

Spring Professional Exam Tutorial v5.0

Question 26

Question 26 - What are the actuator endpoints that are provided out of the box?

ID	Description	Enabled by default	Default Exposure via JMX	Default Exposure via Web
auditevents	Exposes audit events information for the current application.	Yes, but requires an AuditEventRepository bean	Yes	No
beans	Displays a complete list of all the Spring beans in your application.	Yes	Yes	No
caches	Exposes available caches.	Yes	Yes	No
conditions	Shows the conditions that were evaluated on configuration and auto-configuration classes and the reasons why they did or did not match.	Yes	Yes	No
configprops	Displays a collated list of all @ConfigurationProperties.	Yes	Yes	No
env	Exposes properties from Spring's ConfigurableEnvironment.	Yes	Yes	No
flyway	Shows any Flyway database migrations that have been applied.	Yes	Yes	No
health	Shows application health information.	Yes	Yes	Yes
httptrace	Displays HTTP trace information (by default, the last 100 HTTP request-response exchanges).	Yes, but requires an HttpTraceRepository bean	Yes	No

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info	Displays arbitrary application info.	Yes	Yes	Yes
integrationgraph	Shows the Spring Integration graph.	Yes	Yes	No
loggers	Shows and modifies the configuration of loggers in the application.	Yes	Yes	No
liquibase	Shows any Liquibase database migrations that have been applied.	Yes	Yes	No
metrics	Shows 'metrics' information for the current application.	Yes	Yes	No
mappings	Displays a collated list of all @RequestMapping paths.	Yes	Yes	No
scheduledtasks	Displays the scheduled tasks in your application.	Yes	Yes	No
sessions	Allows retrieval and deletion of user sessions from a Spring Session-backed session store. Not available when using Spring Session's support for reactive web applications.	Yes	Yes	No
shutdown	Lets the application be gracefully shutdown.	No	Yes	No
threaddump	Performs a thread dump.	Yes	Yes	No

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ID	Description	Enabled by default	Default Exposure via JMX	Default Exposure via Web
prometheus	Exposes metrics in a format that can be scraped by a Prometheus server.	Only for Web Application	N/A	No
heapdump	Returns an hprof heap dump file.	Only for Web Application	N/A	No
jolokia	Exposes JMX beans over HTTP (when Jolokia is on the classpath, not available for WebFlux).	Only for Web Application	N/A	No
logfile	Returns the contents of the logfile (if logging.file.name or logging.file.path properties have been set). Supports the use of the HTTP Range header to retrieve part of the log file's content.	Only for Web Application	N/A	No

Question 26 - What are the actuator endpoints that are provided out of the box?

You can enable or disable Actuator Endpoints with usage of property:

```
management.endpoint.${ENDPOINT_NAME}.enabled=true
```

For example:

- ▶ `management.endpoint.shutdown.enabled=true`
- ▶ `management.endpoint.beans.enabled=false`
- ▶ `management.endpoint.info.enabled=false`

You can also disable 'Enabled by default' behavior with usage of property:

```
management.endpoints.enabled-by-default=false
```

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You can change endpoints exposure with usage of properties:

- ▶ `management.endpoints.jmx.exposure.exclude`
- ▶ `management.endpoints.jmx.exposure.include`
- ▶ `management.endpoints.web.exposure.exclude`
- ▶ `management.endpoints.web.exposure.include`

For example:

```
management.endpoints.web.exposure.include=info, health, env, beans
```

You can also expose all endpoints with usage of wildcard, for example:

```
management.endpoints.web.exposure.include=*
```

Question 26 - What are the actuator endpoints that are provided out of the box?

You can enable navigation through Actuator Endpoints, by usage of HATEOAS.

To enable this navigation, all you have to do is to add dependency to your project:

```
<dependency>  
  <groupId>org.springframework.boot</groupId>  
  <artifactId>spring-boot-starter-hateoas</artifactId>  
</dependency>
```

After having this dependency, visiting main Actuator page:

<http://localhost:8080/actuator>

Will give you `_links` element in response, that can be used for navigation.

