



[BOOT-1] Update the validation of the Micrometer configuration

Created: 22/Apr/20 10:48 AM - Updated: 22/Apr/20 11:07 AM - Resolved: 22/Apr/20 10:50 AM

Status:	Done
Project:	Spring Boot
Component/s:	Ganglia, Micrometer, Wavefront
Affects Version/s:	2.2.0, 2.2.1, 2.2.2
Fix Version/s:	2.3.0.RC1, 2.3.0

Type:	Task	Priority:	High
Reporter:	admin	Assignee:	admin
Resolution:	Done	Votes:	0
Labels:	configuration, registry		

Description

Update Spring Boot tests to accommodate a few deprecated properties in Micrometer 1.5.0 and the new validation API in [micrometer-metrics/micrometer#2011](#).

Background

The need for **stronger** type-aware validation was raised in a discussion with @ebullient with respect to Quarkus' build-time validation of configuration.

Previously, there was an inconsistent set of validations happening across some registries and not others, primarily resulting in a `MissingRequiredConfigurationException` (unchecked) at constructor time.

Here we introduce stronger validation of registry configuration interfaces. A new incubating API exists in `io.micrometer.core.instrument.config.validate` to address this concern. Some high level details:

- `MeterRegistryConfig` now has a `Validated<?> validate()` method with a default implementation that does no validation.
- `PushMeterRegistryConfig`, from which many other registry implementations extend validates all the properties common to push-based registries.
- `Validated` is a "sealed" class of sorts with specializations for `Valid`, `Invalid`, `None`, and `Either`. It contains many convenience methods for generating an initial valid or invalid signal, mapping them, flat mapping them, etc. Some examples included below.
- `MissingRequiredConfigurationException` has been deprecated in favor of the new `Validated` API.

Every Micrometer-provided registry implementation now performs validation at constructor time.

Git Commits

committed Andy Wilkinson - 21/Apr/20 7:06 PM

spring-boot

master

a034c9a118d815a6b777d6f4be0b8cb43c6ab79b

Merge pull request #21067 from jkschneider
 * gh-21067:
 Polish "Update validation of Micrometer configuration"
 Update validation of Micrometer configuration
 Closes gh-21067

committed Andy Wilkinson - 21/Apr/20 7:06 PM

spring-boot

master

60a76ce6e7c75f384d7aba625dd9eb1d4ea8522d

Polish "Update validation of Micrometer configuration"
See gh-21067

-	±11	-2	spring-boot-project/spring-boot-actuator-autoconfigure/src/main/java/org/springframework/boot/actuate/autoconfigure/metrics/ValidationFailureAnalyzer.java
+7	±1	-6	spring-boot-project/spring-boot-actuator-autoconfigure/src/main/java/org/springframework/boot/actuate/autoconfigure/metrics/export/ganglia/GangliaProperties.java
-	-	-5	spring-boot-project/spring-boot-actuator-autoconfigure/src/main/java/org/springframework/boot/actuate/autoconfigure/metrics/export/properties/PushRegistryPropertiesConfigAdapter.java
-	±6	-1	spring-boot-project/spring-boot-actuator-autoconfigure/src/test/java/org/springframework/boot/actuate/autoconfigure/metrics/ValidationFailureAnalyzerTests.java
+1	±1	-	spring-boot-project/spring-boot-actuator-autoconfigure/src/test/java/org/springframework/boot/actuate/autoconfigure/metrics/export/ganglia/GangliaPropertiesTests.java
-	±1	-2	spring-boot-project/spring-boot-actuator-autoconfigure/src/test/java/org/springframework/boot/actuate/autoconfigure/metrics/export/wavefront/WavefrontPropertiesTests.java
+8	±20	-16	<i>Total</i>

committed Jon Schneider - 21/Apr/20 7:06 PM

spring-boot

master

95798265b6fed27e6603f73f8b792b771a434645

Update validation of Micrometer configuration
See gh-21067

Deleted		-44	spring-boot-project/spring-boot-actuator-autoconfigure/src/main/java/org/springframework/boot/actuate/autoconfigure/metrics/MissingRequiredConfigurationFailureAnalyzer.java
+46	Added		spring-boot-project/spring-boot-actuator-autoconfigure/src/main/java/org/springframework/boot/actuate/autoconfigure/metrics/ValidationFailureAnalyzer.java
-	±3	-	spring-boot-project/spring-boot-actuator-autoconfigure/src/main/java/org/springframework/boot/actuate/autoconfigure/metrics/export/elastic/ElasticProperties.java
+6	±2	-	spring-boot-project/spring-boot-actuator-autoconfigure/src/main/java/org/springframework/boot/actuate/autoconfigure/metrics/export/ganglia/GangliaProperties.java
-	±1	-	spring-boot-project/spring-boot-actuator-autoconfigure/src/main/resources/META-INF/spring.factories
Deleted		-68	spring-boot-project/spring-boot-actuator-autoconfigure/src/test/java/org/springframework/boot/actuate/autoconfigure/metrics/MissingRequiredConfigurationFailureAnalyzerTests.java
+70	Added		spring-boot-project/spring-boot-actuator-autoconfigure/src/test/java/org/springframework/boot/actuate/autoconfigure/metrics/ValidationFailureAnalyzerTests.java
+2		-2	spring-boot-project/spring-boot-actuator-autoconfigure/src/test/java/org/springframework/boot/actuate/autoconfigure/metrics/export/wavefront/WavefrontPropertiesTests.java
+124	±6	-114	<i>Total</i>