



Spring Boot Actuators



Actuator

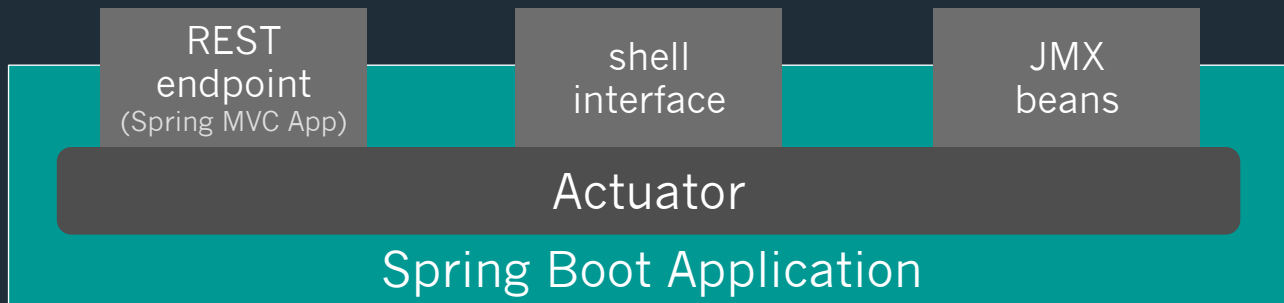
(Monitoring & Management Endpoints)

Offers production-ready features such as monitoring and metrics to improve operator efficiency

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

Actuator Services are exposed through

- HTTP endpoints
- shell interface
- JMX Beans



Types of Actuator Endpoints

Configuration

- `/beans`
- `/autoconfig`
- `/env`
- `/configprops`
- `/controller`

Metrics

- `/metrics`
- `/trace`
- `/dump`

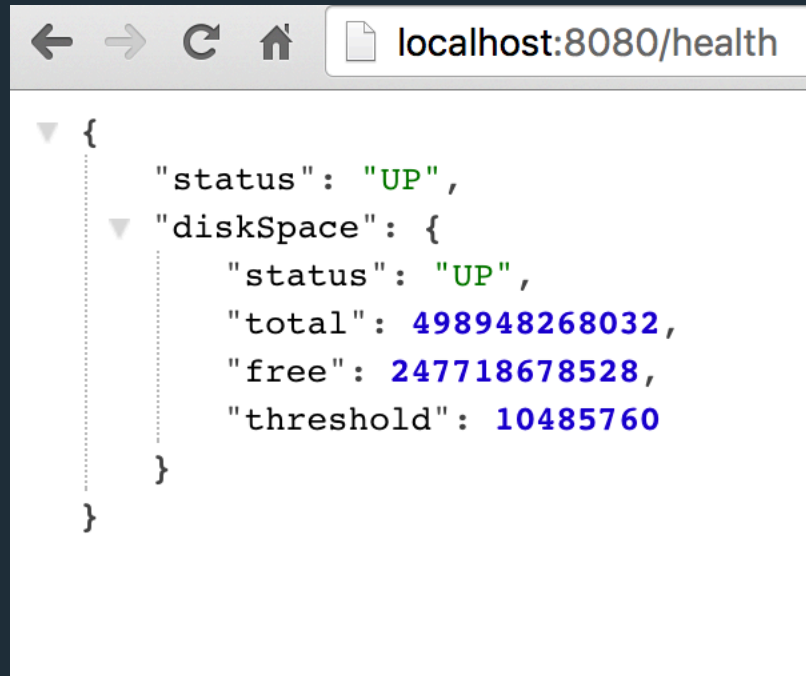
Miscellaneous

- `/shutdown`
- `/info`

/health

Reports health metrics for the application

- Each check returns a Health object
 - status
 - UP
 - DOWN
 - UNKNOWN
 - OUT_OF_SERVICE
- Plugin your own health definitions

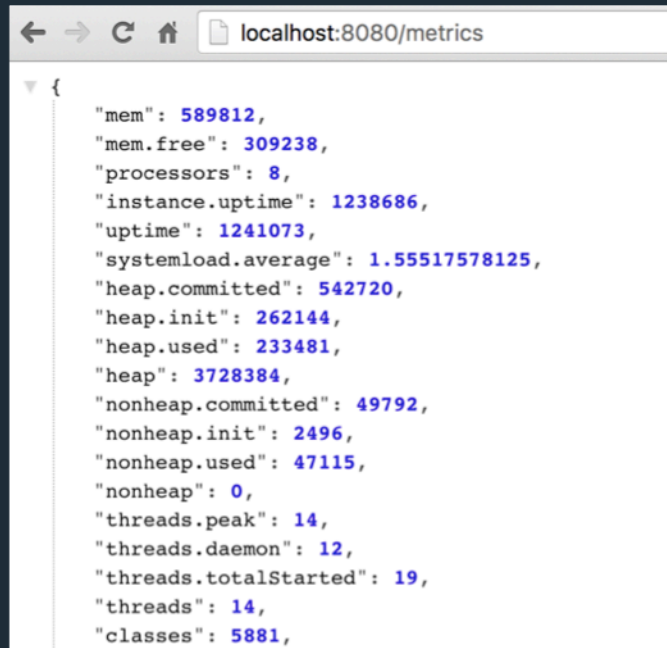
A screenshot of a web browser window. The address bar shows 'localhost:8080/health'. The page content displays a JSON response for the health check. The JSON is partially expanded, showing the 'status' as 'UP' and 'diskSpace' details including 'total', 'free', and 'threshold' values.

```
{
  "status": "UP",
  "diskSpace": {
    "status": "UP",
    "total": 498948268032,
    "free": 247718678528,
    "threshold": 10485760
  }
}
```

/metrics

Reports application metrics such as

- Memory usage and
- HTTP request counters



```
{
  "mem": 589812,
  "mem.free": 309238,
  "processors": 8,
  "instance.uptime": 1238686,
  "uptime": 1241073,
  "systemload.average": 1.55517578125,
  "heap.committed": 542720,
  "heap.init": 262144,
  "heap.used": 233481,
  "heap": 3728384,
  "nonheap.committed": 49792,
  "nonheap.init": 2496,
  "nonheap.used": 47115,
  "nonheap": 0,
  "threads.peak": 14,
  "threads.daemon": 12,
  "threads.totalStarted": 19,
  "threads": 14,
  "classes": 5881,
```



Thank You

