | Name of the parameter.  |
| *.[] details requestMappingConditions params.[] value       | Varies | Required value of the parameter, if any.                                    |
| *.[] details requestMappingConditions params.[] negated     | Varies | Whether the value is negated.   |
| *.[] details requestMappingConditions patterns              | Varies | Patterns identifying the paths handled by the mapping.                      |

| <b>Path</b>   | <b>Type</b> | <b>Description</b>  |
|---|-------------|---|
| *. [].details.requestMappingConditions.produces               | Varies      | Details of the produces condition.  |
| *. [].details.requestMappingConditions.produces. [].mediaType | Varies      | Produced media type.  |
| *. [].details.requestMappingConditions.produces. [].negated   | Varies      | Whether the media type is negated.  |
| *. [].details.handlerMethod                                   | Object      | Details of the method, if any, that will handle requests to this mapping.   |
| *. [].details.handlerMethod.className                         | String      | Fully qualified name of the class of the method.                            |
| *. [].details.handlerMethod.name                              | String      | Name of the method.   |
| *. [].details.handlerMethod.descriptor                        | String      | Descriptor of the method as specified in the Java Language Specification.   |
| *. [].details.handlerFunction                                 | Object      | Details of the function, if any, that will handle requests to this mapping. |
| *. [].details.handlerFunction.className                       | String      | Fully qualified name of the class of the function.                          |



# Chapter 18. Metrics (**metrics**)

The **metrics** endpoint provides access to application metrics.

## 18.1. Retrieving Metric Names

To retrieve the names of the available metrics, make a **GET** request to `/actuator/metrics`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/metrics' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 154

{
  "names" : [ "jvm.buffer.count", "jvm.buffer.memory.used",
    "jvm.buffer.total.capacity", "jvm.memory.committed", "jvm.memory.max",
    "jvm.memory.used" ]
}
```

### 18.1.1. Response Structure

The response contains details of the metric names. The following table describes the structure of the response:

| Path               | Type  | Description                 |
|--------------------|-------|-----------------------------|
| <code>names</code> | Array | Names of the known metrics. |

## 18.2. Retrieving a Metric

To retrieve a metric, make a **GET** request to `/actuator/metrics/{metric.name}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/metrics/jvm.memory.max' -i -X GET
```

The preceding example retrieves information about the metric named `jvm.memory.max`. The resulting response is similar to the following:

```

HTTP/1.1 200 OK
Content-Disposition: inline;filename=f.txt
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 555

{
  "name" : "jvm.memory.max",
  "description" : "The maximum amount of memory in bytes that can be used for memory
management",
  "baseUnit" : "bytes",
  "measurements" : [ {
    "statistic" : "VALUE",
    "value" : 2.399141885E9
  } ],
  "availableTags" : [ {
    "tag" : "area",
    "values" : [ "heap", "nonheap" ]
  }, {
    "tag" : "id",
    "values" : [ "CodeHeap 'profiled nmethods'", "G1 Old Gen", "CodeHeap 'non-profiled
nmethods'", "G1 Survivor Space", "Compressed Class Space", "Metaspace", "G1 Eden
Space", "CodeHeap 'non-nmethods'" ]
  } ]
}

```

### 18.2.1. Query Parameters

The endpoint uses query parameters to [drill down](#) into a metric by using its tags. The following table shows the single supported query parameter:

| Parameter        | Description   |
|------------------|---|
| <code>tag</code> | A tag to use for drill-down in the form <code>name:value</code> . |

### 18.2.2. Response structure

The response contains details of the metric. The following table describes the structure of the response:

| Path                      | Type   | Description                |
|---------------------------|--------|----------------------------|
| <code>name</code>         | String | Name of the metric         |
| <code>description</code>  | String | Description of the metric  |
| <code>baseUnit</code>     | String | Base unit of the metric    |
| <code>measurements</code> | Array  | Measurements of the metric |

| Path                                  | Type   | Description  |
|---------------------------------------|--------|--|
| <code>measurements[].statistic</code> | String | Statistic of the measurement. (TOTAL, TOTAL_TIME, COUNT, MAX, VALUE, UNKNOWN, ACTIVE_TASKS, DURATION). |
| <code>measurements[].value</code>     | Number | Value of the measurement.  |
| <code>availableTags</code>            | Array  | Tags that are available for drill-down.  |
| <code>availableTags[].tag</code>      | String | Name of the tag.   |
| <code>availableTags[].values</code>   | Array  | Possible values of the tag.  |

## 18.3. Drilling Down

To drill down into a metric, make a `GET` request to `/actuator/metrics/{metric.name}` using the `tag` query parameter, as shown in the following curl-based example:

```
$ curl
'http://localhost:8080/actuator/metrics/jvm.memory.max?tag=area%3Anonheap&tag=id%3ACom
pressed+Class+Space' -i -X GET
```

The preceding example retrieves the `jvm.memory.max` metric, where the `area` tag has a value of `nonheap` and the `id` attribute has a value of `Compressed Class Space`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Disposition: inline;filename=f.txt
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 263

{
  "name" : "jvm.memory.max",
  "description" : "The maximum amount of memory in bytes that can be used for memory
management",
  "baseUnit" : "bytes",
  "measurements" : [ {
    "statistic" : "VALUE",
    "value" : 1.073741824E9
  } ],
  "availableTags" : [ ]
}
```

# Chapter 19. Prometheus (prometheus)

The `prometheus` endpoint provides Spring Boot application's metrics in the format required for scraping by a Prometheus server.

## 19.1. Retrieving All Metrics

To retrieve all metrics, make a `GET` request to `/actuator/prometheus`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/prometheus' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: text/plain;version=0.0.4;charset=utf-8
Content-Length: 3132

# HELP jvm_buffer_count_buffers An estimate of the number of buffers in the pool
# TYPE jvm_buffer_count_buffers gauge
jvm_buffer_count_buffers{id="mapped - 'non-volatile memory'",} 0.0
jvm_buffer_count_buffers{id="mapped",} 0.0
jvm_buffer_count_buffers{id="direct",} 16.0
# HELP jvm_memory_used_bytes The amount of used memory
# TYPE jvm_memory_used_bytes gauge
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'profiled nmethods'",} 1.8790016E7
jvm_memory_used_bytes{area="heap",id="G1 Survivor Space",} 5222208.0
jvm_memory_used_bytes{area="heap",id="G1 Old Gen",} 7.7540864E7
jvm_memory_used_bytes{area="nonheap",id="Metaspace",} 8.4135944E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-nmethods'",} 1418880.0
jvm_memory_used_bytes{area="heap",id="G1 Eden Space",} 2.7262976E7
jvm_memory_used_bytes{area="nonheap",id="Compressed Class Space",} 1.1260952E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'",} 3938048.0
# HELP jvm_buffer_memory_used_bytes An estimate of the memory that the Java virtual
machine is using for this buffer pool
# TYPE jvm_buffer_memory_used_bytes gauge
jvm_buffer_memory_used_bytes{id="mapped - 'non-volatile memory'",} 0.0
jvm_buffer_memory_used_bytes{id="mapped",} 0.0
jvm_buffer_memory_used_bytes{id="direct",} 1.7043464E7
# HELP jvm_memory_committed_bytes The amount of memory in bytes that is committed for
the Java virtual machine to use
# TYPE jvm_memory_committed_bytes gauge
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'profiled nmethods'",}
1.8808832E7
jvm_memory_committed_bytes{area="heap",id="G1 Survivor Space",} 5242880.0
jvm_memory_committed_bytes{area="heap",id="G1 Old Gen",} 1.08003328E8
jvm_memory_committed_bytes{area="nonheap",id="Metaspace",} 8.4738048E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-nmethods'",} 2555904.0
```

```

jvm_memory_committed_bytes{area="heap",id="G1 Eden Space",} 4.2991616E7
jvm_memory_committed_bytes{area="nonheap",id="Compressed Class Space",} 1.1534336E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'",}
3997696.0
# HELP jvm_buffer_total_capacity_bytes An estimate of the total capacity of the
buffers in this pool
# TYPE jvm_buffer_total_capacity_bytes gauge
jvm_buffer_total_capacity_bytes{id="mapped - 'non-volatile memory'",} 0.0
jvm_buffer_total_capacity_bytes{id="mapped",} 0.0
jvm_buffer_total_capacity_bytes{id="direct",} 1.7043463E7
# HELP jvm_memory_max_bytes The maximum amount of memory in bytes that can be used for
memory management
# TYPE jvm_memory_max_bytes gauge
jvm_memory_max_bytes{area="nonheap",id="CodeHeap 'profiled nmethods'",} 1.22908672E8
jvm_memory_max_bytes{area="heap",id="G1 Survivor Space",} -1.0
jvm_memory_max_bytes{area="heap",id="G1 Old Gen",} 1.073741824E9
jvm_memory_max_bytes{area="nonheap",id="Metaspace",} -1.0
jvm_memory_max_bytes{area="nonheap",id="CodeHeap 'non-nmethods'",} 5836800.0
jvm_memory_max_bytes{area="heap",id="G1 Eden Space",} -1.0
jvm_memory_max_bytes{area="nonheap",id="Compressed Class Space",} 1.073741824E9
jvm_memory_max_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'",}
1.22912768E8

```

The default response content type is `text/plain;version=0.0.4`. The endpoint can also produce `application/openmetrics-text;version=1.0.0` when called with an appropriate `Accept` header, as shown in the following curl-based example:

```

$ curl 'http://localhost:8080/actuator/prometheus' -i -X GET \
-H 'Accept: application/openmetrics-text; version=1.0.0; charset=utf-8'

```

The resulting response is similar to the following:

```

HTTP/1.1 200 OK
Content-Type: application/openmetrics-text;version=1.0.0;charset=utf-8
Content-Length: 3103

# TYPE jvm_buffer_count_buffers gauge
# HELP jvm_buffer_count_buffers An estimate of the number of buffers in the pool
jvm_buffer_count_buffers{id="mapped - 'non-volatile memory'"} 0.0
jvm_buffer_count_buffers{id="mapped"} 0.0
jvm_buffer_count_buffers{id="direct"} 16.0
# TYPE jvm_memory_used_bytes gauge
# HELP jvm_memory_used_bytes The amount of used memory
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'profiled nmethods'"} 1.8770304E7
jvm_memory_used_bytes{area="heap",id="G1 Survivor Space"} 5222208.0
jvm_memory_used_bytes{area="heap",id="G1 Old Gen"} 7.7540864E7
jvm_memory_used_bytes{area="nonheap",id="Metaspace"} 8.4102512E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-nmethods'"} 1418880.0
jvm_memory_used_bytes{area="heap",id="G1 Eden Space"} 2.62144E7

```

```

jvm_memory_used_bytes{area="nonheap",id="Compressed Class Space"} 1.1257032E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'"} 3936512.0
# TYPE jvm_buffer_memory_used_bytes gauge
# HELP jvm_buffer_memory_used_bytes An estimate of the memory that the Java virtual
machine is using for this buffer pool
jvm_buffer_memory_used_bytes{id="mapped - 'non-volatile memory'"} 0.0
jvm_buffer_memory_used_bytes{id="mapped"} 0.0
jvm_buffer_memory_used_bytes{id="direct"} 1.7043464E7
# TYPE jvm_memory_committed_bytes gauge
# HELP jvm_memory_committed_bytes The amount of memory in bytes that is committed for
the Java virtual machine to use
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'profiled nmethods'"}
1.8808832E7
jvm_memory_committed_bytes{area="heap",id="G1 Survivor Space"} 5242880.0
jvm_memory_committed_bytes{area="heap",id="G1 Old Gen"} 1.08003328E8
jvm_memory_committed_bytes{area="nonheap",id="Metaspace"} 8.4738048E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-nmethods'"} 2555904.0
jvm_memory_committed_bytes{area="heap",id="G1 Eden Space"} 4.2991616E7
jvm_memory_committed_bytes{area="nonheap",id="Compressed Class Space"} 1.1534336E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'"}
3997696.0
# TYPE jvm_buffer_total_capacity_bytes gauge
# HELP jvm_buffer_total_capacity_bytes An estimate of the total capacity of the
buffers in this pool
jvm_buffer_total_capacity_bytes{id="mapped - 'non-volatile memory'"} 0.0
jvm_buffer_total_capacity_bytes{id="mapped"} 0.0
jvm_buffer_total_capacity_bytes{id="direct"} 1.7043463E7
# TYPE jvm_memory_max_bytes gauge
# HELP jvm_memory_max_bytes The maximum amount of memory in bytes that can be used for
memory management
jvm_memory_max_bytes{area="nonheap",id="CodeHeap 'profiled nmethods'"} 1.22908672E8
jvm_memory_max_bytes{area="heap",id="G1 Survivor Space"} -1.0
jvm_memory_max_bytes{area="heap",id="G1 Old Gen"} 1.073741824E9
jvm_memory_max_bytes{area="nonheap",id="Metaspace"} -1.0
jvm_memory_max_bytes{area="nonheap",id="CodeHeap 'non-nmethods'"} 5836800.0
jvm_memory_max_bytes{area="heap",id="G1 Eden Space"} -1.0
jvm_memory_max_bytes{area="nonheap",id="Compressed Class Space"} 1.073741824E9
jvm_memory_max_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'"}
1.22912768E8
# EOF

```

### 19.1.1. Query Parameters

The endpoint uses query parameters to limit the samples that it returns. The following table shows the supported query parameters:

| Parameter                  | Description  |
|----------------------------|--|
| <code>includedNames</code> | Restricts the samples to those that match the names. Optional. |

## 19.2. Retrieving Filtered Metrics

To retrieve metrics matching specific names, make a **GET** request to `/actuator/prometheus` with the `includedNames` query parameter, as shown in the following curl-based example:

```
$ curl
'http://localhost:8080/actuator/prometheus?includedNames=jvm_memory_used_bytes%2Cjvm_m
emory_committed_bytes' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: text/plain;version=0.0.4;charset=utf-8
Content-Length: 1479

# HELP jvm_memory_used_bytes The amount of used memory
# TYPE jvm_memory_used_bytes gauge
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'profiled nmethods'",} 1.8805632E7
jvm_memory_used_bytes{area="heap",id="G1 Survivor Space",} 5222208.0
jvm_memory_used_bytes{area="heap",id="G1 Old Gen",} 7.7540864E7
jvm_memory_used_bytes{area="nonheap",id="Metaspace",} 8.4154168E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-nmethods'",} 1418880.0
jvm_memory_used_bytes{area="heap",id="G1 Eden Space",} 2.8311552E7
jvm_memory_used_bytes{area="nonheap",id="Compressed Class Space",} 1.1262688E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'",} 3938816.0
# HELP jvm_memory_committed_bytes The amount of memory in bytes that is committed for
the Java virtual machine to use
# TYPE jvm_memory_committed_bytes gauge
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'profiled nmethods'",}
1.8808832E7
jvm_memory_committed_bytes{area="heap",id="G1 Survivor Space",} 5242880.0
jvm_memory_committed_bytes{area="heap",id="G1 Old Gen",} 1.08003328E8
jvm_memory_committed_bytes{area="nonheap",id="Metaspace",} 8.4738048E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-nmethods'",} 2555904.0
jvm_memory_committed_bytes{area="heap",id="G1 Eden Space",} 4.2991616E7
jvm_memory_committed_bytes{area="nonheap",id="Compressed Class Space",} 1.1534336E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'",}
3997696.0
```

# Chapter 20. Quartz (quartz)

The `quartz` endpoint provides information about jobs and triggers that are managed by the Quartz Scheduler.

## 20.1. Retrieving Registered Groups

Jobs and triggers are managed in groups. To retrieve the list of registered job and trigger groups, make a `GET` request to `/actuator/quartz`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/quartz' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 120

{
  "jobs" : {
    "groups" : [ "samples", "tests" ]
  },
  "triggers" : {
    "groups" : [ "samples", "DEFAULT" ]
  }
}
```

### 20.1.1. Response Structure

The response contains the groups names for registered jobs and triggers. The following table describes the structure of the response:

| Path                         | Type  | Description                      |
|------------------------------|-------|----------------------------------|
| <code>jobs.groups</code>     | Array | An array of job group names.     |
| <code>triggers.groups</code> | Array | An array of trigger group names. |

## 20.2. Retrieving Registered Job Names

To retrieve the list of registered job names, make a `GET` request to `/actuator/quartz/jobs`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/quartz/jobs' -i -X GET
```

The resulting response is similar to the following:



```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 137
```

```
{
  "groups" : {
    "samples" : {
      "jobs" : [ "jobOne", "jobTwo" ]
    },
    "tests" : {
      "jobs" : [ "jobThree" ]
    }
  }
}
```

### 20.2.1. Response Structure

The response contains the registered job names for each group. The following table describes the structure of the response:

| Path                       | Type   | Description               |
|----------------------------|--------|---------------------------|
| <code>groups</code>        | Object | Job groups keyed by name. |
| <code>groups.*.jobs</code> | Array  | An array of job names.    |

## 20.3. Retrieving Registered Trigger Names

To retrieve the list of registered trigger names, make a **GET** request to `/actuator/quartz/triggers`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/quartz/triggers' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 229
```

```
{
  "groups" : {
    "samples" : {
      "paused" : false,
      "triggers" : [ "3am-weekdays", "every-day", "once-a-week" ]
    },
    "DEFAULT" : {
      "paused" : false,
      "triggers" : [ "every-hour-tue-thu" ]
    }
  }
}
```

### 20.3.1. Response Structure

The response contains the registered trigger names for each group. The following table describes the structure of the response:

| Path                           | Type    | Description                           |
|--------------------------------|---------|---------------------------------------|
| <code>groups</code>            | Object  | Trigger groups keyed by name.         |
| <code>groups.*.paused</code>   | Boolean | Whether this trigger group is paused. |
| <code>groups.*.triggers</code> | Array   | An array of trigger names.            |

## 20.4. Retrieving Overview of a Job Group

To retrieve an overview of the jobs in a particular group, make a `GET` request to `/actuator/quartz/jobs/{groupName}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/quartz/jobs/samples' -i -X GET
```

The preceding example retrieves the summary for jobs in the `samples` group. The resulting response is similar to the following:

```

HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 201

{
  "group" : "samples",
  "jobs" : {
    "jobOne" : {
      "className" : "org.springframework.scheduling.quartz.DelegatingJob"
    },
    "jobTwo" : {
      "className" : "org.quartz.Job"
    }
  }
}

```

### 20.4.1. Response Structure

The response contains an overview of jobs in a particular group. The following table describes the structure of the response:

| Path                          | Type                | Description                                     |
|-------------------------------|---------------------|---|
| <code>group</code>            | <code>String</code> | Name of the group.                              |
| <code>jobs</code>             | <code>Object</code> | Job details keyed by name.                      |
| <code>jobs.*.className</code> | <code>String</code> | Fully qualified name of the job implementation. |

## 20.5. Retrieving Overview of a Trigger Group

To retrieve an overview of the triggers in a particular group, make a `GET` request to `/actuator/quartz/triggers/{groupName}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/quartz/triggers/tests' -i -X GET
```

The preceding example retrieves the summary for triggers in the `tests` group. The resulting response is similar to the following:

```

HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 1268

{
  "group" : "tests",
  "paused" : false,
  "triggers" : {

```

```

"cron" : {
  "3am-week" : {
    "previousFireTime" : "2020-12-04T03:00:00.000+00:00",
    "nextFireTime" : "2020-12-07T03:00:00.000+00:00",
    "priority" : 3,
    "expression" : "0 0 3 ? * 1,2,3,4,5",
    "timeZone" : "Europe/Paris"
  }
},
"simple" : {
  "every-day" : {
    "nextFireTime" : "2020-12-04T12:00:00.000+00:00",
    "priority" : 7,
    "interval" : 86400000
  }
},
"dailyTimeInterval" : {
  "tue-thu" : {
    "priority" : 5,
    "interval" : 3600000,
    "daysOfWeek" : [ 3, 5 ],
    "startTimeOfDay" : "09:00:00",
    "endTimeOfDay" : "18:00:00"
  }
},
"calendarInterval" : {
  "once-a-week" : {
    "previousFireTime" : "2020-12-02T14:00:00.000+00:00",
    "nextFireTime" : "2020-12-08T14:00:00.000+00:00",
    "priority" : 5,
    "interval" : 604800000,
    "timeZone" : "Etc/UTC"
  }
},
"custom" : {
  "once-a-year-custom" : {
    "previousFireTime" : "2020-07-14T16:00:00.000+00:00",
    "nextFireTime" : "2021-07-14T16:00:00.000+00:00",
    "priority" : 10,
    "trigger" : "com.example.CustomTrigger@fdsfsd"
  }
}
}
}

```

### 20.5.1. Response Structure

The response contains an overview of triggers in a particular group. Trigger implementation specific details are available. The following table describes the structure of the response:

| Path  | Type    | Description  |
|---|---------|--|
| group   | String  | Name of the group.   |
| paused  | Boolean | Whether the group is paused.   |
| triggers.cron                                 | Object  | Cron triggers keyed by name, if any.   |
| triggers.simple                               | Object  | Simple triggers keyed by name, if any.   |
| triggers.dailyTimeInterval                    | Object  | Daily time interval triggers keyed by name, if any.  |
| triggers.calendarInterval                     | Object  | Calendar interval triggers keyed by name, if any.  |
| triggers.custom                               | Object  | Any other triggers keyed by name, if any.  |
| triggers.cron.*.previousFireTime              | String  | Last time the trigger fired, if any.   |
| triggers.cron.*.nextFireTime                  | String  | Next time at which the Trigger is scheduled to fire, if any.   |
| triggers.cron.*.priority                      | Number  | Priority to use if two triggers have the same scheduled fire time.   |
| triggers.cron.*.expression                    | String  | Cron expression to use.  |
| triggers.cron.*.timeZone                      | String  | Time zone for which the expression will be resolved, if any.   |
| triggers.simple.*.previousFireTime            | String  | Last time the trigger fired, if any.   |
| triggers.simple.*.nextFireTime                | String  | Next time at which the Trigger is scheduled to fire, if any.   |
| triggers.simple.*.priority                    | Number  | Priority to use if two triggers have the same scheduled fire time.   |
| triggers.simple.*.interval                    | Number  | Interval, in milliseconds, between two executions.   |
| triggers.dailyTimeInterval.*.previousFireTime | String  | Last time the trigger fired, if any.   |
| triggers.dailyTimeInterval.*.nextFireTime     | String  | Next time at which the Trigger is scheduled to fire, if any.   |
| triggers.dailyTimeInterval.*.priority         | Number  | Priority to use if two triggers have the same scheduled fire time.   |
| triggers.dailyTimeInterval.*.interval         | Number  | Interval, in milliseconds, added to the fire time in order to calculate the time of the next trigger repeat. |
| triggers.dailyTimeInterval.*.daysOfWeek       | Array   | An array of days of the week upon which to fire.   |
| triggers.dailyTimeInterval.*.startTimeOfDay   | String  | Time of day to start firing at the given interval, if any.   |

| Path  | Type   | Description  |
|---|--------|--|
| <code>triggers.dailyTimeInterval.*.endTimeOfDay</code>    | String | Time of day to complete firing at the given interval, if any.  |
| <code>triggers.calendarInterval.*.previousFireTime</code> | String | Last time the trigger fired, if any.   |
| <code>triggers.calendarInterval.*.nextFireTime</code>     | String | Next time at which the Trigger is scheduled to fire, if any.   |
| <code>triggers.calendarInterval.*.priority</code>         | Number | Priority to use if two triggers have the same scheduled fire time.   |
| <code>triggers.calendarInterval.*.interval</code>         | Number | Interval, in milliseconds, added to the fire time in order to calculate the time of the next trigger repeat. |
| <code>triggers.calendarInterval.*.timeZone</code>         | String | Time zone within which time calculations will be performed, if any.  |
| <code>triggers.custom.*.previousFireTime</code>           | String | Last time the trigger fired, if any.   |
| <code>triggers.custom.*.nextFireTime</code>               | String | Next time at which the Trigger is scheduled to fire, if any.   |
| <code>triggers.custom.*.priority</code>                   | Number | Priority to use if two triggers have the same scheduled fire time.   |
| <code>triggers.custom.*.trigger</code>                    | String | A toString representation of the custom trigger instance.  |

## 20.6. Retrieving Details of a Job

To retrieve the details about a particular job, make a **GET** request to `/actuator/quartz/jobs/{groupName}/{jobName}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/quartz/jobs/samples/jobOne' -i -X GET
```

The preceding example retrieves the details of the job identified by the `samples` group and `jobOne` name. The resulting response is similar to the following:

```

HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 609

{
  "group" : "samples",
  "name" : "jobOne",
  "description" : "A sample job",
  "className" : "org.springframework.scheduling.quartz.DelegatingJob",
  "durable" : false,
  "requestRecovery" : false,
  "data" : {
    "password" : "secret",
    "user" : "admin"
  },
  "triggers" : [ {
    "group" : "samples",
    "name" : "every-day",
    "previousFireTime" : "2020-12-04T03:00:00.000+00:00",
    "nextFireTime" : "2020-12-04T12:00:00.000+00:00",
    "priority" : 7
  }, {
    "group" : "samples",
    "name" : "3am-weekdays",
    "nextFireTime" : "2020-12-07T03:00:00.000+00:00",
    "priority" : 3
  } ]
}

```

If a key in the data map is identified as sensitive, its value is sanitized.

### 20.6.1. Response Structure

The response contains the full details of a job including a summary of the triggers associated with it, if any. The triggers are sorted by next fire time and priority. The following table describes the structure of the response:

| Path            | Type    | Description  |
|-----------------|---------|--|
| group           | String  | Name of the group.   |
| name            | String  | Name of the job.   |
| description     | String  | Description of the job, if any.  |
| className       | String  | Fully qualified name of the job implementation.  |
| durable         | Boolean | Whether the job should remain stored after it is orphaned.                                     |
| requestRecovery | Boolean | Whether the job should be re-executed if a 'recovery' or 'fail-over' situation is encountered. |

| Path                                     | Type   | Description  |
|--|--------|--|
| <code>data.*</code>                      | String | Job data map as key/value pairs, if any.                           |
| <code>triggers</code>                    | Array  | An array of triggers associated to the job, if any.                |
| <code>triggers[].group</code>            | String | Name of the trigger group.   |
| <code>triggers[].name</code>             | String | Name of the trigger.   |
| <code>triggers[].previousFireTime</code> | String | Last time the trigger fired, if any.                               |
| <code>triggers[].nextFireTime</code>     | String | Next time at which the Trigger is scheduled to fire, if any.       |
| <code>triggers[].priority</code>         | Number | Priority to use if two triggers have the same scheduled fire time. |

## 20.7. Retrieving Details of a Trigger

To retrieve the details about a particular trigger, make a `GET` request to `/actuator/quartz/triggers/{groupName}/{triggerName}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/quartz/triggers/samples/example' -i -X GET
```

The preceding example retrieves the details of trigger identified by the `samples` group and `example` name.

### 20.7.1. Common Response Structure

The response has a common structure and an additional object that is specific to the trigger's type. There are five supported types:

- `cron` for `CronTrigger`
- `simple` for `SimpleTrigger`
- `dailyTimeInterval` for `DailyTimeIntervalTrigger`
- `calendarInterval` for `CalendarIntervalTrigger`
- `custom` for any other trigger implementations

The following table describes the structure of the common elements of the response:

| Path                     | Type   | Description   |
|--------------------------|--------|---|
| <code>group</code>       | String | Name of the group.  |
| <code>name</code>        | String | Name of the trigger.  |
| <code>description</code> | String | Description of the trigger, if any.   |
| <code>state</code>       | String | State of the trigger ( <code>NONE</code> , <code>NORMAL</code> , <code>PAUSED</code> , <code>COMPLETE</code> , <code>ERROR</code> , <code>BLOCKED</code> ). |



| Path                           | Type   | Description  |
|--------------------------------|--------|--|
| <code>type</code>              | String | Type of the trigger ( <code>calendarInterval</code> , <code>cron</code> , <code>custom</code> , <code>dailyTimeInterval</code> , <code>simple</code> ). Determines the key of the object containing type-specific details. |
| <code>calendarName</code>      | String | Name of the Calendar associated with this Trigger, if any.   |
| <code>startTime</code>         | String | Time at which the Trigger should take effect, if any.  |
| <code>endTime</code>           | String | Time at which the Trigger should quit repeating, regardless of any remaining repeats, if any.  |
| <code>previousFireTime</code>  | String | Last time the trigger fired, if any.   |
| <code>nextFireTime</code>      | String | Next time at which the Trigger is scheduled to fire, if any.   |
| <code>priority</code>          | Number | Priority to use if two triggers have the same scheduled fire time.   |
| <code>finalFireTime</code>     | String | Last time at which the Trigger will fire, if any.  |
| <code>data</code>              | Object | Job data map keyed by name, if any.  |
| <code>calendarInterval</code>  | Object | Calendar time interval trigger details, if any. Present when <code>type</code> is <code>calendarInterval</code> .  |
| <code>custom</code>            | Object | Custom trigger details, if any. Present when <code>type</code> is <code>custom</code> .  |
| <code>cron</code>              | Object | Cron trigger details, if any. Present when <code>type</code> is <code>cron</code> .  |
| <code>dailyTimeInterval</code> | Object | Daily time interval trigger details, if any. Present when <code>type</code> is <code>dailyTimeInterval</code> .  |
| <code>simple</code>            | Object | Simple trigger details, if any. Present when <code>type</code> is <code>simple</code> .  |

### 20.7.2. Cron Trigger Response Structure

A cron trigger defines the cron expression that is used to determine when it has to fire. The resulting response for such a trigger implementation is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 490
```

```
{
  "group" : "samples",
  "name" : "example",
  "description" : "Example trigger",
  "state" : "NORMAL",
  "type" : "cron",
  "calendarName" : "bankHolidays",
  "startTime" : "2020-11-30T17:00:00.000+00:00",
  "endTime" : "2020-12-30T03:00:00.000+00:00",
  "previousFireTime" : "2020-12-04T03:00:00.000+00:00",
  "nextFireTime" : "2020-12-07T03:00:00.000+00:00",
  "priority" : 3,
  "data" : { },
  "cron" : {
    "expression" : "0 0 3 ? * 1,2,3,4,5",
    "timeZone" : "Europe/Paris"
  }
}
```

Much of the response is common to all trigger types. The structure of the common elements of the response was [described previously](#). The following table describes the structure of the parts of the response that are specific to cron triggers:

| Path                         | Type   | Description  |
|------------------------------|--------|--|
| <code>cron</code>            | Object | Cron trigger specific details.                               |
| <code>cron.expression</code> | String | Cron expression to use.                                      |
| <code>cron.timeZone</code>   | String | Time zone for which the expression will be resolved, if any. |

### 20.7.3. Simple Trigger Response Structure

A simple trigger is used to fire a Job at a given moment in time, and optionally repeated at a specified interval. The resulting response for such a trigger implementation is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 549
```

```
{
  "group" : "samples",
  "name" : "example",
  "description" : "Example trigger",
  "state" : "NORMAL",
  "type" : "simple",
  "calendarName" : "bankHolidays",
  "startTime" : "2020-11-30T17:00:00.000+00:00",
  "endTime" : "2020-12-30T03:00:00.000+00:00",
  "previousFireTime" : "2020-12-04T03:00:00.000+00:00",
  "nextFireTime" : "2020-12-07T03:00:00.000+00:00",
  "priority" : 7,
  "finalFireTime" : "2020-12-29T17:00:00.000+00:00",
  "data" : { },
  "simple" : {
    "interval" : 86400000,
    "repeatCount" : -1,
    "timesTriggered" : 0
  }
}
```

Much of the response is common to all trigger types. The structure of the common elements of the response was [described previously](#). The following table describes the structure of the parts of the response that are specific to simple triggers:

| Path                               | Type   | Description  |
|------------------------------------|--------|--|
| <code>simple</code>                | Object | Simple trigger specific details.   |
| <code>simple.interval</code>       | Number | Interval, in milliseconds, between two executions.                       |
| <code>simple.repeatCount</code>    | Number | Number of times the trigger should repeat, or -1 to repeat indefinitely. |
| <code>simple.timesTriggered</code> | Number | Number of times the trigger has already fired.                           |

#### 20.7.4. Daily Time Interval Trigger Response Structure

A daily time interval trigger is used to fire a Job based upon daily repeating time intervals. The resulting response for such a trigger implementation is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 667
```

```
{
  "group" : "samples",
  "name" : "example",
  "description" : "Example trigger",
  "state" : "PAUSED",
  "type" : "dailyTimeInterval",
  "calendarName" : "bankHolidays",
  "startTime" : "2020-11-30T17:00:00.000+00:00",
  "endTime" : "2020-12-30T03:00:00.000+00:00",
  "previousFireTime" : "2020-12-04T03:00:00.000+00:00",
  "nextFireTime" : "2020-12-07T03:00:00.000+00:00",
  "priority" : 5,
  "finalFireTime" : "2020-12-30T18:00:00.000+00:00",
  "data" : { },
  "dailyTimeInterval" : {
    "interval" : 3600000,
    "daysOfWeek" : [ 3, 5 ],
    "startTimeOfDay" : "09:00:00",
    "endTimeOfDay" : "18:00:00",
    "repeatCount" : -1,
    "timesTriggered" : 0
  }
}
```

Much of the response is common to all trigger types. The structure of the common elements of the response was [described previously](#). The following table describes the structure of the parts of the response that are specific to daily time interval triggers:

| Path  | Type   | Description  |
|---|--------|--|
| <code>dailyTimeInterval</code>                | Object | Daily time interval trigger specific details.  |
| <code>dailyTimeInterval.interval</code>       | Number | Interval, in milliseconds, added to the fire time in order to calculate the time of the next trigger repeat. |
| <code>dailyTimeInterval.daysOfWeek</code>     | Array  | An array of days of the week upon which to fire.   |
| <code>dailyTimeInterval.startTimeOfDay</code> | String | Time of day to start firing at the given interval, if any.   |
| <code>dailyTimeInterval.endTimeOfDay</code>   | String | Time of day to complete firing at the given interval, if any.  |
| <code>dailyTimeInterval.repeatCount</code>    | Number | Number of times the trigger should repeat, or -1 to repeat indefinitely.                                     |
| <code>dailyTimeInterval.timesTriggered</code> | Number | Number of times the trigger has already fired.   |

## 20.7.5. Calendar Interval Trigger Response Structure

A calendar interval trigger is used to fire a Job based upon repeating calendar time intervals. The resulting response for such a trigger implementation is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 669

{
  "group" : "samples",
  "name" : "example",
  "description" : "Example trigger",
  "state" : "NORMAL",
  "type" : "calendarInterval",
  "calendarName" : "bankHolidays",
  "startTime" : "2020-11-30T17:00:00.000+00:00",
  "endTime" : "2020-12-30T03:00:00.000+00:00",
  "previousFireTime" : "2020-12-04T03:00:00.000+00:00",
  "nextFireTime" : "2020-12-07T03:00:00.000+00:00",
  "priority" : 5,
  "finalFireTime" : "2020-12-28T17:00:00.000+00:00",
  "data" : { },
  "calendarInterval" : {
    "interval" : 604800000,
    "timeZone" : "Etc/UTC",
    "timesTriggered" : 0,
    "preserveHourOfDayAcrossDaylightSavings" : false,
    "skipDayIfHourDoesNotExist" : false
  }
}
```

Much of the response is common to all trigger types. The structure of the common elements of the response was [described previously](#). The following table describes the structure of the parts of the response that are specific to calendar interval triggers:

| Path   | Type   | Description  |
|--|--------|--|
| <code>calendarInterval</code>                | Object | Calendar interval trigger specific details.  |
| <code>calendarInterval.interval</code>       | Number | Interval, in milliseconds, added to the fire time in order to calculate the time of the next trigger repeat. |
| <code>calendarInterval.timeZone</code>       | String | Time zone within which time calculations will be performed, if any.  |
| <code>calendarInterval.timesTriggered</code> | Number | Number of times the trigger has already fired.   |

| Path   | Type    | Description  |
|--|---------|--|
| <code>calendarInterval.preserveHourOfDayAcrossDayLightSavings</code> | Boolean | Whether to fire the trigger at the same time of day, regardless of daylight saving time transitions. |
| <code>calendarInterval.skipDayIfHourDoesNotExist</code>              | Boolean | Whether to skip if the hour of the day does not exist on a given day.                                |

## 20.7.6. Custom Trigger Response Structure

A custom trigger is any other implementation. The resulting response for such a trigger implementation is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 457

{
  "group" : "samples",
  "name" : "example",
  "description" : "Example trigger.",
  "state" : "NORMAL",
  "type" : "custom",
  "calendarName" : "bankHolidays",
  "startTime" : "2020-11-30T17:00:00.000+00:00",
  "endTime" : "2020-12-30T03:00:00.000+00:00",
  "previousFireTime" : "2020-12-04T03:00:00.000+00:00",
  "nextFireTime" : "2020-12-07T03:00:00.000+00:00",
  "priority" : 10,
  "custom" : {
    "trigger" : "com.example.CustomTrigger@fdsfsd"
  }
}
```

Much of the response is common to all trigger types. The structure of the common elements of the response was [described previously](#). The following table describes the structure of the parts of the response that are specific to custom triggers:

| Path                        | Type   | Description   |
|-----------------------------|--------|---|
| <code>custom</code>         | Object | Custom trigger specific details.                          |
| <code>custom.trigger</code> | String | A toString representation of the custom trigger instance. |

# Chapter 21. Scheduled Tasks (scheduledtasks)

The `scheduledtasks` endpoint provides information about the application's scheduled tasks.

## 21.1. Retrieving the Scheduled Tasks

To retrieve the scheduled tasks, make a `GET` request to `/actuator/scheduledtasks`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/scheduledtasks' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 629

{
  "cron" : [ {
    "runnable" : {
      "target" : "com.example.Processor.processOrders"
    },
    "expression" : "0 0 0/3 1/1 * ?"
  } ],
  "fixedDelay" : [ {
    "runnable" : {
      "target" : "com.example.Processor.purge"
    },
    "initialDelay" : 5000,
    "interval" : 5000
  } ],
  "fixedRate" : [ {
    "runnable" : {
      "target" : "com.example.Processor.retrieveIssues"
    },
    "initialDelay" : 10000,
    "interval" : 3000
  } ],
  "custom" : [ {
    "runnable" : {
      "target" : "com.example.Processor$CustomTriggeredRunnable"
    },
    "trigger" : "com.example.Processor$CustomTrigger@54978e18"
  } ]
}
```

### 21.1.1. Response Structure

The response contains details of the application's scheduled tasks. The following table describes the structure of the response:

| Path                                      | Type   | Description   |
|---|--------|---|
| <code>cron</code>                         | Array  | Cron tasks, if any.   |
| <code>cron[].runnable.target</code>       | String | Target that will be executed.   |
| <code>cron[].expression</code>            | String | Cron expression.  |
| <code>fixedDelay</code>                   | Array  | Fixed delay tasks, if any.  |
| <code>fixedDelay[].runnable.target</code> | String | Target that will be executed.   |
| <code>fixedDelay[].initialDelay</code>    | Number | Delay, in milliseconds, before first execution.   |
| <code>fixedDelay[].interval</code>        | Number | Interval, in milliseconds, between the end of the last execution and the start of the next. |
| <code>fixedRate</code>                    | Array  | Fixed rate tasks, if any.   |
| <code>fixedRate[].runnable.target</code>  | String | Target that will be executed.   |
| <code>fixedRate[].interval</code>         | Number | Interval, in milliseconds, between the start of each execution.                             |
| <code>fixedRate[].initialDelay</code>     | Number | Delay, in milliseconds, before first execution.   |
| <code>custom</code>                       | Array  | Tasks with custom triggers, if any.   |
| <code>custom[].runnable.target</code>     | String | Target that will be executed.   |
| <code>custom[].trigger</code>             | String | Trigger for the task.   |



# Chapter 22. Sessions (sessions)

The `sessions` endpoint provides information about the application's HTTP sessions that are managed by Spring Session.

## 22.1. Retrieving Sessions

To retrieve the sessions, make a `GET` request to `/actuator/sessions`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/sessions?username=alice' -i -X GET
```

The preceding examples retrieves all of the sessions for the user whose username is `alice`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 789

{
  "sessions" : [ {
    "id" : "7835845c-9663-42ff-b989-74a76d2c762f",
    "attributeNames" : [ ],
    "creationTime" : "2024-11-18T13:38:15.439421570Z",
    "lastAccessedTime" : "2024-11-19T01:37:30.439426549Z",
    "maxInactiveInterval" : 1800,
    "expired" : false
  }, {
    "id" : "6fb7fd46-2306-46d0-bc27-bfcf3ff08e68",
    "attributeNames" : [ ],
    "creationTime" : "2024-11-18T23:38:15.439651290Z",
    "lastAccessedTime" : "2024-11-19T01:38:03.439652132Z",
    "maxInactiveInterval" : 1800,
    "expired" : false
  }, {
    "id" : "4db5efcc-99cb-4d05-a52c-b49acfbb7ea9",
    "attributeNames" : [ ],
    "creationTime" : "2024-11-18T20:38:15.439647563Z",
    "lastAccessedTime" : "2024-11-19T01:37:38.439648685Z",
    "maxInactiveInterval" : 1800,
    "expired" : false
  } ]
}
```

### 22.1.1. Query Parameters

The endpoint uses query parameters to limit the sessions that it returns. The following table shows the single required query parameter:

| Parameter             | Description       |
|-----------------------|-------------------|
| <code>username</code> | Name of the user. |

### 22.1.2. Response Structure

The response contains details of the matching sessions. The following table describes the structure of the response:

| Path   | Type    | Description   |
|--|---------|---|
| <code>sessions</code>                        | Array   | Sessions for the given username.  |
| <code>sessions.[].id</code>                  | String  | ID of the session.  |
| <code>sessions.[].attributeNames</code>      | Array   | Names of the attributes stored in the session.                                      |
| <code>sessions.[].creationTime</code>        | String  | Timestamp of when the session was created.  |
| <code>sessions.[].lastAccessedTime</code>    | String  | Timestamp of when the session was last accessed.                                    |
| <code>sessions.[].maxInactiveInterval</code> | Number  | Maximum permitted period of inactivity, in seconds, before the session will expire. |
| <code>sessions.[].expired</code>             | Boolean | Whether the session has expired.  |

## 22.2. Retrieving a Single Session

To retrieve a single session, make a `GET` request to `/actuator/sessions/{id}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/sessions/4db5efcc-99cb-4d05-a52c-b49acfbb7ea9'
-i -X GET
```

The preceding example retrieves the session with the `id` of `4db5efcc-99cb-4d05-a52c-b49acfbb7ea9`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 240
```

```
{
  "id" : "4db5efcc-99cb-4d05-a52c-b49acfb7ea9",
  "attributeNames" : [ ],
  "creationTime" : "2024-11-18T20:38:15.439647563Z",
  "lastAccessedTime" : "2024-11-19T01:37:38.439648685Z",
  "maxInactiveInterval" : 1800,
  "expired" : false
}
```

### 22.2.1. Response Structure

The response contains details of the requested session. The following table describes the structure of the response:

| Path                             | Type                 | Description   |
|----------------------------------|----------------------|---|
| <code>id</code>                  | <code>String</code>  | ID of the session.  |
| <code>attributeNames</code>      | <code>Array</code>   | Names of the attributes stored in the session.                                      |
| <code>creationTime</code>        | <code>String</code>  | Timestamp of when the session was created.  |
| <code>lastAccessedTime</code>    | <code>String</code>  | Timestamp of when the session was last accessed.                                    |
| <code>maxInactiveInterval</code> | <code>Number</code>  | Maximum permitted period of inactivity, in seconds, before the session will expire. |
| <code>expired</code>             | <code>Boolean</code> | Whether the session has expired.  |

## 22.3. Deleting a Session

To delete a session, make a `DELETE` request to `/actuator/sessions/{id}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/sessions/4db5efcc-99cb-4d05-a52c-b49acfb7ea9'
-i -X DELETE
```

The preceding example deletes the session with the `id` of `4db5efcc-99cb-4d05-a52c-b49acfb7ea9`.

# Chapter 23. Shutdown (shutdown)

The `shutdown` endpoint is used to shut down the application.

## 23.1. Shutting Down the Application

To shut down the application, make a `POST` request to `/actuator/shutdown`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/shutdown' -i -X POST
```

A response similar to the following is produced:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 41

{
  "message" : "Shutting down, bye..."
}
```

### 23.1.1. Response Structure

The response contains details of the result of the shutdown request. The following table describes the structure of the response:

| Path                 | Type                | Description                                   |
|----------------------|---------------------|---|
| <code>message</code> | <code>String</code> | Message describing the result of the request. |

# Chapter 24. Application Startup (**startup**)

The **startup** endpoint provides information about the application's startup sequence.

## 24.1. Retrieving the Application Startup Steps

The application startup steps can either be retrieved as a snapshot (**GET**) or drained from the buffer (**POST**).

### 24.1.1. Retrieving a snapshot of the Application Startup Steps

To retrieve the steps recorded so far during the application startup phase, make a **GET** request to **/actuator/startup**, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/startup' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 892
```

```
{
  "springBootVersion" : "3.1.13.5",
  "timeline" : {
    "startTime" : "2024-11-19T01:38:16.036283861Z",
    "events" : [ {
      "endTime" : "2024-11-19T01:38:16.168476284Z",
      "duration" : "PT0.000004909S",
      "startTime" : "2024-11-19T01:38:16.168471375Z",
      "startupStep" : {
        "name" : "spring.beans.instantiate",
        "id" : 3,
        "tags" : [ {
          "key" : "beanName",
          "value" : "homeController"
        } ],
        "parentId" : 2
      }
    }, {
      "endTime" : "2024-11-19T01:38:16.168480312Z",
      "duration" : "PT0.000014758S",
      "startTime" : "2024-11-19T01:38:16.168465554Z",
      "startupStep" : {
        "name" : "spring.boot.application.starting",
        "id" : 2,
        "tags" : [ {
          "key" : "mainApplicationClass",
          "value" : "com.example.startup.StartupApplication"
        } ]
      }
    }
  ]
}
```

### 24.1.2. Draining the Application Startup Steps

To drain and return the steps recorded so far during the application startup phase, make a **POST** request to `/actuator/startup`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/startup' -i -X POST
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 892
```

```
{
  "springBootVersion" : "3.1.13.5",
  "timeline" : {
    "startTime" : "2024-11-19T01:38:16.036283861Z",
    "events" : [ {
      "endTime" : "2024-11-19T01:38:16.146857623Z",
      "duration" : "PT0.000329137S",
      "startTime" : "2024-11-19T01:38:16.146528486Z",
      "startupStep" : {
        "name" : "spring.beans.instantiate",
        "id" : 1,
        "tags" : [ {
          "key" : "beanName",
          "value" : "homeController"
        } ],
        "parentId" : 0
      }
    }, {
      "endTime" : "2024-11-19T01:38:16.146885685Z",
      "duration" : "PT0.001242209S",
      "startTime" : "2024-11-19T01:38:16.145643476Z",
      "startupStep" : {
        "name" : "spring.boot.application.starting",
        "id" : 0,
        "tags" : [ {
          "key" : "mainApplicationClass",
          "value" : "com.example.startup.StartupApplication"
        } ]
      }
    }
  ]
}
```

### 24.1.3. Response Structure

The response contains details of the application startup steps. The following table describes the structure of the response:

| Path                            | Type                | Description  |
|---------------------------------|---------------------|--|
| <code>springBootVersion</code>  | <code>String</code> | Spring Boot version for this application.                      |
| <code>timeline.startTime</code> | <code>String</code> | Start time of the application.                                 |
| <code>timeline.events</code>    | <code>Array</code>  | An array of steps collected during application startup so far. |

| <b>Path</b>   | <b>Type</b> | <b>Description</b>                                     |
|---|-------------|--|
| <code>timeline.events[].startTime</code>                | String      | The timestamp of the start of this event.              |
| <code>timeline.events[].endTime</code>                  | String      | The timestamp of the end of this event.                |
| <code>timeline.events[].duration</code>                 | String      | The precise duration of this event.                    |
| <code>timeline.events[].startupStep.name</code>         | String      | The name of the StartupStep.                           |
| <code>timeline.events[].startupStep.id</code>           | Number      | The id of this StartupStep.                            |
| <code>timeline.events[].startupStep.parentId</code>     | Number      | The parent id for this StartupStep.                    |
| <code>timeline.events[].startupStep.tags</code>         | Array       | An array of key/value pairs with additional step info. |
| <code>timeline.events[].startupStep.tags[].key</code>   | String      | The key of the StartupStep Tag.                        |
| <code>timeline.events[].startupStep.tags[].value</code> | String      | The value of the StartupStep Tag.                      |



# Chapter 25. Thread Dump (threaddump)

The `threaddump` endpoint provides a thread dump from the application's JVM.

## 25.1. Retrieving the Thread Dump as JSON

To retrieve the thread dump as JSON, make a `GET` request to `/actuator/threaddump` with an appropriate `Accept` header, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/threaddump' -i -X GET \  
-H 'Accept: application/json'
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK  
Content-Type: application/json  
Content-Length: 38943  
  
{  
  "threads" : [ {  
    "threadName" : "Test worker",  
    "threadId" : 1,  
    "blockedTime" : -1,  
    "blockedCount" : 35,  
    "waitedTime" : -1,  
    "waitedCount" : 41,  
    "lockOwnerId" : -1,  
    "daemon" : false,  
    "inNative" : false,  
    "suspended" : false,  
    "threadState" : "RUNNABLE",  
    "priority" : 5,  
    "stackTrace" : [ {  
      "moduleName" : "java.management",  
      "moduleVersion" : "17.0.13",  
      "methodName" : "dumpThreads0",  
      "fileName" : "ThreadImpl.java",  
      "lineNumber" : -2,  
      "nativeMethod" : true,  
      "className" : "sun.management.ThreadImpl"  
    }, {  
      "moduleName" : "java.management",  
      "moduleVersion" : "17.0.13",  
      "methodName" : "dumpAllThreads",  
      "fileName" : "ThreadImpl.java",  
      "lineNumber" : 528,  
      "nativeMethod" : false,  
      "className" : "sun.management.ThreadImpl"    }  
  ]  
}
```

```

}, {
  "moduleName" : "java.management",
  "moduleVersion" : "17.0.13",
  "methodName" : "dumpAllThreads",
  "fileName" : "ThreadImpl.java",
  "lineNumber" : 516,
  "nativeMethod" : false,
  "className" : "sun.management.ThreadImpl"
}, {
  "className" : "app",
  "methodName" : "getFormattedThreadDump",
  "fileName" : "ThreadDumpEndpoint.java",
  "lineNumber" : 52,
  "nativeMethod" : false,
  "className" : "org.springframework.boot.actuate.management.ThreadDumpEndpoint"
}, {
  "className" : "app",
  "methodName" : "threadDump",
  "fileName" : "ThreadDumpEndpoint.java",
  "lineNumber" : 43,
  "nativeMethod" : false,
  "className" : "org.springframework.boot.actuate.management.ThreadDumpEndpoint"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.13",
  "methodName" : "invoke0",
  "fileName" : "NativeMethodAccessorImpl.java",
  "lineNumber" : -2,
  "nativeMethod" : true,
  "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.13",
  "methodName" : "invoke",
  "fileName" : "NativeMethodAccessorImpl.java",
  "lineNumber" : 77,
  "nativeMethod" : false,
  "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.13",
  "methodName" : "invoke",
  "fileName" : "DelegatingMethodAccessorImpl.java",
  "lineNumber" : 43,
  "nativeMethod" : false,
  "className" : "jdk.internal.reflect.DelegatingMethodAccessorImpl"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.13",
  "methodName" : "invoke",
  "fileName" : "Method.java",

```

```

"lineNumber" : 569,
"nativeMethod" : false,
"className" : "java.lang.reflect.Method"
}, {
"className" : "app",
"methodName" : "invokeMethod",
"fileName" : "ReflectionUtils.java",
"lineNumber" : 281,
"nativeMethod" : false,
"className" : "org.springframework.util.ReflectionUtils"
}, {
"className" : "app",
"methodName" : "invoke",
"fileName" : "ReflectiveOperationInvoker.java",
"lineNumber" : 74,
"nativeMethod" : false,
"className" :
"org.springframework.boot.actuate.endpoint.invoke.reflect.ReflectiveOperationInvoker"
}, {
"className" : "app",
"methodName" : "invoke",
"fileName" : "AbstractDiscoveredOperation.java",
"lineNumber" : 60,
"nativeMethod" : false,
"className" :
"org.springframework.boot.actuate.endpoint.annotation.AbstractDiscoveredOperation"
}, {
"className" : "app",
"methodName" : "handle",
"fileName" : "AbstractWebMvcEndpointHandlerMapping.java",
"lineNumber" : 327,
"nativeMethod" : false,
"className" :
"org.springframework.boot.actuate.endpoint.web.servlet.AbstractWebMvcEndpointHandlerMa
pping$ServletWebOperationAdapter"
}, {
"className" : "app",
"methodName" : "handle",
"fileName" : "AbstractWebMvcEndpointHandlerMapping.java",
"lineNumber" : 434,
"nativeMethod" : false,
"className" :
"org.springframework.boot.actuate.endpoint.web.servlet.AbstractWebMvcEndpointHandlerMa
pping$OperationHandler"
}, {
"methodName" : "invoke",
"lineNumber" : -1,
"nativeMethod" : false,
"className" : "jdk.internal.reflect.GeneratedMethodAccessor63"
}, {
"moduleName" : "java.base",

```

```

    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "invoke",
    "fileName" : "DelegatingMethodAccessorImpl.java",
    "lineNumber" : 43,
    "nativeMethod" : false,
    "className" : "jdk.internal.reflect.DelegatingMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "invoke",
    "fileName" : "Method.java",
    "lineNumber" : 569,
    "nativeMethod" : false,
    "className" : "java.lang.reflect.Method"
  }, {
    "className" : "app",
    "methodName" : "doInvoke",
    "fileName" : "InvocableHandlerMethod.java",
    "lineNumber" : 205,
    "nativeMethod" : false,
    "className" : "org.springframework.web.method.support.InvocableHandlerMethod"
  }, {
    "className" : "app",
    "methodName" : "invokeForRequest",
    "fileName" : "InvocableHandlerMethod.java",
    "lineNumber" : 150,
    "nativeMethod" : false,
    "className" : "org.springframework.web.method.support.InvocableHandlerMethod"
  }, {
    "className" : "app",
    "methodName" : "invokeAndHandle",
    "fileName" : "ServletInvocableHandlerMethod.java",
    "lineNumber" : 118,
    "nativeMethod" : false,
    "className" :
    "org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod"
  }, {
    "className" : "app",
    "methodName" : "invokeHandlerMethod",
    "fileName" : "RequestMappingHandlerAdapter.java",
    "lineNumber" : 892,
    "nativeMethod" : false,
    "className" :
    "org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter"
  }, {
    "className" : "app",
    "methodName" : "handleInternal",
    "fileName" : "RequestMappingHandlerAdapter.java",
    "lineNumber" : 798,
    "nativeMethod" : false,
    "className" :

```



```

}, {
  "className" : "org.springframework.test.web.servlet.TestDispatcherServlet"
}, {
  "className" : "jakarta.servlet.http.HttpServlet"
}, {
  "className" : "org.springframework.mock.web.MockFilterChain$ServletFilterProxy"
}, {
  "className" : "org.springframework.mock.web.MockFilterChain"
}, {
  "className" : "org.springframework.test.web.servlet.MockMvc"
}, {
  "className" :
"org.springframework.boot.actuate.autoconfigure.endpoint.web.documentation.ThreadDumpE
ndpointDocumentationTests"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.13",
  "methodName" : "invoke0",
  "fileName" : "NativeMethodAccessorImpl.java",
  "lineNumber" : -2,
  "nativeMethod" : true,

```

```

    "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "invoke",
    "fileName" : "NativeMethodAccessorImpl.java",
    "lineNumber" : 77,
    "nativeMethod" : false,
    "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "invoke",
    "fileName" : "DelegatingMethodAccessorImpl.java",
    "lineNumber" : 43,
    "nativeMethod" : false,
    "className" : "jdk.internal.reflect.DelegatingMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "invoke",
    "fileName" : "Method.java",
    "lineNumber" : 569,
    "nativeMethod" : false,
    "className" : "java.lang.reflect.Method"
  }, {
    "classNameLoaderName" : "app",
    "methodName" : "invokeMethod",
    "fileName" : "ReflectionUtils.java",
    "lineNumber" : 727,
    "nativeMethod" : false,
    "className" : "org.junit.platform.commons.util.ReflectionUtils"
  }, {
    "classNameLoaderName" : "app",
    "methodName" : "proceed",
    "fileName" : "MethodInvocation.java",
    "lineNumber" : 60,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.execution.MethodInvocation"
  }, {
    "classNameLoaderName" : "app",
    "methodName" : "proceed",
    "fileName" : "InvocationInterceptorChain.java",
    "lineNumber" : 131,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.execution.InvocationInterceptorChain$ValidatingInvocation"
  }, {
    "classNameLoaderName" : "app",
    "methodName" : "intercept",
    "fileName" : "TimeoutExtension.java",

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    "lineNumber" : 156,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.extension.TimeoutExtension"
  }, {
    "className" : "app",
    "methodName" : "interceptTestableMethod",
    "fileName" : "TimeoutExtension.java",
    "lineNumber" : 147,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.extension.TimeoutExtension"
  }, {
    "className" : "app",
    "methodName" : "interceptTestMethod",
    "fileName" : "TimeoutExtension.java",
    "lineNumber" : 86,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.extension.TimeoutExtension"
  }, {
    "className" : "app",
    "methodName" : "apply",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor$$Lambda$194/0x00007fa6681327a8"
  }, {
    "className" : "app",
    "methodName" : "lambda$ofVoidMethod$0",
    "fileName" : "InterceptingExecutableInvoker.java",
    "lineNumber" : 103,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$ReflectiveInterceptorCall"
  }, {
    "className" : "app",
    "methodName" : "apply",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$ReflectiveInterceptorCall$$Lambda$195/0x00007fa668132bc8"
  }, {
    "className" : "app",
    "methodName" : "lambda$invoke$0",
    "fileName" : "InterceptingExecutableInvoker.java",
    "lineNumber" : 93,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.execution.InterceptingExecutableInvoker"
  }, {
    "className" : "app",

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    "methodName" : "apply",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$$Lambda$460/0x00007f
a6681dd378"
  }, {
    "classLoaderName" : "app",
    "methodName" : "proceed",
    "fileName" : "InvocationInterceptorChain.java",
    "lineNumber" : 106,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.execution.InvocationInterceptorChain$InterceptedInvocation"
  }, {
    "classLoaderName" : "app",
    "methodName" : "proceed",
    "fileName" : "InvocationInterceptorChain.java",
    "lineNumber" : 64,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.execution.InvocationInterceptorChain"
  }, {
    "classLoaderName" : "app",
    "methodName" : "chainAndInvoke",
    "fileName" : "InvocationInterceptorChain.java",
    "lineNumber" : 45,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.execution.InvocationInterceptorChain"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invoke",
    "fileName" : "InvocationInterceptorChain.java",
    "lineNumber" : 37,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.execution.InvocationInterceptorChain"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invoke",
    "fileName" : "InterceptingExecutableInvoker.java",
    "lineNumber" : 92,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.execution.InterceptingExecutableInvoker"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invoke",
    "fileName" : "InterceptingExecutableInvoker.java",
    "lineNumber" : 86,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.execution.InterceptingExecutableInvoker"
  }, {
    "classLoaderName" : "app",

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"methodName" : "lambda$invokeTestMethod$7",
"fileName" : "TestMethodTestDescriptor.java",
"lineNumber" : 217,
"nativeMethod" : false,
"className" : "org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor"
}, {
"classNameLoaderName" : "app",
"methodName" : "execute",
"lineNumber" : -1,
"nativeMethod" : false,
"className" :
"org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor$$Lambda$968/0x00007fa668
5d11f0"
}, {
"classNameLoaderName" : "app",
"methodName" : "execute",
"fileName" : "ThrowableCollector.java",
"lineNumber" : 73,
"nativeMethod" : false,
"className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
}, {
"classNameLoaderName" : "app",
"methodName" : "invokeTestMethod",
"fileName" : "TestMethodTestDescriptor.java",
"lineNumber" : 213,
"nativeMethod" : false,
"className" : "org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor"
}, {
"classNameLoaderName" : "app",
"methodName" : "execute",
"fileName" : "TestMethodTestDescriptor.java",
"lineNumber" : 138,
"nativeMethod" : false,
"className" : "org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor"
}, {
"classNameLoaderName" : "app",
"methodName" : "execute",
"fileName" : "TestMethodTestDescriptor.java",
"lineNumber" : 68,
"nativeMethod" : false,
"className" : "org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor"
}, {
"classNameLoaderName" : "app",
"methodName" : "lambda$executeRecursively$6",
"fileName" : "NodeTestTask.java",
"lineNumber" : 151,
"nativeMethod" : false,
"className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
}, {
"classNameLoaderName" : "app",

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    "methodName" : "execute",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$297/0x00007fa6681
4f5c8"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "ThrowableCollector.java",
    "lineNumber" : 73,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
  }, {
    "classLoaderName" : "app",
    "methodName" : "lambda$executeRecursively$8",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 141,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invoke",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$296/0x00007fa6681
4f3a0"
  }, {
    "classLoaderName" : "app",
    "methodName" : "around",
    "fileName" : "Node.java",
    "lineNumber" : 137,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.Node"
  }, {
    "classLoaderName" : "app",
    "methodName" : "lambda$executeRecursively$9",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 139,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$295/0x00007fa6681
4ef78"

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    }, {
      "className" : "app",
      "methodName" : "execute",
      "fileName" : "ThrowableCollector.java",
      "lineNumber" : 73,
      "nativeMethod" : false,
      "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
    }, {
      "className" : "app",
      "methodName" : "executeRecursively",
      "fileName" : "NodeTestTask.java",
      "lineNumber" : 138,
      "nativeMethod" : false,
      "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
    }, {
      "className" : "app",
      "methodName" : "execute",
      "fileName" : "NodeTestTask.java",
      "lineNumber" : 95,
      "nativeMethod" : false,
      "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
    }, {
      "className" : "app",
      "methodName" : "accept",
      "lineNumber" : -1,
      "nativeMethod" : false,
      "className" :
"org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorService$$Lambda$301/0x00007fa668150238"
    }, {
      "moduleName" : "java.base",
      "moduleVersion" : "17.0.13",
      "methodName" : "forEach",
      "fileName" : "ArrayList.java",
      "lineNumber" : 1511,
      "nativeMethod" : false,
      "className" : "java.util.ArrayList"
    }, {
      "className" : "app",
      "methodName" : "invokeAll",
      "fileName" : "SameThreadHierarchicalTestExecutorService.java",
      "lineNumber" : 41,
      "nativeMethod" : false,
      "className" :
"org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorService"
    }, {
      "className" : "app",
      "methodName" : "lambda$executeRecursively$6",
      "fileName" : "NodeTestTask.java",

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    "lineNumber" : 155,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$297/0x00007fa6681
4f5c8"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "ThrowableCollector.java",
    "lineNumber" : 73,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
  }, {
    "classLoaderName" : "app",
    "methodName" : "lambda$executeRecursively$8",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 141,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invoke",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$296/0x00007fa6681
4f3a0"
  }, {
    "classLoaderName" : "app",
    "methodName" : "around",
    "fileName" : "Node.java",
    "lineNumber" : 137,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.Node"
  }, {
    "classLoaderName" : "app",
    "methodName" : "lambda$executeRecursively$9",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 139,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",

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    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$295/0x00007fa6681
4ef78"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "ThrowableCollector.java",
    "lineNumber" : 73,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
  }, {
    "classLoaderName" : "app",
    "methodName" : "executeRecursively",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 138,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 95,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "accept",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorServ
ice$$Lambda$301/0x00007fa668150238"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "forEach",
    "fileName" : "ArrayList.java",
    "lineNumber" : 1511,
    "nativeMethod" : false,
    "className" : "java.util.ArrayList"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invokeAll",
    "fileName" : "SameThreadHierarchicalTestExecutorService.java",
    "lineNumber" : 41,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorServ

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ice"
  }, {
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "className" : "app",
    "methodName" : "lambda$executeRecursively$6",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 155,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "className" : "app",
    "methodName" : "execute",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$297/0x00007fa6681
4f5c8"
  }, {
    "className" : "app",
    "methodName" : "execute",
    "fileName" : "ThrowableCollector.java",
    "lineNumber" : 73,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
  }, {
    "className" : "app",
    "methodName" : "lambda$executeRecursively$8",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 141,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "className" : "app",
    "methodName" : "invoke",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$296/0x00007fa6681
4f3a0"
  }, {
    "className" : "app",
    "methodName" : "around",
    "fileName" : "Node.java",
    "lineNumber" : 137,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.Node"
  }, {
    "className" : "app",
    "methodName" : "lambda$executeRecursively$9",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 139,

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    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$295/0x00007fa6681
4ef78"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "ThrowableCollector.java",
    "lineNumber" : 73,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
  }, {
    "classLoaderName" : "app",
    "methodName" : "executeRecursively",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 138,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 95,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "submit",
    "fileName" : "SameThreadHierarchicalTestExecutorService.java",
    "lineNumber" : 35,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorServ
ice"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "HierarchicalTestExecutor.java",
    "lineNumber" : 57,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.HierarchicalTestExecutor"
  }, {
    "classLoaderName" : "app",

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    "methodName" : "execute",
    "fileName" : "HierarchicalTestEngine.java",
    "lineNumber" : 54,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.HierarchicalTestEngine"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 147,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 127,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 90,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "classLoaderName" : "app",
    "methodName" : "lambda$execute$0",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 55,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "classLoaderName" : "app",
    "methodName" : "accept",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.launcher.core.EngineExecutionOrchestrator$$Lambda$249/0x00007fa668
13ad20"
  }, {
    "classLoaderName" : "app",
    "methodName" : "withInterceptedStreams",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 102,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "classLoaderName" : "app",

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    "methodName" : "execute",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 54,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "DefaultLauncher.java",
    "lineNumber" : 114,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.DefaultLauncher"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "DefaultLauncher.java",
    "lineNumber" : 86,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.DefaultLauncher"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "DefaultLauncherSession.java",
    "lineNumber" : 86,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.launcher.core.DefaultLauncherSession$DelegatingLauncher"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "SessionPerRequestLauncher.java",
    "lineNumber" : 53,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.SessionPerRequestLauncher"
  }, {
    "methodName" : "processAllTestClasses",
    "fileName" : "JUnitPlatformTestClassProcessor.java",
    "lineNumber" : 99,
    "nativeMethod" : false,
    "className" :
"org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor$C
ollectAllTestClassesExecutor"
  }, {
    "methodName" : "access$000",
    "fileName" : "JUnitPlatformTestClassProcessor.java",
    "lineNumber" : 79,
    "nativeMethod" : false,
    "className" :
"org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor$C
ollectAllTestClassesExecutor"
  }, {

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    "methodName" : "stop",
    "fileName" : "JUnitPlatformTestClassProcessor.java",
    "lineNumber" : 75,
    "nativeMethod" : false,
    "className" :
"org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor"
  }, {
    "methodName" : "stop",
    "fileName" : "SuiteTestClassProcessor.java",
    "lineNumber" : 62,
    "nativeMethod" : false,
    "className" : "org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "invoke0",
    "fileName" : "NativeMethodAccessorImpl.java",
    "lineNumber" : -2,
    "nativeMethod" : true,
    "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "invoke",
    "fileName" : "NativeMethodAccessorImpl.java",
    "lineNumber" : 77,
    "nativeMethod" : false,
    "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "invoke",
    "fileName" : "DelegatingMethodAccessorImpl.java",
    "lineNumber" : 43,
    "nativeMethod" : false,
    "className" : "jdk.internal.reflect.DelegatingMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "invoke",
    "fileName" : "Method.java",
    "lineNumber" : 569,
    "nativeMethod" : false,
    "className" : "java.lang.reflect.Method"
  }, {
    "methodName" : "dispatch",
    "fileName" : "ReflectionDispatch.java",
    "lineNumber" : 36,
    "nativeMethod" : false,
    "className" : "org.gradle.internal.dispatch.ReflectionDispatch"
  }, {

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    "methodName" : "dispatch",
    "fileName" : "ReflectionDispatch.java",
    "lineNumber" : 24,
    "nativeMethod" : false,
    "className" : "org.gradle.internal.dispatch.ReflectionDispatch"
  }, {
    "methodName" : "dispatch",
    "fileName" : "ContextClassLoaderDispatch.java",
    "lineNumber" : 33,
    "nativeMethod" : false,
    "className" : "org.gradle.internal.dispatch.ContextClassLoaderDispatch"
  }, {
    "methodName" : "invoke",
    "fileName" : "ProxyDispatchAdapter.java",
    "lineNumber" : 94,
    "nativeMethod" : false,
    "className" :
"org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler"
  }, {
    "moduleName" : "jdk.proxy1",
    "methodName" : "stop",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" : "jdk.proxy1.$Proxy2"
  }, {
    "methodName" : "run",
    "fileName" : "TestWorker.java",
    "lineNumber" : 193,
    "nativeMethod" : false,
    "className" : "org.gradle.api.internal.tasks.testing.worker.TestWorker$3"
  }, {
    "methodName" : "executeAndMaintainThreadName",
    "fileName" : "TestWorker.java",
    "lineNumber" : 129,
    "nativeMethod" : false,
    "className" : "org.gradle.api.internal.tasks.testing.worker.TestWorker"
  }, {
    "methodName" : "execute",
    "fileName" : "TestWorker.java",
    "lineNumber" : 100,
    "nativeMethod" : false,
    "className" : "org.gradle.api.internal.tasks.testing.worker.TestWorker"
  }, {
    "methodName" : "execute",
    "fileName" : "TestWorker.java",
    "lineNumber" : 60,
    "nativeMethod" : false,
    "className" : "org.gradle.api.internal.tasks.testing.worker.TestWorker"
  }, {
    "methodName" : "execute",
    "fileName" : "ActionExecutionWorker.java",

```

```

    "lineNumber" : 56,
    "nativeMethod" : false,
    "className" : "org.gradle.process.internal.worker.child.ActionExecutionWorker"
  }, {
    "methodName" : "call",
    "fileName" : "SystemApplicationClassLoaderWorker.java",
    "lineNumber" : 113,
    "nativeMethod" : false,
    "className" :
"org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker"
  }, {
    "methodName" : "call",
    "fileName" : "SystemApplicationClassLoaderWorker.java",
    "lineNumber" : 65,
    "nativeMethod" : false,
    "className" :
"org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker"
  }, {
    "classLoaderName" : "app",
    "methodName" : "run",
    "fileName" : "GradleWorkerMain.java",
    "lineNumber" : 69,
    "nativeMethod" : false,
    "className" : "worker.org.gradle.process.internal.worker.GradleWorkerMain"
  }, {
    "classLoaderName" : "app",
    "methodName" : "main",
    "fileName" : "GradleWorkerMain.java",
    "lineNumber" : 74,
    "nativeMethod" : false,
    "className" : "worker.org.gradle.process.internal.worker.GradleWorkerMain"
  } ],
  "lockedMonitors" : [ ],
  "lockedSynchronizers" : [ ]
}, {
  "threadName" : "Reference Handler",
  "threadId" : 2,
  "blockedTime" : -1,
  "blockedCount" : 5,
  "waitedTime" : -1,
  "waitedCount" : 0,
  "lockOwnerId" : -1,
  "daemon" : true,
  "inNative" : false,
  "suspended" : false,
  "threadState" : "RUNNABLE",
  "priority" : 10,
  "stackTrace" : [ {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "waitForReferencePendingList",

```

```

    "fileName" : "Reference.java",
    "lineNumber" : -2,
    "nativeMethod" : true,
    "className" : "java.lang.ref.Reference"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "processPendingReferences",
    "fileName" : "Reference.java",
    "lineNumber" : 253,
    "nativeMethod" : false,
    "className" : "java.lang.ref.Reference"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "run",
    "fileName" : "Reference.java",
    "lineNumber" : 215,
    "nativeMethod" : false,
    "className" : "java.lang.ref.Reference$ReferenceHandler"
  } ],
  "lockedMonitors" : [ ],
  "lockedSynchronizers" : [ ]
}, {
  "threadName" : "Finalizer",
  "threadId" : 3,
  "blockedTime" : -1,
  "blockedCount" : 1,
  "waitedTime" : -1,
  "waitedCount" : 2,
  "lockName" : "java.lang.ref.ReferenceQueue$Lock@66709528",
  "lockOwnerId" : -1,
  "daemon" : true,
  "inNative" : false,
  "suspended" : false,
  "threadState" : "WAITING",
  "priority" : 8,
  "stackTrace" : [ {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "wait",
    "lineNumber" : -2,
    "nativeMethod" : true,
    "className" : "java.lang.Object"
  } ], {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "remove",
    "fileName" : "ReferenceQueue.java",
    "lineNumber" : 155,
    "nativeMethod" : false,

```

```

    "className" : "java.lang.ref.ReferenceQueue"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "remove",
    "fileName" : "ReferenceQueue.java",
    "lineNumber" : 176,
    "nativeMethod" : false,
    "className" : "java.lang.ref.ReferenceQueue"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.13",
    "methodName" : "run",
    "fileName" : "Finalizer.java",
    "lineNumber" : 172,
    "nativeMethod" : false,
    "className" : "java.lang.ref.Finalizer$FinalizerThread"
  } ],
  "lockedMonitors" : [ ],
  "lockedSynchronizers" : [ ],
  "lockInfo" : {
    "className" : "java.lang.ref.ReferenceQueue$Lock",
    "identityHashCode" : 1718654248
  }
} ]
}

```

### 25.1.1. Response Structure

The response contains details of the JVM's threads. The following table describes the structure of the response:

| Path                                | Type    | Description   |
|-------------------------------------|---------|---|
| <code>threads</code>                | Array   | JVM's threads.  |
| <code>threads[].blockedCount</code> | Number  | Total number of times that the thread has been blocked.   |
| <code>threads[].blockedTime</code>  | Number  | Time in milliseconds that the thread has spent blocked. -1 if thread contention monitoring is disabled. |
| <code>threads[].daemon</code>       | Boolean | Whether the thread is a daemon thread. Only available on Java 9 or later.                               |
| <code>threads[].inNative</code>     | Boolean | Whether the thread is executing native code.  |

| Path  | Type   | Description  |
|---|--------|--|
| <code>threads[].lockName</code>                               | String | Description of the object on which the thread is blocked, if any.  |
| <code>threads[].lockInfo</code>                               | Object | Object for which the thread is blocked waiting.  |
| <code>threads[].lockInfo.className</code>                     | String | Fully qualified class name of the lock object.   |
| <code>threads[].lockInfo.identityHashCode</code>              | Number | Identity hash code of the lock object.   |
| <code>threads[].lockedMonitors</code>                         | Array  | Monitors locked by this thread, if any   |
| <code>threads[].lockedMonitors[].className</code>             | String | Class name of the lock object.   |
| <code>threads[].lockedMonitors[].identityHashCode</code>      | Number | Identity hash code of the lock object.   |
| <code>threads[].lockedMonitors[].lockedStackDepth</code>      | Number | Stack depth where the monitor was locked.  |
| <code>threads[].lockedMonitors[].lockedStackFrame</code>      | Object | Stack frame that locked the monitor.   |
| <code>threads[].lockedSynchronizers</code>                    | Array  | Synchronizers locked by this thread.   |
| <code>threads[].lockedSynchronizers[].className</code>        | String | Class name of the locked synchronizer.   |
| <code>threads[].lockedSynchronizers[].identityHashCode</code> | Number | Identity hash code of the locked synchronizer.   |
| <code>threads[].lockOwnerId</code>                            | Number | ID of the thread that owns the object on which the thread is blocked. <code>-1</code> if the thread is not blocked.                          |
| <code>threads[].lockOwnerName</code>                          | String | Name of the thread that owns the object on which the thread is blocked, if any.  |
| <code>threads[].priority</code>                               | Number | Priority of the thread. Only available on Java 9 or later.   |
| <code>threads[].stackTrace</code>                             | Array  | Stack trace of the thread.   |
| <code>threads[].stackTrace[].classLoaderName</code>           | String | Name of the class loader of the class that contains the execution point identified by this entry, if any. Only available on Java 9 or later. |



| Path  | Type    | Description  |
|---|---------|--|
| <code>threads[].stackTrace[].className</code>     | String  | Name of the class that contains the execution point identified by this entry.  |
| <code>threads[].stackTrace[].fileName</code>      | String  | Name of the source file that contains the execution point identified by this entry, if any.  |
| <code>threads[].stackTrace[].lineNumber</code>    | Number  | Line number of the execution point identified by this entry. Negative if unknown.  |
| <code>threads[].stackTrace[].methodName</code>    | String  | Name of the method.  |
| <code>threads[].stackTrace[].moduleName</code>    | String  | Name of the module that contains the execution point identified by this entry, if any. Only available on Java 9 or later.          |
| <code>threads[].stackTrace[].moduleVersion</code> | String  | Version of the module that contains the execution point identified by this entry, if any. Only available on Java 9 or later.       |
| <code>threads[].stackTrace[].nativeMethod</code>  | Boolean | Whether the execution point is a native method.  |
| <code>threads[].suspended</code>                  | Boolean | Whether the thread is suspended.   |
| <code>threads[].threadId</code>                   | Number  | ID of the thread.  |
| <code>threads[].threadName</code>                 | String  | Name of the thread.  |
| <code>threads[].threadState</code>                | String  | State of the thread ( <b>NEW</b> , <b>RUNNABLE</b> , <b>BLOCKED</b> , <b>WAITING</b> , <b>TIMED_WAITING</b> , <b>TERMINATED</b> ). |
| <code>threads[].waitedCount</code>                | Number  | Total number of times that the thread has waited for notification.   |
| <code>threads[].waitedTime</code>                 | Number  | Time in milliseconds that the thread has spent waiting. -1 if thread contention monitoring is disabled                             |

## 25.2. Retrieving the Thread Dump as Text

To retrieve the thread dump as text, make a **GET** request to `/actuator/threaddump` that accepts `text/plain`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/threaddump' -i -X GET \  
-H 'Accept: text/plain'
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK  
Content-Type: text/plain;charset=UTF-8  
Content-Length: 52782  
  
2024-11-19 01:38:16  
Full thread dump OpenJDK 64-Bit Server VM (17.0.13+12-LTS mixed mode, sharing):  
  
"Test worker" - Thread t@1  
  java.lang.Thread.State: RUNNABLE  
    at java.management@17.0.13/sun.management.ThreadImpl.dumpThreads0(Native Method)  
    at  
java.management@17.0.13/sun.management.ThreadImpl.dumpAllThreads(ThreadImpl.java:528)  
  at  
java.management@17.0.13/sun.management.ThreadImpl.dumpAllThreads(ThreadImpl.java:516)  
  at  
app//org.springframework.boot.actuate.management.ThreadDumpEndpoint.getFormattedThread  
Dump(ThreadDumpEndpoint.java:52)  
  at  
app//org.springframework.boot.actuate.management.ThreadDumpEndpoint.textThreadDump(Thr  
eadDumpEndpoint.java:48)  
    at java.base@17.0.13/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native  
Method)  
    at  
java.base@17.0.13/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAcc  
essorImpl.java:77)  
    at  
java.base@17.0.13/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingM  
ethodAccessorImpl.java:43)  
    at java.base@17.0.13/java.lang.reflect.Method.invoke(Method.java:569)  
    at  
app//org.springframework.util.ReflectionUtils.invokeMethod(ReflectionUtils.java:281)  
    at  
app//org.springframework.boot.actuate.endpoint.invoke.reflect.ReflectiveOperationInvok  
er.invoke(ReflectiveOperationInvoker.java:74)  
    at  
app//org.springframework.boot.actuate.endpoint.annotation.AbstractDiscoveredOperation.  
invoke(AbstractDiscoveredOperation.java:60)  
    at  
app//org.springframework.boot.actuate.endpoint.web.servlet.AbstractWebMvcEndpointHandl  
erMapping$ServletWebOperationAdapter.handle(AbstractWebMvcEndpointHandlerMapping.java:  
327)  
    at  
app//org.springframework.boot.actuate.endpoint.web.servlet.AbstractWebMvcEndpointHandl  
erMapping$OperationHandler.handle(AbstractWebMvcEndpointHandlerMapping.java:434)
```

```

    at jdk.internal.reflect.GeneratedMethodAccessor63.invoke(Unknown Source)
    at
java.base@17.0.13/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.base@17.0.13/java.lang.reflect.Method.invoke(Method.java:569)
    at
app//org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(InvocableHandlerMethod.java:205)
    at
app//org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:150)
    at
app//org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:118)
    at
app//org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:892)
    at
app//org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:798)
    at
app//org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(AbstractHandlerMethodAdapter.java:87)
    at
app//org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:1081)
    at
app//org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:974)
    at
app//org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:1014)
    at
app//org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:903)
    at app//jakarta.servlet.http.HttpServlet.service(HttpServlet.java:527)
    at
app//org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:885)
    at
app//org.springframework.test.web.servlet.TestDispatcherServlet.service(TestDispatcherServlet.java:72)
    at app//jakarta.servlet.http.HttpServlet.service(HttpServlet.java:614)
    at
app//org.springframework.mock.web.MockFilterChain$ServletFilterProxy.doFilter(MockFilterChain.java:165)
    at
app//org.springframework.mock.web.MockFilterChain.doFilter(MockFilterChain.java:132)
    at app//org.springframework.test.web.servlet.MockMvc.perform(MockMvc.java:201)
    at
app//org.springframework.boot.actuate.autoconfigure.endpoint.web.documentation.ThreadDumpEndpointDocumentationTests.textThreadDump(ThreadDumpEndpointDocumentationTests.java

```

```

:182)
    at java.base@17.0.13/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native
Method)
    at
java.base@17.0.13/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAcc
essorImpl.java:77)
    at
java.base@17.0.13/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingM
ethodAccessorImpl.java:43)
    at java.base@17.0.13/java.lang.reflect.Method.invoke(Method.java:569)
    at
app//org.junit.platform.commons.util.ReflectionUtils.invokeMethod(ReflectionUtils.java
:727)
    at
app//org.junit.jupiter.engine.execution.MethodInvocation.proceed(MethodInvocation.java
:60)
    at
app//org.junit.jupiter.engine.execution.InvocationInterceptorChain$ValidatingInvocatio
n.proceed(InvocationInterceptorChain.java:131)
    at
app//org.junit.jupiter.engine.extension.TimeoutExtension.intercept(TimeoutExtension.ja
va:156)
    at
app//org.junit.jupiter.engine.extension.TimeoutExtension.interceptTestableMethod(Timeo
utExtension.java:147)
    at
app//org.junit.jupiter.engine.extension.TimeoutExtension.interceptTestMethod(TimeoutEx
tension.java:86)
    at
app//org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor$$Lambda$194/0x00007f
a6681327a8.apply(Unknown Source)
    at
app//org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$ReflectiveInterc
eptorCall.lambda$ofVoidMethod$0(InterceptingExecutableInvoker.java:103)
    at
app//org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$ReflectiveInterc
eptorCall$$Lambda$195/0x00007fa668132bc8.apply(Unknown Source)
    at
app//org.junit.jupiter.engine.execution.InterceptingExecutableInvoker.lambda$invoke$0(
InterceptingExecutableInvoker.java:93)
    at
app//org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$$Lambda$460/0x00
007fa6681dd378.apply(Unknown Source)
    at
app//org.junit.jupiter.engine.execution.InvocationInterceptorChain$InterceptedInvocati
on.proceed(InvocationInterceptorChain.java:106)
    at
app//org.junit.jupiter.engine.execution.InvocationInterceptorChain.proceed(Invocatio
nInterceptorChain.java:64)
    at
app//org.junit.jupiter.engine.execution.InvocationInterceptorChain.chainAndInvoke(Invo

```

```
cationInterceptorChain.java:45)
    at
app//org.junit.jupiter.engine.execution.InvocationInterceptorChain.invoke(InvocationIn
terceptorChain.java:37)
    at
app//org.junit.jupiter.engine.execution.InterceptingExecutableInvoker.invoke(Intercept
ingExecutableInvoker.java:92)
    at
app//org.junit.jupiter.engine.execution.InterceptingExecutableInvoker.invoke(Intercept
ingExecutableInvoker.java:86)
    at
app//org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.lambda$invokeTestMet
hod$7(TestMethodTestDescriptor.java:217)
    at
app//org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor$$Lambda$968/0x00007fa
a6685d11f0.execute(Unknown Source)
    at
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.invokeTestMethod(Tes
tMethodTestDescriptor.java:213)
    at
app//org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.execute(TestMethodTe
stDescriptor.java:138)
    at
app//org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.execute(TestMethodTe
stDescriptor.java:68)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$6(NodeTestTask.java:151)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$297/0x00007fa
66814f5c8.execute(Unknown Source)
    at
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$8(NodeTestTask.java:141)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$296/0x00007fa
66814f3a0.invoke(Unknown Source)
    at app//org.junit.platform.engine.support.hierarchical.Node.around(Node.java:137)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$9(NodeTestTask.java:139)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$295/0x00007fa
66814ef78.execute(Unknown Source)
    at
```

```
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.executeRecursively(No
deTestTask.java:138)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.execute(NodeTestTask.
java:95)
    at
app//org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecuto
rService$$Lambda$301/0x000007fa668150238.accept(Unknown Source)
    at java.base@17.0.13/java.util.ArrayList.forEach(ArrayList.java:1511)
    at
app//org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecuto
rService.invokeAll(SameThreadHierarchicalTestExecutorService.java:41)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$6(NodeTestTask.java:155)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$297/0x000007fa
66814f5c8.execute(Unknown Source)
    at
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$8(NodeTestTask.java:141)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$296/0x000007fa
66814f3a0.invoke(Unknown Source)
    at app//org.junit.platform.engine.support.hierarchical.Node.around(Node.java:137)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$9(NodeTestTask.java:139)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$295/0x000007fa
66814ef78.execute(Unknown Source)
    at
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.executeRecursively(No
deTestTask.java:138)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.execute(NodeTestTask.
java:95)
    at
app//org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecuto
rService$$Lambda$301/0x000007fa668150238.accept(Unknown Source)
    at java.base@17.0.13/java.util.ArrayList.forEach(ArrayList.java:1511)
    at
```

```
app//org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutor
Service.invokeAll(SameThreadHierarchicalTestExecutorService.java:41)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$6(NodeTestTask.java:155)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$297/0x00007fa
66814f5c8.execute(Unknown Source)
    at
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$8(NodeTestTask.java:141)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$296/0x00007fa
66814f3a0.invoke(Unknown Source)
    at app//org.junit.platform.engine.support.hierarchical.Node.around(Node.java:137)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$9(NodeTestTask.java:139)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$295/0x00007fa
66814ef78.execute(Unknown Source)
    at
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.executeRecursively(N
odeTestTask.java:138)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.execute(NodeTestTask.
java:95)
    at
app//org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecu
torService.submit(SameThreadHierarchicalTestExecutorService.java:35)
    at
app//org.junit.platform.engine.support.hierarchical.HierarchicalTestExecutor.execute(H
ierarchicalTestExecutor.java:57)
    at
app//org.junit.platform.engine.support.hierarchical.HierarchicalTestEngine.execute(Hie
rarchicalTestEngine.java:54)
    at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.execute(EngineExecu
tionOrchestrator.java:147)
    at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.execute(EngineExecu
tionOrchestrator.java:127)
    at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.execute(EngineExecu
tionOrchestrator.java:90)
```

```
at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.lambda$execute$0(Eng
ineExecutionOrchestrator.java:55)
at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator$$Lambda$249/0x00007f
a66813ad20.accept(Unknown Source)
at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.withInterceptedStrea
ms(EngineExecutionOrchestrator.java:102)
at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.execute(EngineExecut
ionOrchestrator.java:54)
at
app//org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:114
)
at
app//org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:86)
at
app//org.junit.platform.launcher.core.DefaultLauncherSession$DelegatingLauncher.execut
e(DefaultLauncherSession.java:86)
at
app//org.junit.platform.launcher.core.SessionPerRequestLauncher.execute(SessionPerRequ
estLauncher.java:53)
at
org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor$Co
llectAllTestClassesExecutor.processAllTestClasses(JUnitPlatformTestClassProcessor.java
:99)
at
org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor$Co
llectAllTestClassesExecutor.access$000(JUnitPlatformTestClassProcessor.java:79)
at
org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor.st
op(JUnitPlatformTestClassProcessor.java:75)
at
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.stop(SuiteTestClassProce
ssor.java:62)
at java.base@17.0.13/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native
Method)
at
java.base@17.0.13/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAcc
essorImpl.java:77)
at
java.base@17.0.13/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingM
ethodAccessorImpl.java:43)
at java.base@17.0.13/java.lang.reflect.Method.invoke(Method.java:569)
at
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
at
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
at
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderDis
```



```
patch.java:33)
    at
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invoke(
ProxyDispatchAdapter.java:94)
    at jdk.proxy1/jdk.proxy1.$Proxy2.stop(Unknown Source)
    at
org.gradle.api.internal.tasks.testing.worker.TestWorker$3.run(TestWorker.java:193)
    at
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName(T
estWorker.java:129)
    at
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
    at
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
    at
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecution
Worker.java:56)
    at
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Syste
mApplicationClassLoaderWorker.java:113)
    at
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Syste
mApplicationClassLoaderWorker.java:65)
    at
app//worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.j
ava:69)
    at
app//worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.
java:74)
```

Locked ownable synchronizers:

- None

"Reference Handler" - Thread t@2

java.lang.Thread.State: RUNNABLE

at java.base@17.0.13/java.lang.ref.Reference.waitForReferencePendingList(Native  
Method)

at

java.base@17.0.13/java.lang.ref.Reference.processPendingReferences(Reference.java:253)

at

java.base@17.0.13/java.lang.ref.Reference\$ReferenceHandler.run(Reference.java:215)

Locked ownable synchronizers:

- None

"Finalizer" - Thread t@3

java.lang.Thread.State: WAITING

at java.base@17.0.13/java.lang.Object.wait(Native Method)

- waiting on <66709528> (a java.lang.ref.ReferenceQueue\$Lock)

at java.base@17.0.13/java.lang.ref.ReferenceQueue.remove(ReferenceQueue.java:155)

at java.base@17.0.13/java.lang.ref.ReferenceQueue.remove(ReferenceQueue.java:176)

```
at
java.base@17.0.13/java.lang.ref.Finalizer$FinalizerThread.run(Finalizer.java:172)
```

```
Locked ownable synchronizers:
- None
```

```
"Signal Dispatcher" - Thread t@4
java.lang.Thread.State: RUNNABLE
```

```
Locked ownable synchronizers:
- None
```

```
"Common-Cleaner" - Thread t@11
java.lang.Thread.State: TIMED_WAITING
at java.base@17.0.13/java.lang.Object.wait(Native Method)
- waiting on <12326ccb> (a java.lang.ref.ReferenceQueue$Lock)
at java.base@17.0.13/java.lang.ref.ReferenceQueue.remove(ReferenceQueue.java:155)
at java.base@17.0.13/jdk.internal.ref.CleanerImpl.run(CleanerImpl.java:140)
at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
at
java.base@17.0.13/jdk.internal.misc.InnocuousThread.run(InnocuousThread.java:162)
```

```
Locked ownable synchronizers:
- None
```

```
"Notification Thread" - Thread t@12
java.lang.Thread.State: RUNNABLE
```

```
Locked ownable synchronizers:
- None
```

```
"/127.0.0.1:37136 to /127.0.0.1:38985 workers" - Thread t@14
java.lang.Thread.State: WAITING
at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
- parking to wait for <23673954> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1630)
at
```

```

org.gradle.internal.remote.internal.hub.queue.EndPointQueue.take(EndPointQueue.java:49
)
    at
org.gradle.internal.remote.internal.hub.MessageHub$Handler.run(MessageHub.java:403)
    at
org.gradle.internal.concurrent.ExecutorPolicy$CatchAndRecordFailures.onExecute(Executo
rPolicy.java:64)
    at
org.gradle.internal.concurrent.ManagedExecutorImpl$1.run(ManagedExecutorImpl.java:49)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecuto
r.java:1136)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecuto
r.java:635)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:
- Locked <71c3b41> (a java.util.concurrent.ThreadPoolExecutor$Worker)

"/127.0.0.1:37136 to /127.0.0.1:38985 workers Thread 2" - Thread t@15
  java.lang.Thread.State: WAITING
    at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <4a02197b> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
    at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1630)
    at
org.gradle.internal.remote.internal.hub.queue.EndPointQueue.take(EndPointQueue.java:49
)
    at
org.gradle.internal.remote.internal.hub.MessageHub$ConnectionDispatch.run(MessageHub.j
ava:322)
    at
org.gradle.internal.concurrent.ExecutorPolicy$CatchAndRecordFailures.onExecute(Executo
rPolicy.java:64)
    at
org.gradle.internal.concurrent.ManagedExecutorImpl$1.run(ManagedExecutorImpl.java:49)
    at

```

```

java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor
.java:1136)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecuto
r.java:635)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:
- Locked <41fecb8b> (a java.util.concurrent.ThreadPoolExecutor$Worker)

"/127.0.0.1:37136 to /127.0.0.1:38985 workers Thread 3" - Thread t@16
java.lang.Thread.State: RUNNABLE
    at java.base@17.0.13/sun.nio.ch.EPoll.wait(Native Method)
    at
java.base@17.0.13/sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:118)
    at
java.base@17.0.13/sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:129)
    - locked <28391cc6> (a sun.nio.ch.Util$2)
    - locked <33db58ce> (a sun.nio.ch.EPollSelectorImpl)
    at java.base@17.0.13/sun.nio.ch.SelectorImpl.select(SelectorImpl.java:146)
    at
org.gradle.internal.remote.internal.inet.SocketConnection$SocketInputStream.read(Socket
tConnection.java:185)
    at com.esotericsoftware.kryo.io.Input.fill(Input.java:146)
    at com.esotericsoftware.kryo.io.Input.require(Input.java:178)
    at com.esotericsoftware.kryo.io.Input.readByte(Input.java:295)
    at
org.gradle.internal.serialize.kryo.KryoBackedDecoder.readByte(KryoBackedDecoder.java:8
8)
    at
org.gradle.internal.remote.internal.hub.InterHubMessageSerializer$MessageReader.read(I
nterHubMessageSerializer.java:64)
    at
org.gradle.internal.remote.internal.hub.InterHubMessageSerializer$MessageReader.read(I
nterHubMessageSerializer.java:52)
    at
org.gradle.internal.remote.internal.inet.SocketConnection.receive(SocketConnection.jav
a:81)
    at
org.gradle.internal.remote.internal.hub.MessageHub$ConnectionReceive.run(MessageHub.ja
va:270)
    at
org.gradle.internal.concurrent.ExecutorPolicy$CatchAndRecordFailures.onExecute(Executo
rPolicy.java:64)
    at
org.gradle.internal.concurrent.ManagedExecutorImpl$1.run(ManagedExecutorImpl.java:49)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor
.java:1136)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecuto

```

```

r.java:635)
  at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:
  - Locked <66498326> (a java.util.concurrent.ThreadPoolExecutor$Worker)

"process reaper" - Thread t@20
  java.lang.Thread.State: TIMED_WAITING
    at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
      - parking to wait for <6948460f> (a
java.util.concurrent.SynchronousQueue$TransferStack)
    at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:252)
    at
java.base@17.0.13/java.util.concurrent.SynchronousQueue$TransferStack.transfer(SynchronousQueue.java:401)
    at
java.base@17.0.13/java.util.concurrent.SynchronousQueue.poll(SynchronousQueue.java:903)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1061)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1122)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:
  - None

"Attach Listener" - Thread t@21
  java.lang.Thread.State: RUNNABLE

Locked ownable synchronizers:
  - None

"HikariPool-1 housekeeper" - Thread t@29
  java.lang.Thread.State: TIMED_WAITING
    at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
      - parking to wait for <9f7a8cc> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:252)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(AbstractQueuedSynchronizer.java:1679)

```

```
at
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:1182)
at
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:899)
at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1062)
at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1122)
at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None

```
"boundedElastic-evictor-1" - Thread t@40
java.lang.Thread.State: TIMED_WAITING
at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
- parking to wait for <43188555> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:252)
at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(AbstractQueuedSynchronizer.java:1679)
at
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:1182)
at
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:899)
at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1062)
at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1122)
at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None

```
"reactor-http-epoll-1" - Thread t@41
  java.lang.Thread.State: RUNNABLE
    at app//io.netty.channel.epoll.Native.epollWait(Native Method)
    at app//io.netty.channel.epoll.Native.epollWait(Native.java:220)
    at app//io.netty.channel.epoll.Native.epollWait(Native.java:213)
    at
app//io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:
308)
    at app//io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:365)
    at
app//io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecuto
r.java:994)
    at app//io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
app//io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java
:30)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

```
Locked ownable synchronizers:
- None
```

```
"server" - Thread t@42
  java.lang.Thread.State: WAITING
    at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <2a6ca8d0> (a java.util.concurrent.CountDownLatch$Sync)
    at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:211)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer.acquire(Abstra
ctQueuedSynchronizer.java:715)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer.acquireSharedI
nterruptibly(AbstractQueuedSynchronizer.java:1047)
    at
java.base@17.0.13/java.util.concurrent.CountDownLatch.await(CountDownLatch.java:230)
    at
app//reactor.core.publisher.BlockingSingleSubscriber.blockingGet(BlockingSingleSubscri
ber.java:90)
    at app//reactor.core.publisher.Mono.block(Mono.java:1712)
    at
app//org.springframework.boot.web.embedded.netty.NettyWebServer$1.run(NettyWebServer.j
ava:189)
```

```
Locked ownable synchronizers:
- None
```

```
"reactor-http-epoll-2" - Thread t@43
  java.lang.Thread.State: RUNNABLE
    at app//io.netty.channel.epoll.Native.epollWait(Native Method)
    at app//io.netty.channel.epoll.Native.epollWait(Native.java:220)
    at app//io.netty.channel.epoll.Native.epollWait(Native.java:213)
```

```
at
app//io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:
308)
at app//io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:365)
at
app//io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecuto
r.java:994)
at app//io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
at
app//io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java
:30)
at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None

"reactor-http-epoll-3" - Thread t@44

java.lang.Thread.State: RUNNABLE

```
at app//io.netty.channel.epoll.Native.epollWait(Native Method)
at app//io.netty.channel.epoll.Native.epollWait(Native.java:220)
at app//io.netty.channel.epoll.Native.epollWait(Native.java:213)
at
app//io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:
308)
at app//io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:365)
at
app//io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecuto
r.java:994)
at app//io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
at
app//io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java
:30)
at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None

"reactor-http-epoll-4" - Thread t@45

java.lang.Thread.State: RUNNABLE

```
at app//io.netty.channel.epoll.Native.epollWait(Native Method)
at app//io.netty.channel.epoll.Native.epollWait(Native.java:220)
at app//io.netty.channel.epoll.Native.epollWait(Native.java:213)
at
app//io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:
308)
at app//io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:365)
at
app//io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecuto
r.java:994)
at app//io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
at
```



```
app//io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
```

```
at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

```
Locked ownable synchronizers:
```

```
- None
```

```
"boundedElastic-1" - Thread t@46
```

```
java.lang.Thread.State: WAITING
```

```
at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
```

```
- parking to wait for <1bffbac> (a
```

```
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
```

```
at
```

```
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
```

```
at
```

```
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.  
block(AbstractQueuedSynchronizer.java:506)
```

```
at
```

```
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)
```

```
at
```

```
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)
```

```
at
```

```
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.  
await(AbstractQueuedSynchronizer.java:1630)
```

```
at
```

```
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.  
take(ScheduledThreadPoolExecutor.java:1170)
```

```
at
```

```
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.  
take(ScheduledThreadPoolExecutor.java:899)
```

```
at
```

```
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.  
java:1062)
```

```
at
```

```
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecu  
tor.java:1122)
```

```
at
```

```
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecu  
tor.java:635)
```

```
at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

```
Locked ownable synchronizers:
```

```
- None
```

```
"Catalina-utility-1" - Thread t@48
```

```
java.lang.Thread.State: TIMED_WAITING
```

```
at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
```

```
- parking to wait for <353a829f> (a
```

```
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
```

```
    at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:252)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(AbstractQueuedSynchronizer.java:1679)
    at
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:1182)
    at
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:899)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1062)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1122)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None

```
"Catalina-utility-2" - Thread t@49
  java.lang.Thread.State: WAITING
    at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <353a829f> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)
    at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQueuedSynchronizer.java:1630)
    at
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:1177)
```

```
    at
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.ta
ke(ScheduledThreadPoolExecutor.java:899)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.j
ava:1062)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecuto
r.java:1122)
    at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecuto
r.java:635)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63
)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None

"container-0" - Thread t@50

java.lang.Thread.State: TIMED\_WAITING

at java.base@17.0.13/java.lang.Thread.sleep(Native Method)

at app//org.apache.catalina.core.StandardServer.await(StandardServer.java:524)

at

app//org.springframework.boot.web.embedded.tomcat.TomcatWebServer\$1.run(TomcatWebServe
r.java:197)

Locked ownable synchronizers:

- None

"http-nio-auto-1-exec-1" - Thread t@51

java.lang.Thread.State: WAITING

at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)

- parking to wait for <320f9b40> (a

java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject)

at

java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)

at

java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)

at

java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)

at

java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)

at

java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1630)

at

```
java.base@17.0.13/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:435)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1114)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1175)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:659)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None

"http-nio-auto-1-exec-2" - Thread t@52

java.lang.Thread.State: WAITING

at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)

- parking to wait for <320f9b40> (a

java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject)

at

java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)

at

java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionNode.block(AbstractQueuedSynchronizer.java:506)

at

java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)

at

java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)

at

java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject.await(AbstractQueuedSynchronizer.java:1630)

at

java.base@17.0.13/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:435)

at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)

at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)

at

app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1114)

at

app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1175)

```

    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:659)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:
- None

"http-nio-auto-1-exec-3" - Thread t@53
  java.lang.Thread.State: WAITING
    at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <320f9b40> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)
    at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQueuedSynchronizer.java:1630)
    at
java.base@17.0.13/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:435)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1114)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1175)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:659)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:
- None

```

```
"http-nio-auto-1-exec-4" - Thread t@54
  java.lang.Thread.State: WAITING
    at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
      - parking to wait for <320f9b40> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
  at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
  at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
  at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
  at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
  at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1630)
  at
java.base@17.0.13/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.ja
va:435)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java
:1114)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.ja
va:1175)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.j
ava:659)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63
)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None

```
"http-nio-auto-1-exec-5" - Thread t@55
  java.lang.Thread.State: WAITING
    at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
      - parking to wait for <320f9b40> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
  at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
  at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
```

```

block(AbstractQueuedSynchronizer.java:506)
  at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)
  at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)
  at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQueuedSynchronizer.java:1630)
  at
java.base@17.0.13/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:435)
  at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
  at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1114)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1175)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:659)
  at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63)
  at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

```

Locked ownable synchronizers:

- None

```

"http-nio-auto-1-exec-6" - Thread t@56
  java.lang.Thread.State: WAITING
  at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
  - parking to wait for <320f9b40> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
  at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
  at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.block(AbstractQueuedSynchronizer.java:506)
  at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)
  at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)
  at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQueuedSynchronizer.java:1630)

```

```
at
java.base@17.0.13/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:435)
  at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
  at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1114)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1175)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:659)
  at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63)
)
  at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None

"http-nio-auto-1-exec-7" - Thread t@57

java.lang.Thread.State: WAITING

at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)

- parking to wait for <320f9b40> (a

java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject)

at

java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)

at

java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionNode.block(AbstractQueuedSynchronizer.java:506)

at

java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)

at

java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)

at

java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject.await(AbstractQueuedSynchronizer.java:1630)

at

java.base@17.0.13/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:435)

at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)

at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)

at

app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1114)

at

app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java



```

va:1175)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.j
ava:659)
  at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63
)
  at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:
- None

"http-nio-auto-1-exec-8" - Thread t@58
  java.lang.Thread.State: WAITING
  at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
  - parking to wait for <320f9b40> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
  at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
  at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
  at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
  at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
  at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1630)
  at
java.base@17.0.13/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.ja
va:435)
  at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
  at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java
:1114)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.ja
va:1175)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.j
ava:659)
  at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63
)
  at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:

```

- None

```
"http-nio-auto-1-exec-9" - Thread t@59
  java.lang.Thread.State: WAITING
    at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
      - parking to wait for <320f9b40> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
    at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1630)
    at
java.base@17.0.13/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.ja
va:435)
      at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
      at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
      at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java
:1114)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.ja
va:1175)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.j
ava:659)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63
)
      at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None

```
"http-nio-auto-1-exec-10" - Thread t@60
  java.lang.Thread.State: WAITING
    at java.base@17.0.13/jdk.internal.misc.Unsafe.park(Native Method)
      - parking to wait for <320f9b40> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.13/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
```

```

java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
    at
java.base@17.0.13/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
    at
java.base@17.0.13/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1630)
    at
java.base@17.0.13/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.ja
va:435)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.ja
va:1114)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.ja
va:1175)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.j
ava:659)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63
)
    at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

```

Locked ownable synchronizers:

- None

"http-nio-auto-1-Poller" - Thread t@61

java.lang.Thread.State: RUNNABLE

at java.base@17.0.13/sun.nio.ch.EPoll.wait(Native Method)

at

java.base@17.0.13/sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:118)

at

java.base@17.0.13/sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:129)

- locked <7dea9ff9> (a sun.nio.ch.Util\$2)

- locked <3767973> (a sun.nio.ch.EPollSelectorImpl)

at java.base@17.0.13/sun.nio.ch.SelectorImpl.select(SelectorImpl.java:141)

at app//org.apache.tomcat.util.net.NioEndpoint\$Poller.run(NioEndpoint.java:755)

at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:

- None

"http-nio-auto-1-Acceptor" - Thread t@62

java.lang.Thread.State: RUNNABLE

```
at java.base@17.0.13/sun.nio.ch.Net.accept(Native Method)
at
java.base@17.0.13/sun.nio.ch.ServerSocketChannelImpl.implAccept(ServerSocketChannelImpl.java:425)
at
java.base@17.0.13/sun.nio.ch.ServerSocketChannelImpl.accept(ServerSocketChannelImpl.java:391)
at
app//org.apache.tomcat.util.net.NioEndpoint.serverSocketAccept(NioEndpoint.java:518)
at
app//org.apache.tomcat.util.net.NioEndpoint.serverSocketAccept(NioEndpoint.java:71)
at app//org.apache.tomcat.util.net.Acceptor.run(Acceptor.java:128)
at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- Locked <62b92df8> (a java.util.concurrent.locks.ReentrantLock\$NonfairSync)

"pool-4-thread-1" - Thread t@67

java.lang.Thread.State: RUNNABLE

```
at
java.base@17.0.13/java.lang.invoke.VarHandleInts$FieldInstanceReadWrite.setRelease(VarHandleInts.java:170)
at
java.base@17.0.13/java.lang.invoke.VarHandleGuards.guard_LI_V(VarHandleGuards.java:122)
)
at java.base@17.0.13/java.util.concurrent.FutureTask.set(FutureTask.java:231)
at java.base@17.0.13/java.util.concurrent.FutureTask.run(FutureTask.java:272)
at
java.base@17.0.13/java.util.concurrent.ScheduledThreadPoolExecutor$ScheduledFutureTask.run(ScheduledThreadPoolExecutor.java:304)
at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1136)
at
java.base@17.0.13/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- Locked <1763a8a1> (a java.util.concurrent.ThreadPoolExecutor\$Worker)

"Thread-30" - Thread t@70

java.lang.Thread.State: TIMED\_WAITING

```
at java.base@17.0.13/java.lang.Thread.sleep(Native Method)
at
app//org.springframework.boot.actuate.context.ShutdownEndpoint.performShutdown(ShutdownEndpoint.java:57)
at
app//org.springframework.boot.actuate.context.ShutdownEndpoint$$Lambda$1989/0x00007fa668b1f758.run(Unknown Source)
at java.base@17.0.13/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None