

# Spring Professional Exam Tutorial v5.0

## Question 37

## Question 37 - Why do you want to leverage 3rd-party external monitoring system?

It is a good idea to use external monitoring system, because this way you can use monitoring functionalities without having to spend time coding them.

External monitoring system usually provides:

- ▶ Durable persistent storage
- ▶ Tested way of ingesting massive amount of data
- ▶ A way to query for data
- ▶ A way to perform data visualization
- ▶ Configurable Dashboards
- ▶ Configurable alerting

Spring Actuator uses Micrometer Application Metrics Facade which integrates with number of external monitoring systems. Provided dependency management and auto-configuration makes it easy to integrate Micrometer into your project.

## Question 37 - Why do you want to leverage 3rd-party external monitoring system?

Spring Boot supports following monitoring systems:

- ▶ AppOptics
- ▶ Atlas
- ▶ Datadog
- ▶ Dynatrace
- ▶ Elastic
- ▶ Ganglia
- ▶ Graphite
- ▶ Humio
- ▶ Influx
- ▶ JMX
- ▶ KairosDB
- ▶ New Relic
- ▶ Prometheus
- ▶ SignalFx
- ▶ Simple (in-memory)
- ▶ StatsD
- ▶ Wavefront

Configuring external monitoring system is as easy as adding dependency:

```
<dependency>  
  <groupId>io.micrometer</groupId>  
  <artifactId>micrometer-registry-${monitoring-system-name}</artifactId>  
</dependency>
```

You might also need to configure some properties, for example:

```
management.metrics.export.elastic.host=http://localhost:9200
```

