Spring Professional Exam Tutorial v5.0

Question 31

Question 31 - How do you create a custom metric with or without tags?

Spring Boot Actuator allows you to create custom metrics with usage of `MeterRegistry` from Micrometer Application Metrics Facade.

Micrometer used by Spring Boot Actuator allows you to register following Meter Primitives that will be exposed via `/actuator/metrics` endpoint:

- Counter
- Gauge
- Timer
- TimeGauge
- DistributionSummary
- LongTaskTimer
- FunctionCounter
- FunctionTimer

You can get more information on Meter Primitives from Micrometer Documentation:
https://micrometer.io/docs

Question 31 - How do you create a custom metric with or without tags?

Registration of metric can be done via method inside `MeterRegistry`:

```java
Counter objectsCount = meterRegistry.counter("storage.object.count", "type", "db");
```

or via usage of builder:

```java
Counter objectsCount = Counter.builder("storage.object.count")
        .tag("type", "db")
        .register(meterRegistry);
```

Question 31 - How do you create a custom metric with or without tags?

Micrometer allows you to expose data with dimensions via tags:

```
Counter objectsCount = meterRegistry.counter("storage.object.count", "type", "db");
```

or register simple meter without any dimensions:

```
Counter objectsCount = meterRegistry.counter("storage.object.count");
```