**Actuators:**

* Before the spring framework, if we had to introduce this type of monitoring functionality in our applications then we had to manually develop all those components and that too was very specific to our need. But with spring boot we have Actuator module which makes it very easy.
* all the management and monitoring related information is easily available with Actuators.
* Spring boot’s module Actuator allows you to monitor and manage application usages in production environment, without coding and configuration for any of them. These monitoring and management information is exposed via REST like endpoint URLs.
* By default, only /health and /info are exposed via Web APIs. Use **management.endpoints.web.exposure.include=\*** to expose all endpoints through the Web APIs.

|  |
| --- |
| **application.properties** |
| management.endpoints.web.exposure.include=\*    # To expose only selected endpoints  **#management.endpoints.jmx.exposure.include=health,info,env,beans** |

Actuattos Urls:

|  |  |
| --- | --- |
| /mappings | Displays a collated list of all @RequestMapping paths. |
| /env | Returns list of properties in current environment |
| /health | Returns application health information. |
| /caches | It exposes available caches. |
| /loggers | The configuration of loggers in the application.. |
| /scheduledtasks | Displays the scheduled tasks in the application. |

|  |  |
| --- | --- |
| /metrics | It shows several useful metrics information like JVM memory used, system CPU usage, open files, and much more. |

* By default, spring security is enabled for all actuator endpoints if it available in the classpath.
* By default, all endpoints (except /shutdown) are enabled. To disable all endpoints, by default, use property:

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

* To use the only required endpoints which the application need to expose using the pattern management.endpoint.<id>.enabled.

Ex: management.endpoint.health.enabled=true

management.endpoint.beans.enabled=true

management.endpoint.mappings.enabled=true

* To disable Actuators endpoint security we use **management.security.enabled=false**

entry to the **application.properties** file to disable actuator security.

* **http://localhost:8080/actuator/beans:** This will give all the spring beans loaded in the context.
* **http://localhost:8080/actuator/env:** This will give all the environmental configuration about the server.
* **http://localhost:8080/actuator/threaddump:** This will give the current server thread dump