

Spring Boot Actuator Web API Documentation

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3.2.6

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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=2024-05-23T09%3A20%3A29.028553633Z&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" : "2024-05-23T09:20:29.033424707Z",
    "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:

Path	Type	Description
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:

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

```


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: 878
```

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

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: 76822

{
  "activeProfiles" : [ ],
  "propertySources" : [ {
    "name" : "servletContextInitParams",
    "properties" : { }
  }, {
    "name" : "systemProperties",
    "properties" : {
      "java.specification.version" : {
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      },
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actuator-autoconfigure/build/classes/java/test:/home/runner/work/spring-boot/spring-
boot/spring-boot-project/spring-boot-actuator-
autoconfigure/build/resources/test:/home/runner/work/spring-boot/spring-boot/spring-
boot-project/spring-boot-actuator-
autoconfigure/build/classes/java/main:/home/runner/work/spring-boot/spring-
boot/spring-boot-project/spring-boot-actuator-
autoconfigure/build/resources/main:/home/runner/work/spring-boot/spring-boot/spring-
boot-project/spring-boot-tools/spring-boot-test-support/build/libs/spring-boot-test-
support-3.2.6.jar:/home/runner/work/spring-boot/spring-boot/spring-boot-
project/spring-boot-actuator/build/libs/spring-boot-actuator-
3.2.6.jar:/home/runner/work/spring-boot/spring-boot/spring-boot-project/spring-boot-
autoconfigure/build/libs/spring-boot-autoconfigure-3.2.6.jar:/home/runner/work/spring-
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3.2.6.jar:/home/runner/work/spring-boot/spring-boot/spring-boot-project/spring-
boot/build/libs/spring-boot-3.2.6.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/com.fasterxml.jackson.dataformat/jackson-dataformat-
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```

2.15.4.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-registry-wavefront/1.12.6/4dbf0f87e98c1d5974eb8bf27d62787edb1dc2da/micrometer-registry-wavefront-1.12.6.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.micrometer/micrometer-tracing-reporter-wavefront/1.2.6/58811a6ed6ec7d53933502fb6b4469d636e8f091/micrometer-tracing-reporter-wavefront-1.2.6.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.wavefront/wavefront-sdk-java/3.4.3/48a767aa5aa56b56e09c88e8be87de8707cafe77/wavefront-sdk-java-3.4.3.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/4.2.6/2e357418e1ba98e783ceba4fe83e308fb73530b4/spring-data-cassandra-4.2.6.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.datastax.oss/java-driver-query-builder/4.17.0/7bb3d00139594000f4e49a76f6afdd53789074d2/java-driver-query-builder-4.17.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.datastax.oss/java-driver-core/4.17.0/3d619c4ecb214ac091006ff06ab32198a260f977/java-driver-core-4.17.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.data/spring-data-elasticsearch/5.2.6/998adbbd9b88869e60b3c66b1bd5ced277640e27/spring-data-elasticsearch-5.2.6.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.flywaydb/flyway-core/9.22.3/76519923a547892f0108b99d1e7b06dcb4727ecd/flyway-core-9.22.3.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/3.1.6/1f9e02d94eae9f1bd960591cb5a28b536cfb0a2a/jersey-media-json-jackson-3.1.6.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/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/4.2.6/36ce051253c70e20408468ca1812b3378abe5ed0/spring-data-rest-webmvc-4.2.6.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.springframework.data/spring-data-rest-core/4.2.6/c863e8cf2f8b98ccb5dfb83df6f6a89219f7c6d1/spring-data-rest-core-4.2.6.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-

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```

-handler/4.1.110.Final/168db749c22652ee7fed1ebf7ec46ce856d75e51/netty-handler
-4.1.110.Final.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty
-transport-native-epoll/4.1.110.Final/72b74a82d22e215d1f2573c040078e0afff519af/netty
-transport-native-epoll-4.1.110.Final-linux
-x86_64.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.netty/netty-transport
-classes-epoll/4.1.110.Final/3ca1cff0bf82bfd38e89f6946e54f24cbb3424a2/netty-transport
-classes-epoll-4.1.110.Final.jar:/home/runner/.gradle/caches/modules-2/files
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-2.1/io.opentelemetry/opentelemetry-sdk
-common/1.31.0/f492528288236e097e12fc1c45963dd82c70d33c/opentelemetry-sdk-common

```

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-trace-propagators-1.31.0.jar:/home/runner/.gradle/caches/modules-2/files
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api/1.61.0/b9577481d3b994c32ef664cb33062c3d3aaf1b91/grpc-api-
1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-
stub/1.61.0/74dfd353cec372c07ac12eb7567ee4dd1c3f3534/grpc-stub-
1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-
protobuf/1.61.0/75f6c72f90c0ab8561328b51f91fca815b2ef101/grpc-protobuf-
1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-protobuf-
lite/1.61.0/9cbea0855652283cf793825d79cef7562ca812ad/grpc-protobuf-lite-
1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.api/api-
common/2.23.0/83ac994ff4ec69d77c0e5f8967f4b801c9a7c065/api-common-
2.23.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.auto.value/auto-
value-annotations/1.10.4/9679de8286eb0a151db6538ba297a8951c4a1224/auto-value-
annotations-1.10.4.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/com.google.protobuf/protobuf-
java/3.25.2/70d676d0082fa7a6b00c6073ce9b572c0d335e97/protobuf-java-
3.25.2.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.api.grpc/proto-
google-common-protos/2.31.0/4f1f70f1752278b72a695ff143004af5cd1d5a2b/proto-google-
common-protos-2.31.0.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/com.google.api/gax/2.40.0/ac9ff1b77796a0cc3ab4fd06cbdb8cdb8dc0ba50/gax-
2.40.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.auth/google-
auth-library-credentials/1.22.0/14fe31f173c9073a3cb0cb9c7ec1d8624a8620c/google-auth-
library-credentials-1.22.0.jar:/home/runner/.gradle/caches/modules-2/files-
2.1/com.google.api/gax-grpc/2.40.0/2b301f616e287c72e9faf46d3d226121e502886e/gax-grpc-

2.40.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-inprocess/1.61.0/5148902e320631d025cb3ab916e8e2177e7be85b/grpc-inprocess-1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-core/1.61.0/70acbcf51003d6cf03a09c381f243ccf8de17dc5/grpc-core-1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.android/annotations/4.1.1.4/a1678ba907bf92691d879fef34e1a187038f9259/annotations-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-util/1.61.0/6d38801d23342b8ac15d2f5de500912ca16e2d20/grpc-util-1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-alts/1.61.0/be2f143ec8e64164b941e766d10294fe88274b3c/grpc-alts-1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-lb/1.61.0/6bd1413bf941da26f0cc93359676d59948863d3c/grpc-lb-1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.protobuf/protobuf-java-util/3.25.2/315a3eaa6d476ef8bf916c4949b3a2b02f09f1e2/protobuf-java-util-3.25.2.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/1.61.0/d15f4544194a21a62e3fd246bf3f8556c179aef7/grpc-auth-1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-netty-shaded/1.61.0/b05c80ba6c3da3b3cbdc4453b822556232a59e70/grpc-netty-shaded-1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.perfmark/perfmark-api/0.27.0/f86f575a41b091786a4b027cd9c0c1d2e3fc1c01/perfmark-api-0.27.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-googleapis/1.61.0/d5fb94e3749f5b0b04ed35a2760019e58e80764e/grpc-googleapis-1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/io.grpc/grpc-xds/1.61.0/1234c3fd0bc3354277b42a2809ad63d001ef5ab9/grpc-xds-1.61.0.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/1.61.0/b956226096fcb5edc5b639cd251fa1077182f1a3/grpc-services-1.61.0.jar:/home/runner/.gradle/caches/modules-2/files-2.1/com.google.re2j/re2j/1.7/2949632c1b4acce0d7784f28e3152e9cf3c2ec7a/re2j-1.7.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.threeten/threetenbp/1.6.8/4c65b7b43f3fe31350f74cb7d0b2461e111e8dd0/threetenbp-1.6.8.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.jctools/jctools-core/2.1.2/8ec46a6a26e7c1c7e57e2590a043238ffc462144/jctools-core-2.1.2.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/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/net.minidev/accessors-smart/2.5.1/19b820261eb2e7de7d5bde11d1c06e4501dd7e5f/accessors-smart-2.5.1.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/1.3.0/152ea56b3a72f655d4fd677fc0ef2596c3dd5e6e/opentest4
j-1.3.0.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/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-
commons/9.6/f1a9e5508eff490744144565c47326c8648be309/asm-commons-
9.6.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.ow2.asm/asm-
util/9.6/f77caf84eb93786a749b2baa40865b9613e3eae/asm-util-
9.6.jar:/home/runner/.gradle/caches/modules-2/files-2.1/org.ow2.asm/asm-
analysis/9.6/9ce6c7b174bd997fc2552dff47964546bd7a5ec3/asm-analysis-
9.6.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.glassfish.hk2.external/aopalliance-
repackaged/3.0.6/e3c3f17b649c97155640616026bd32b1043b3c1d/aopalliance-repackaged-
3.0.6.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/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/17.0.11-12/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"
    }
  }
}, {
  "name" : "logCorrelation",
  "properties" : { }
} ]
}

```



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: 481

{"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"}}, {"name": "logCorrelation"}]}
```



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" : "2024-05-23T09:20:36.719Z",
            "installedRank" : 1,
            "executionTime" : 9
          } ]
        }
      }
    }
  }
}
```

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: 821

```
{
  "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" : 77851254784,
        "free" : 38521896960,
        "threshold" : 10485760,
        "path" : "/home/runner/work/spring-boot/spring-boot/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" : "f735b553-39d5-4edb-9379-023f3031eb8e"
    },
    "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" : "2024-05-23T09:20:39Z"
    }
  },
  "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
<code>artifact</code>	<code>String</code>	Artifact ID of the application, if any.
<code>group</code>	<code>String</code>	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: 1033
```

```
{
  "contentDescriptor" : {
    "providerVersion" : "6.2.5",
    "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" : "2024-05-23T09:20:43.801Z",
            "deploymentId" : "6456043719",
            "description" : "createTable tableName=customer",
            "execType" : "EXECUTED",
            "id" : "1",
            "labels" : [ ],
            "checksum" : "9:d3589feb2baad02e15540750499ba311",
            "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 (EXECUTED , FAILED , SKIPPED , RERAN , MARK_RAN).
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: 4707

.
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( ( ) \ _ _ | ' _ | ' _ | | ' _ \ _ | \ \ \ \ \
\ \ _ _ ) | | _ | | | | | | ( _ | | ) ) ) )
' | _ _ _ | . _ _ | | | _ | | \ _ _ , | / / / /
=====|_|=====|_ _ / = / _ / _ /
:: 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 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 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 0-1023/4707
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 8080 (http)
20
```

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:41919/actuator/mappings' -i -X GET \  
-H 'accept-encoding: gzip' \  
-H 'user-agent: ReactorNetty/1.1.19' \  
-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: Thu, 23 May 2024 09:20:52 GMT  
Content-Length: 5342  
  
{  
  "contexts" : {  
    "application" : {  
      "mappings" : {  
        "dispatcherServlets" : {  
          "dispatcherServlet" : [ {  
            "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" : "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" :
"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.
*.[] .details	Object	Additional implementation-specific details about the mapping. Optional.
*.[] .handler	String	Handler for the mapping.
*.[] .predicate	String	Predicate for the mapping.
*.[] .details.handlerMethod	Object	Details of the method, if any, that will handle requests to this mapping.
*.[] .details.handlerMethod.className	Varies	Fully qualified name of the class of the method.
*.[] .details.handlerMethod.name	Varies	Name of the method.
*.[] .details.handlerMethod.descriptor	Varies	Descriptor of the method as specified in the Java Language Specification.
*.[] .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.

Path	Type	Description
*. [].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.
*. [].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.

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
[].mappings	Array	Mappings of the servlet.
[].name	String	Name of the servlet.
[].className	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
[].servletNameMappings	Array	Names of the servlets to which the filter is mapped.
[].urlPatternMappings	Array	URL pattern to which the filter is mapped.
[].name	String	Name of the filter.
[].className	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.

Path	Type	Description
*. [].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
names	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>	<code>String</code>	Name of the metric
<code>description</code>	<code>String</code>	Description of the metric
<code>baseUnit</code>	<code>String</code>	Base unit of the metric
<code>measurements</code>	<code>Array</code>	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_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_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'",}
1.7235968E7
jvm_memory_committed_bytes{area="heap",id="G1 Survivor Space",} 3145728.0
jvm_memory_committed_bytes{area="heap",id="G1 Old Gen",} 1.47849216E8
jvm_memory_committed_bytes{area="nonheap",id="Metaspace",} 8.7097344E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-nmethods'",} 2555904.0
jvm_memory_committed_bytes{area="heap",id="G1 Eden Space",} 1.58334976E8
jvm_memory_committed_bytes{area="nonheap",id="Compressed Class Space",} 1.1862016E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'",}
2883584.0
# 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_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'",} 1.4488832E7
jvm_memory_used_bytes{area="heap",id="G1 Survivor Space",} 2952272.0
jvm_memory_used_bytes{area="heap",id="G1 Old Gen",} 8.2599936E7
jvm_memory_used_bytes{area="nonheap",id="Metaspace",} 8.6421736E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-nmethods'",} 1422208.0
jvm_memory_used_bytes{area="heap",id="G1 Eden Space",} 2.2020096E7
jvm_memory_used_bytes{area="nonheap",id="Compressed Class Space",} 1.155088E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'",} 2262656.0
# 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: 3105

# 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_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'"}
1.7235968E7
jvm_memory_committed_bytes{area="heap",id="G1 Survivor Space"} 3145728.0
jvm_memory_committed_bytes{area="heap",id="G1 Old Gen"} 1.47849216E8
```

```

jvm_memory_committed_bytes{area="nonheap",id="Metaspace"} 8.7031808E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-nmethods'"} 2555904.0
jvm_memory_committed_bytes{area="heap",id="G1 Eden Space"} 1.58334976E8
jvm_memory_committed_bytes{area="nonheap",id="Compressed Class Space"} 1.1862016E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'"}
2883584.0
# 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_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'"} 1.4459392E7
jvm_memory_used_bytes{area="heap",id="G1 Survivor Space"} 2952272.0
jvm_memory_used_bytes{area="heap",id="G1 Old Gen"} 8.2599936E7
jvm_memory_used_bytes{area="nonheap",id="Metaspace"} 8.6394256E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-nmethods'"} 1422208.0
jvm_memory_used_bytes{area="heap",id="G1 Eden Space"} 2.097152E7
jvm_memory_used_bytes{area="nonheap",id="Compressed Class Space"} 1.1548024E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'"} 2260992.0
# 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: 1478

# 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'",}
1.7235968E7
jvm_memory_committed_bytes{area="heap",id="G1 Survivor Space",} 3145728.0
jvm_memory_committed_bytes{area="heap",id="G1 Old Gen",} 1.47849216E8
jvm_memory_committed_bytes{area="nonheap",id="Metaspace",} 8.716288E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-nmethods'",} 2555904.0
jvm_memory_committed_bytes{area="heap",id="G1 Eden Space",} 1.58334976E8
jvm_memory_committed_bytes{area="nonheap",id="Compressed Class Space",} 1.1862016E7
jvm_memory_committed_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'",}
2883584.0
# 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'",} 1.451456E7
jvm_memory_used_bytes{area="heap",id="G1 Survivor Space",} 2952272.0
jvm_memory_used_bytes{area="heap",id="G1 Old Gen",} 8.2599936E7
jvm_memory_used_bytes{area="nonheap",id="Metaspace",} 8.6440856E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-nmethods'",} 1422208.0
jvm_memory_used_bytes{area="heap",id="G1 Eden Space",} 2.3068672E7
jvm_memory_used_bytes{area="nonheap",id="Compressed Class Space",} 1.1552616E7
jvm_memory_used_bytes{area="nonheap",id="CodeHeap 'non-profiled nmethods'",} 2281216.0
```

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>	<code>Object</code>	Cron trigger specific details.
<code>cron.expression</code>	<code>String</code>	Cron expression to use.
<code>cron.timeZone</code>	<code>String</code>	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@13f3a04e"
  } ]
}
```

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" : "b8b4bc86-cddb-4795-9237-cca2d5c83438",
    "attributeNames" : [ ],
    "creationTime" : "2024-05-22T21:20:56.879617699Z",
    "lastAccessedTime" : "2024-05-23T09:20:11.879624311Z",
    "maxInactiveInterval" : 1800,
    "expired" : false
  }, {
    "id" : "4db5efcc-99cb-4d05-a52c-b49acfb7ea9",
    "attributeNames" : [ ],
    "creationTime" : "2024-05-23T04:20:56.880593741Z",
    "lastAccessedTime" : "2024-05-23T09:20:19.880596967Z",
    "maxInactiveInterval" : 1800,
    "expired" : false
  }, {
    "id" : "6587f8ef-53d8-4865-8498-3d5bc2b78d19",
    "attributeNames" : [ ],
    "creationTime" : "2024-05-23T07:20:56.880601445Z",
    "lastAccessedTime" : "2024-05-23T09:20:44.880602337Z",
    "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-b49acfb7ea9'
-i -X GET
```

The preceding example retrieves the session with the `id` of `4db5efcc-99cb-4d05-a52c-b49acfb7ea9`. 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" : "2024-05-23T04:20:56.880593741Z",
  "lastAccessedTime" : "2024-05-23T09:20:19.880596967Z",
  "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: 888

{
  "springBootVersion" : "3.2.6",
  "timeline" : {
    "startTime" : "2024-05-23T09:20:58.635358563Z",
    "events" : [ {
      "endTime" : "2024-05-23T09:20:58.764993952Z",
      "duration" : "PT0.000006192S",
      "startTime" : "2024-05-23T09:20:58.764987760Z",
      "startupStep" : {
        "name" : "spring.beans.instantiate",
        "id" : 3,
        "tags" : [ {
          "key" : "beanName",
          "value" : "homeController"
        } ],
        "parentId" : 2
      }
    }, {
      "endTime" : "2024-05-23T09:20:58.765000674Z",
      "duration" : "PT0.00002155S",
      "startTime" : "2024-05-23T09:20:58.764979124Z",
      "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: 889
```

```
{
  "springBootVersion" : "3.2.6",
  "timeline" : {
    "startTime" : "2024-05-23T09:20:58.635358563Z",
    "events" : [ {
      "endTime" : "2024-05-23T09:20:58.734066742Z",
      "duration" : "PT0.000260804S",
      "startTime" : "2024-05-23T09:20:58.733805938Z",
      "startupStep" : {
        "name" : "spring.beans.instantiate",
        "id" : 1,
        "tags" : [ {
          "key" : "beanName",
          "value" : "homeController"
        } ],
        "parentId" : 0
      }
    }, {
      "endTime" : "2024-05-23T09:20:58.734093983Z",
      "duration" : "PT0.001323807S",
      "startTime" : "2024-05-23T09:20:58.732770176Z",
      "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.

Path	Type	Description
<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: 38915  
  
{  
  "threads" : [ {  
    "threadName" : "Test worker",  
    "threadId" : 1,  
    "blockedTime" : -1,  
    "blockedCount" : 34,  
    "waitedTime" : -1,  
    "waitedCount" : 34,  
    "lockOwnerId" : -1,  
    "daemon" : false,  
    "inNative" : false,  
    "suspended" : false,  
    "threadState" : "RUNNABLE",  
    "priority" : 5,  
    "stackTrace" : [ {  
      "moduleName" : "java.management",  
      "moduleVersion" : "17.0.11",  
      "methodName" : "dumpThreads0",  
      "fileName" : "ThreadImpl.java",  
      "lineNumber" : -2,  
      "nativeMethod" : true,  
      "className" : "sun.management.ThreadImpl"  
    }, {  
      "moduleName" : "java.management",  
      "moduleVersion" : "17.0.11",  
      "methodName" : "dumpAllThreads",  
      "fileName" : "ThreadImpl.java",  
      "lineNumber" : 528,  
      "nativeMethod" : false,  
      "className" : "sun.management.ThreadImpl"    }  
  ]  
}
```

```

}, {
  "moduleName" : "java.management",
  "moduleVersion" : "17.0.11",
  "methodName" : "dumpAllThreads",
  "fileName" : "ThreadImpl.java",
  "lineNumber" : 516,
  "nativeMethod" : false,
  "className" : "sun.management.ThreadImpl"
}, {
  "classLoaderName" : "app",
  "methodName" : "getFormattedThreadDump",
  "fileName" : "ThreadDumpEndpoint.java",
  "lineNumber" : 52,
  "nativeMethod" : false,
  "className" : "org.springframework.boot.actuate.management.ThreadDumpEndpoint"
}, {
  "classLoaderName" : "app",
  "methodName" : "threadDump",
  "fileName" : "ThreadDumpEndpoint.java",
  "lineNumber" : 43,
  "nativeMethod" : false,
  "className" : "org.springframework.boot.actuate.management.ThreadDumpEndpoint"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.11",
  "methodName" : "invoke0",
  "fileName" : "NativeMethodAccessorImpl.java",
  "lineNumber" : -2,
  "nativeMethod" : true,
  "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.11",
  "methodName" : "invoke",
  "fileName" : "NativeMethodAccessorImpl.java",
  "lineNumber" : 77,
  "nativeMethod" : false,
  "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.11",
  "methodName" : "invoke",
  "fileName" : "DelegatingMethodAccessorImpl.java",
  "lineNumber" : 43,
  "nativeMethod" : false,
  "className" : "jdk.internal.reflect.DelegatingMethodAccessorImpl"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.11",
  "methodName" : "invoke",
  "fileName" : "Method.java",

```

```

    "lineNumber" : 568,
    "nativeMethod" : false,
    "className" : "java.lang.reflect.Method"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invokeMethod",
    "fileName" : "ReflectionUtils.java",
    "lineNumber" : 281,
    "nativeMethod" : false,
    "className" : "org.springframework.util.ReflectionUtils"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invoke",
    "fileName" : "ReflectiveOperationInvoker.java",
    "lineNumber" : 74,
    "nativeMethod" : false,
    "className" :
"org.springframework.boot.actuate.endpoint.invoke.reflect.ReflectiveOperationInvoker"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invoke",
    "fileName" : "AbstractDiscoveredOperation.java",
    "lineNumber" : 60,
    "nativeMethod" : false,
    "className" :
"org.springframework.boot.actuate.endpoint.annotation.AbstractDiscoveredOperation"
  }, {
    "classLoaderName" : "app",
    "methodName" : "handle",
    "fileName" : "AbstractWebMvcEndpointHandlerMapping.java",
    "lineNumber" : 327,
    "nativeMethod" : false,
    "className" :
"org.springframework.boot.actuate.endpoint.web.servlet.AbstractWebMvcEndpointHandlerMa
pping$ServletWebOperationAdapter"
  }, {
    "classLoaderName" : "app",
    "methodName" : "handle",
    "fileName" : "AbstractWebMvcEndpointHandlerMapping.java",
    "lineNumber" : 434,
    "nativeMethod" : false,
    "className" :
"org.springframework.boot.actuate.endpoint.web.servlet.AbstractWebMvcEndpointHandlerMa
pping$OperationHandler"
  }, {
    "methodName" : "invoke",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" : "jdk.internal.reflect.GeneratedMethodAccessor63"
  }, {
    "moduleName" : "java.base",

```

```

"moduleVersion" : "17.0.11",
"methodName" : "invoke",
"fileName" : "DelegatingMethodAccessorImpl.java",
"lineNumber" : 43,
"nativeMethod" : false,
"className" : "jdk.internal.reflect.DelegatingMethodAccessorImpl"
}, {
"moduleName" : "java.base",
"moduleVersion" : "17.0.11",
"methodName" : "invoke",
"fileName" : "Method.java",
"lineNumber" : 568,
"nativeMethod" : false,
"className" : "java.lang.reflect.Method"
}, {
"classLoaderName" : "app",
"methodName" : "doInvoke",
"fileName" : "InvocableHandlerMethod.java",
"lineNumber" : 255,
"nativeMethod" : false,
"className" : "org.springframework.web.method.support.InvocableHandlerMethod"
}, {
"classLoaderName" : "app",
"methodName" : "invokeForRequest",
"fileName" : "InvocableHandlerMethod.java",
"lineNumber" : 188,
"nativeMethod" : false,
"className" : "org.springframework.web.method.support.InvocableHandlerMethod"
}, {
"classLoaderName" : "app",
"methodName" : "invokeAndHandle",
"fileName" : "ServletInvocableHandlerMethod.java",
"lineNumber" : 118,
"nativeMethod" : false,
"className" :
"org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod"
}, {
"classLoaderName" : "app",
"methodName" : "invokeHandlerMethod",
"fileName" : "RequestMappingHandlerAdapter.java",
"lineNumber" : 926,
"nativeMethod" : false,
"className" :
"org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter"
}, {
"classLoaderName" : "app",
"methodName" : "handleInternal",
"fileName" : "RequestMappingHandlerAdapter.java",
"lineNumber" : 831,
"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" : "17.0.11",
  "methodName" : "invoke0",
  "fileName" : "NativeMethodAccessorImpl.java",
  "lineNumber" : -2,
  "nativeMethod" : true,

```

```

    "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "invoke",
    "fileName" : "NativeMethodAccessorImpl.java",
    "lineNumber" : 77,
    "nativeMethod" : false,
    "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "invoke",
    "fileName" : "DelegatingMethodAccessorImpl.java",
    "lineNumber" : 43,
    "nativeMethod" : false,
    "className" : "jdk.internal.reflect.DelegatingMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "invoke",
    "fileName" : "Method.java",
    "lineNumber" : 568,
    "nativeMethod" : false,
    "className" : "java.lang.reflect.Method"
  }, {
    "classNameLoaderName" : "app",
    "methodName" : "invokeMethod",
    "fileName" : "ReflectionUtils.java",
    "lineNumber" : 728,
    "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",

```

```

    "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$$Lambda$204/0x00007f5dbc
137158"
  }, {
    "className" : "app",
    "methodName" : "lambda$ofVoidMethod$0",
    "fileName" : "InterceptingExecutableInvoker.java",
    "lineNumber" : 103,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$ReflectiveIntercepto
rCall"
  }, {
    "className" : "app",
    "methodName" : "apply",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$ReflectiveIntercepto
rCall$$Lambda$205/0x00007f5dbc137578"
  }, {
    "className" : "app",
    "methodName" : "lambda$invoke$0",
    "fileName" : "InterceptingExecutableInvoker.java",
    "lineNumber" : 93,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.execution.InterceptingExecutableInvoker"
  }, {
    "className" : "app",

```



```

    "methodName" : "apply",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$$Lambda$489/0x00007f
5dbc1e55a0"
  }, {
    "classLoaderName" : "app",
    "methodName" : "proceed",
    "fileName" : "InvocationInterceptorChain.java",
    "lineNumber" : 106,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.execution.InvocationInterceptorChain$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",

```

```

    "methodName" : "lambda$invokeTestMethod$7",
    "fileName" : "TestMethodTestDescriptor.java",
    "lineNumber" : 218,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor$$Lambda$1031/0x00007f5db
c5e68d8"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "ThrowableCollector.java",
    "lineNumber" : 73,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invokeTestMethod",
    "fileName" : "TestMethodTestDescriptor.java",
    "lineNumber" : 214,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "TestMethodTestDescriptor.java",
    "lineNumber" : 139,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "TestMethodTestDescriptor.java",
    "lineNumber" : 69,
    "nativeMethod" : false,
    "className" : "org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor"
  }, {
    "classLoaderName" : "app",
    "methodName" : "lambda$executeRecursively$6",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 151,
    "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$$Lambda$306/0x00007f5dbc1
531f8"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "ThrowableCollector.java",
    "lineNumber" : 73,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
  }, {
    "classLoaderName" : "app",
    "methodName" : "lambda$executeRecursively$8",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 141,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invoke",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$305/0x00007f5dbc1
52fd0"
  }, {
    "classLoaderName" : "app",
    "methodName" : "around",
    "fileName" : "Node.java",
    "lineNumber" : 137,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.Node"
  }, {
    "classLoaderName" : "app",
    "methodName" : "lambda$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$304/0x00007f5dbc1
52ba8"

```

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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$310/0x00007f5dbc153d10"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.11",
  "methodName" : "forEach",
  "fileName" : "ArrayList.java",
  "lineNumber" : 1511,
  "nativeMethod" : false,
  "className" : "java.util.ArrayList"
}, {
  "className" : "app",
  "methodName" : "invokeAll",
  "fileName" : "SameThreadHierarchicalTestExecutorService.java",
  "lineNumber" : 41,
  "nativeMethod" : false,
  "className" :
"org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorService"
}, {
  "className" : "app",
  "methodName" : "lambda$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$$Lambda$306/0x00007f5dbc1
531f8"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "ThrowableCollector.java",
    "lineNumber" : 73,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
  }, {
    "classLoaderName" : "app",
    "methodName" : "lambda$executeRecursively$8",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 141,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "invoke",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$305/0x00007f5dbc1
52fd0"
  }, {
    "classLoaderName" : "app",
    "methodName" : "around",
    "fileName" : "Node.java",
    "lineNumber" : 137,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.Node"
  }, {
    "classLoaderName" : "app",
    "methodName" : "lambda$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$$Lambda$304/0x00007f5dbc1
52ba8"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "ThrowableCollector.java",
    "lineNumber" : 73,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
  }, {
    "classLoaderName" : "app",
    "methodName" : "executeRecursively",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 138,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "execute",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 95,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "classLoaderName" : "app",
    "methodName" : "accept",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorServ
ice$$Lambda$310/0x00007f5dbc153d10"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "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" : "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$$Lambda$306/0x00007f5dbc1531f8"
  }, {
    "className" : "app",
    "methodName" : "execute",
    "fileName" : "ThrowableCollector.java",
    "lineNumber" : 73,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.ThrowableCollector"
  }, {
    "className" : "app",
    "methodName" : "lambda$executeRecursively$8",
    "fileName" : "NodeTestTask.java",
    "lineNumber" : 141,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.NodeTestTask"
  }, {
    "className" : "app",
    "methodName" : "invoke",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$305/0x00007f5dbc152fd0"
  }, {
    "className" : "app",
    "methodName" : "around",
    "fileName" : "Node.java",
    "lineNumber" : 137,
    "nativeMethod" : false,
    "className" : "org.junit.platform.engine.support.hierarchical.Node"
  }, {
    "className" : "app",
    "methodName" : "lambda$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$304/0x00007f5dbc1
52ba8"
  }, {
    "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"
  }, {
    "className" : "app",
    "methodName" : "execute",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 198,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "className" : "app",
    "methodName" : "execute",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 169,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "className" : "app",
    "methodName" : "execute",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 93,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "className" : "app",
    "methodName" : "lambda$execute$0",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 58,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "className" : "app",
    "methodName" : "accept",
    "lineNumber" : -1,
    "nativeMethod" : false,
    "className" :
"org.junit.platform.launcher.core.EngineExecutionOrchestrator$$Lambda$259/0x00007f5dbc
1406b8"
  }, {
    "className" : "app",
    "methodName" : "withInterceptedStreams",
    "fileName" : "EngineExecutionOrchestrator.java",
    "lineNumber" : 141,
    "nativeMethod" : false,
    "className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
  }, {
    "className" : "app",

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"methodName" : "execute",
"fileName" : "EngineExecutionOrchestrator.java",
"lineNumber" : 57,
"nativeMethod" : false,
"className" : "org.junit.platform.launcher.core.EngineExecutionOrchestrator"
}, {
"classNameName" : "app",
"methodName" : "execute",
"fileName" : "DefaultLauncher.java",
"lineNumber" : 103,
"nativeMethod" : false,
"className" : "org.junit.platform.launcher.core.DefaultLauncher"
}, {
"classNameName" : "app",
"methodName" : "execute",
"fileName" : "DefaultLauncher.java",
"lineNumber" : 85,
"nativeMethod" : false,
"className" : "org.junit.platform.launcher.core.DefaultLauncher"
}, {
"classNameName" : "app",
"methodName" : "execute",
"fileName" : "DelegatingLauncher.java",
"lineNumber" : 47,
"nativeMethod" : false,
"className" : "org.junit.platform.launcher.core.DelegatingLauncher"
}, {
"classNameName" : "app",
"methodName" : "execute",
"fileName" : "SessionPerRequestLauncher.java",
"lineNumber" : 63,
"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"
}, {
"methodName" : "stop",

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    "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" : "17.0.11",
    "methodName" : "invoke0",
    "fileName" : "NativeMethodAccessorImpl.java",
    "lineNumber" : -2,
    "nativeMethod" : true,
    "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "invoke",
    "fileName" : "NativeMethodAccessorImpl.java",
    "lineNumber" : 77,
    "nativeMethod" : false,
    "className" : "jdk.internal.reflect.NativeMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "invoke",
    "fileName" : "DelegatingMethodAccessorImpl.java",
    "lineNumber" : 43,
    "nativeMethod" : false,
    "className" : "jdk.internal.reflect.DelegatingMethodAccessorImpl"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "invoke",
    "fileName" : "Method.java",
    "lineNumber" : 568,
    "nativeMethod" : false,
    "className" : "java.lang.reflect.Method"
  }, {
    "methodName" : "dispatch",
    "fileName" : "ReflectionDispatch.java",
    "lineNumber" : 36,
    "nativeMethod" : false,
    "className" : "org.gradle.internal.dispatch.ReflectionDispatch"
  }, {
    "methodName" : "dispatch",

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"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,

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    "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"
  }, {
    "className" : "app",
    "methodName" : "run",
    "fileName" : "GradleWorkerMain.java",
    "lineNumber" : 69,
    "nativeMethod" : false,
    "className" : "worker.org.gradle.process.internal.worker.GradleWorkerMain"
  }, {
    "className" : "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" : 7,
  "waitedTime" : -1,
  "waitedCount" : 0,
  "lockOwnerId" : -1,
  "daemon" : true,
  "inNative" : false,
  "suspended" : false,
  "threadState" : "RUNNABLE",
  "priority" : 10,
  "stackTrace" : [ {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "waitForReferencePendingList",
    "fileName" : "Reference.java",

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    "lineNumber" : -2,
    "nativeMethod" : true,
    "className" : "java.lang.ref.Reference"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "processPendingReferences",
    "fileName" : "Reference.java",
    "lineNumber" : 253,
    "nativeMethod" : false,
    "className" : "java.lang.ref.Reference"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "run",
    "fileName" : "Reference.java",
    "lineNumber" : 215,
    "nativeMethod" : false,
    "className" : "java.lang.ref.Reference$ReferenceHandler"
  } ],
  "lockedMonitors" : [ ],
  "lockedSynchronizers" : [ ]
}, {
  "threadName" : "Finalizer",
  "threadId" : 3,
  "blockedTime" : -1,
  "blockedCount" : 0,
  "waitedTime" : -1,
  "waitedCount" : 1,
  "lockName" : "java.lang.ref.ReferenceQueue$Lock@b8b6de6",
  "lockOwnerId" : -1,
  "daemon" : true,
  "inNative" : false,
  "suspended" : false,
  "threadState" : "WAITING",
  "priority" : 8,
  "stackTrace" : [ {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "wait",
    "lineNumber" : -2,
    "nativeMethod" : true,
    "className" : "java.lang.Object"
  }, {
    "moduleName" : "java.base",
    "moduleVersion" : "17.0.11",
    "methodName" : "remove",
    "fileName" : "ReferenceQueue.java",
    "lineNumber" : 155,
    "nativeMethod" : false,
    "className" : "java.lang.ref.ReferenceQueue"
  }

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}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.11",
  "methodName" : "remove",
  "fileName" : "ReferenceQueue.java",
  "lineNumber" : 176,
  "nativeMethod" : false,
  "className" : "java.lang.ref.ReferenceQueue"
}, {
  "moduleName" : "java.base",
  "moduleVersion" : "17.0.11",
  "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" : 193687014
}
} ]
}

```

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 (NEW , RUNNABLE , BLOCKED , WAITING , TIMED_WAITING , TERMINATED).
<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/threads` 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: 52716  
  
2024-05-23 09:20:59  
Full thread dump OpenJDK 64-Bit Server VM (17.0.11+12-LTS mixed mode, sharing):  
  
"Test worker" - Thread t@1  
  java.lang.Thread.State: RUNNABLE  
    at java.management@17.0.11/sun.management.ThreadImpl.dumpThreads0(Native Method)  
    at  
java.management@17.0.11/sun.management.ThreadImpl.dumpAllThreads(ThreadImpl.java:528)  
  at  
java.management@17.0.11/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@17.0.11/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native  
Method)  
    at  
java.base@17.0.11/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAcc  
essorImpl.java:77)  
    at  
java.base@17.0.11/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingM  
ethodAccessorImpl.java:43)  
    at java.base@17.0.11/java.lang.reflect.Method.invoke(Method.java:568)  
    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@17.0.11/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.base@17.0.11/java.lang.reflect.Method.invoke(Method.java:568)
    at
app//org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(InvocableHandlerMethod.java:255)
    at
app//org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:188)
    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:926)
    at
app//org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.handleInternal(RequestMappingHandlerAdapter.java:831)
    at
app//org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(AbstractHandlerMethodAdapter.java:87)
    at
app//org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:1089)
    at
app//org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:979)
    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@17.0.11/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native
Method)
    at
java.base@17.0.11/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAcc
essorImpl.java:77)
    at
java.base@17.0.11/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingM
ethodAccessorImpl.java:43)
    at java.base@17.0.11/java.lang.reflect.Method.invoke(Method.java:568)
    at
app//org.junit.platform.commons.util.ReflectionUtils.invokeMethod(ReflectionUtils.java
:728)
    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$$Lambda$204/0x00007f
5dbc137158.apply(Unknown Source)
    at
app//org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$ReflectiveInterc
eptorCall.lambda$ofVoidMethod$0(InterceptingExecutableInvoker.java:103)
    at
app//org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$ReflectiveInterc
eptorCall$$Lambda$205/0x00007f5dbc137578.apply(Unknown Source)
    at
app//org.junit.jupiter.engine.execution.InterceptingExecutableInvoker.lambda$invoke$0(
InterceptingExecutableInvoker.java:93)
    at
app//org.junit.jupiter.engine.execution.InterceptingExecutableInvoker$$Lambda$489/0x00
007f5dbc1e55a0.apply(Unknown Source)
    at
app//org.junit.jupiter.engine.execution.InvocationInterceptorChain$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:218)
    at
app//org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor$$Lambda$1031/0x00007
f5dbc5e68d8.execute(Unknown Source)
    at
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.invokeTestMethod(Tes
tMethodTestDescriptor.java:214)
    at
app//org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.execute(TestMethodTe
stDescriptor.java:139)
    at
app//org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.execute(TestMethodTe
stDescriptor.java:69)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$6(NodeTestTask.java:151)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$306/0x00007f5
dbc1531f8.execute(Unknown Source)
    at
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$8(NodeTestTask.java:141)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$305/0x00007f5
dbc152fd0.invoke(Unknown Source)
    at app//org.junit.platform.engine.support.hierarchical.Node.around(Node.java:137)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$9(NodeTestTask.java:139)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$304/0x00007f5
dbc152ba8.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$$Lambda$310/0x000007f5dbc153d10.accept(Unknown Source)
    at java.base@17.0.11/java.util.ArrayList.forEach(ArrayList.java:1511)
    at
app//org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecuto
rService.invokeAll(SameThreadHierarchicalTestExecutorService.java:41)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$6(NodeTestTask.java:155)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$306/0x000007f5
dbc1531f8.execute(Unknown Source)
    at
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$8(NodeTestTask.java:141)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$305/0x000007f5
dbc152fd0.invoke(Unknown Source)
    at app//org.junit.platform.engine.support.hierarchical.Node.around(Node.java:137)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$9(NodeTestTask.java:139)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$304/0x000007f5
dbc152ba8.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$310/0x000007f5dbc153d10.accept(Unknown Source)
    at java.base@17.0.11/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$$Lambda$306/0x00007f5
dbc1531f8.execute(Unknown Source)
    at
app//org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(Throwab
leCollector.java:73)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$8(NodeTestTask.java:141)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$305/0x00007f5
dbc152fd0.invoke(Unknown Source)
    at app//org.junit.platform.engine.support.hierarchical.Node.around(Node.java:137)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursi
vely$9(NodeTestTask.java:139)
    at
app//org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$304/0x00007f5
dbc152ba8.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:198)
    at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.execute(EngineExecu
tionOrchestrator.java:169)
    at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.execute(EngineExecu
tionOrchestrator.java:93)
```

```

    at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.lambda$execute$0(Eng
ineExecutionOrchestrator.java:58)
    at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator$$Lambda$259/0x00007f
5dbc1406b8.accept(Unknown Source)
    at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.withInterceptedStrea
ms(EngineExecutionOrchestrator.java:141)
    at
app//org.junit.platform.launcher.core.EngineExecutionOrchestrator.execute(EngineExecut
ionOrchestrator.java:57)
    at
app//org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:103
)
    at
app//org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:85)
    at
app//org.junit.platform.launcher.core.DelegatingLauncher.execute(DelegatingLauncher.ja
va:47)
    at
app//org.junit.platform.launcher.core.SessionPerRequestLauncher.execute(SessionPerRequ
estLauncher.java:63)
    at
org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor$Col
lectAllTestClassesExecutor.processAllTestClasses(JUnitPlatformTestClassProcessor.java
:99)
    at
org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor$Col
lectAllTestClassesExecutor.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@17.0.11/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native
Method)
    at
java.base@17.0.11/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAcc
essorImpl.java:77)
    at
java.base@17.0.11/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingM
ethodAccessorImpl.java:43)
    at java.base@17.0.11/java.lang.reflect.Method.invoke(Method.java:568)
    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@17.0.11/java.lang.ref.Reference.waitForReferencePendingList(Native
Method)

at

java.base@17.0.11/java.lang.ref.Reference.processPendingReferences(Reference.java:253)

at

java.base@17.0.11/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@17.0.11/java.lang.Object.wait(Native Method)

- waiting on <b8b6de6> (a java.lang.ref.ReferenceQueue\$Lock)

at java.base@17.0.11/java.lang.ref.ReferenceQueue.remove(ReferenceQueue.java:155)

at java.base@17.0.11/java.lang.ref.ReferenceQueue.remove(ReferenceQueue.java:176)

```
at
java.base@17.0.11/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@17.0.11/java.lang.Object.wait(Native Method)
- waiting on <5341eab4> (a java.lang.ref.ReferenceQueue$Lock)
at java.base@17.0.11/java.lang.ref.ReferenceQueue.remove(ReferenceQueue.java:155)
at java.base@17.0.11/jdk.internal.ref.CleanerImpl.run(CleanerImpl.java:140)
at java.base@17.0.11/java.lang.Thread.run(Thread.java:840)
at
java.base@17.0.11/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
```

```
"/127.0.0.1:38098 to /127.0.0.1:37077 workers" - Thread t@14
java.lang.Thread.State: WAITING
at java.base@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
- parking to wait for <182d1967> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1625)
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(ExecutorPolicy.java:64)
    at
org.gradle.internal.concurrent.ManagedExecutorImpl$1.run(ManagedExecutorImpl.java:49)
    at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1136)
    at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
    at java.base@17.0.11/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- Locked <1329eff> (a java.util.concurrent.ThreadPoolExecutor\$Worker)

"/127.0.0.1:38098 to /127.0.0.1:37077 workers Thread 2" - Thread t@15

java.lang.Thread.State: WAITING

at java.base@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)

- parking to wait for <494572fd> (a

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

at

java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)

at

java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionNode.block(AbstractQueuedSynchronizer.java:506)

at

java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)

at

java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)

at

java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject.await(AbstractQueuedSynchronizer.java:1625)

at

org.gradle.internal.remote.internal.hub.queue.EndPointQueue.take(EndPointQueue.java:49)

)

at

org.gradle.internal.remote.internal.hub.MessageHub\$ConnectionDispatch.run(MessageHub.java:322)

at

org.gradle.internal.concurrent.ExecutorPolicy\$CatchAndRecordFailures.onExecute(ExecutorPolicy.java:64)

at

org.gradle.internal.concurrent.ManagedExecutorImpl\$1.run(ManagedExecutorImpl.java:49)

at

```

java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor
.java:1136)
    at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecuto
r.java:635)
    at java.base@17.0.11/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:
- Locked <34f5090e> (a java.util.concurrent.ThreadPoolExecutor$Worker)

"/127.0.0.1:38098 to /127.0.0.1:37077 workers Thread 3" - Thread t@16
  java.lang.Thread.State: RUNNABLE
    at java.base@17.0.11/sun.nio.ch.EPoll.wait(Native Method)
    at
java.base@17.0.11/sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:118)
    at
java.base@17.0.11/sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:129)
    - locked <19f1c26e> (a sun.nio.ch.Util$2)
    - locked <35af404f> (a sun.nio.ch.EPollSelectorImpl)
    at java.base@17.0.11/sun.nio.ch.SelectorImpl.select(SelectorImpl.java:146)
    at
org.gradle.internal.remote.internal.inet.SocketConnection$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$1.run(ManagedExecutorImpl.java:49)
    at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecuto
r.java:1136)
    at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecuto

```

```

r.java:635)
  at java.base@17.0.11/java.lang.Thread.run(Thread.java:840)

Locked ownable synchronizers:
  - Locked <1a4013> (a java.util.concurrent.ThreadPoolExecutor$Worker)

"process reaper" - Thread t@20
  java.lang.Thread.State: TIMED_WAITING
    at java.base@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <571f1e9d> (a
java.util.concurrent.SynchronousQueue$TransferStack)
  at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:252)
  at
java.base@17.0.11/java.util.concurrent.SynchronousQueue$TransferStack.transfer(SynchronousQueue.java:401)
  at
java.base@17.0.11/java.util.concurrent.SynchronousQueue.poll(SynchronousQueue.java:903)
  at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1061)
  at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1122)
  at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
    at java.base@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <406a54a2> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
  at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:252)
  at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(AbstractQueuedSynchronizer.java:1674)

```

```
at
java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:1182)
at
java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:899)
at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1062)
at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1122)
at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
at java.base@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
- parking to wait for <49a777ee> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:252)
at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(AbstractQueuedSynchronizer.java:1674)
at
java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:1182)
at
java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:899)
at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1062)
at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1122)
at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
at java.base@17.0.11/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@17.0.11/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:
- None

```
"server" - Thread t@42
  java.lang.Thread.State: WAITING
    at java.base@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <6c5ebad> (a java.util.concurrent.CountDownLatch$Sync)
    at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:211)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer.acquire(Abstra
ctQueuedSynchronizer.java:715)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer.acquireSharedI
nterruptibly(AbstractQueuedSynchronizer.java:1047)
    at
java.base@17.0.11/java.util.concurrent.CountDownLatch.await(CountDownLatch.java:230)
    at
app//reactor.core.publisher.BlockingSingleSubscriber.blockingGet(BlockingSingleSubscri
ber.java:91)
    at app//reactor.core.publisher.Mono.block(Mono.java:1779)
    at
app//org.springframework.boot.web.embedded.netty.NettyWebServer$1.run(NettyWebServer.j
ava:228)
```

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@17.0.11/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@17.0.11/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@17.0.11/java.lang.Thread.run(Thread.java:840)
```

```
Locked ownable synchronizers:
```

```
- None
```

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

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

```
at java.base@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
```

```
- parking to wait for <2901e61e> (a
```

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

```
at
```

```
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
```

```
at
```

```
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.  
block(AbstractQueuedSynchronizer.java:506)
```

```
at
```

```
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3  
465)
```

```
at
```

```
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343  
6)
```

```
at
```

```
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec  
t.await(AbstractQueuedSynchronizer.java:1625)
```

```
at
```

```
java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.ta  
ke(ScheduledThreadPoolExecutor.java:1170)
```

```
at
```

```
java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.ta  
ke(ScheduledThreadPoolExecutor.java:899)
```

```
at
```

```
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.j  
ava:1062)
```

```
at
```

```
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecuto  
.java:1122)
```

```
at
```

```
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecuto  
r.java:635)
```

```
at java.base@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
```

```
- parking to wait for <3bdc78d8> (a
```

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

```
    at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:252)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(AbstractQueuedSynchronizer.java:1674)
    at
java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:1182)
    at
java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:899)
    at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1062)
    at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1122)
    at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63)
    at java.base@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <3bdc78d8> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQueuedSynchronizer.java:1625)
    at
java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThreadPoolExecutor.java:1177)
```

```

    at
    java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.ta
    ke(ScheduledThreadPoolExecutor.java:899)
    at
    java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecuto
    r.java:1062)
    at
    java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecuto
    r.java:1122)
    at
    java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecuto
    r.java:635)
    at
    app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63
    )
    at java.base@17.0.11/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@17.0.11/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:217)

```

Locked ownable synchronizers:

- None

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

```

    java.lang.Thread.State: WAITING
    at java.base@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <49b6704a> (a
    java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
    java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
    java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
    block(AbstractQueuedSynchronizer.java:506)
    at
    java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
    465)
    at
    java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
    6)
    at
    java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
    t.await(AbstractQueuedSynchronizer.java:1625)
    at

```

```
java.base@17.0.11/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@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)

- parking to wait for <49b6704a> (a

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

at

java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)

at

java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionNode.block(AbstractQueuedSynchronizer.java:506)

at

java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)

at

java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)

at

java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer\$ConditionObject.await(AbstractQueuedSynchronizer.java:1625)

at

java.base@17.0.11/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@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <49b6704a> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQueuedSynchronizer.java:1625)
    at
java.base@17.0.11/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:435)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1114)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1175)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:659)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63)
)
    at java.base@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
      - parking to wait for <49b6704a> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1625)
    at
java.base@17.0.11/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.ja
va:435)
      at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
      at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
      at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java
:1114)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.ja
va:1175)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.j
ava:659)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63
)
      at java.base@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
      - parking to wait for <49b6704a> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.

```

```

block(AbstractQueuedSynchronizer.java:506)
  at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)
  at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)
  at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQueuedSynchronizer.java:1625)
  at
java.base@17.0.11/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:435)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
    at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1114)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1175)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:659)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63)
    at java.base@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <49b6704a> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
  at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
  at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQueuedSynchronizer.java:1625)

```

```

    at
java.base@17.0.11/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@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
    - parking to wait for <49b6704a> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3465)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:3436)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQueuedSynchronizer.java:1625)
    at
java.base@17.0.11/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@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
  - parking to wait for <49b6704a> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
  at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
  at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
  at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
  at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
  at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1625)
  at
java.base@17.0.11/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.ja
va:435)
  at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
  at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java
:1114)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.ja
va:1175)
  at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.j
ava:659)
  at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63
)
  at java.base@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
      - parking to wait for <49b6704a> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1625)
    at
java.base@17.0.11/java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.ja
va:435)
      at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:117)
      at app//org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
      at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java
:1114)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.ja
va:1175)
    at
app//org.apache.tomcat.util.threads.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.j
ava:659)
    at
app//org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:63
)
      at java.base@17.0.11/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@17.0.11/jdk.internal.misc.Unsafe.park(Native Method)
      - parking to wait for <49b6704a> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at
java.base@17.0.11/java.util.concurrent.locks.LockSupport.park(LockSupport.java:341)
    at
```

```

java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionNode.
block(AbstractQueuedSynchronizer.java:506)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.unmanagedBlock(ForkJoinPool.java:3
465)
    at
java.base@17.0.11/java.util.concurrent.ForkJoinPool.managedBlock(ForkJoinPool.java:343
6)
    at
java.base@17.0.11/java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObjec
t.await(AbstractQueuedSynchronizer.java:1625)
    at
java.base@17.0.11/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@17.0.11/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@17.0.11/sun.nio.ch.EPoll.wait(Native Method)
    at
java.base@17.0.11/sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:118)
    at
java.base@17.0.11/sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:129)
    - locked <60877252> (a sun.nio.ch.Util$2)
    - locked <4610594a> (a sun.nio.ch.EPollSelectorImpl)
    at java.base@17.0.11/sun.nio.ch.SelectorImpl.select(SelectorImpl.java:141)
    at app//org.apache.tomcat.util.net.NioEndpoint$Poller.run(NioEndpoint.java:755)
    at java.base@17.0.11/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@17.0.11/sun.nio.ch.Net.accept(Native Method)
at
java.base@17.0.11/sun.nio.ch.ServerSocketChannelImpl.implAccept(ServerSocketChannelImpl.java:425)
at
java.base@17.0.11/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@17.0.11/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- Locked <1e52e3e8> (a java.util.concurrent.locks.ReentrantLock\$NonfairSync)

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

java.lang.Thread.State: RUNNABLE

```
at
app//org.springframework.scheduling.concurrent.ReschedulingRunnable.run(ReschedulingRunnable.java:101)
- locked <641ce448> (a java.lang.Object)
at
java.base@17.0.11/java.util.concurrent.Executors$RunnableAdapter.call(Executors.java:539)
```

- locked <641ce448> (a java.lang.Object)

```
at
java.base@17.0.11/java.util.concurrent.FutureTask.run(FutureTask.java:264)
at
java.base@17.0.11/java.util.concurrent.ScheduledThreadPoolExecutor$ScheduledFutureTask.run(ScheduledThreadPoolExecutor.java:304)
```

```
at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1136)
at
java.base@17.0.11/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635)
```

- Locked <1b40c635> (a java.util.concurrent.ThreadPoolExecutor\$Worker)

```
at
at java.base@17.0.11/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- Locked <1b40c635> (a java.util.concurrent.ThreadPoolExecutor\$Worker)

"Thread-33" - Thread t@73

java.lang.Thread.State: TIMED_WAITING

```
at java.base@17.0.11/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$2141/0x00007f5dbcb84000.run(Unknown Source)
```

- Locked <1b40c635> (a java.util.concurrent.ThreadPoolExecutor\$Worker)

```
at java.base@17.0.11/java.lang.Thread.run(Thread.java:840)
```

Locked ownable synchronizers:

- None