Package mil.army.swf.micrometer.metrics.helper

Class MetricHelper

java.lang.Object

mil.army.swf.micrometer.metrics.helper.MetricHelper

@Service
public class MetricHelper
extends Object

Helper class for creating and updating metrics that will be scrapped by Prometheus

Method Summary

All Methods Static Methods Co	Concrete Methods		
Modifier and Type	Method	Description	
static void	<pre>createMultiTagCounter(String name, String description, String [] tagNames, String [] tagValues)</pre>	Creates a multi-tag micrometer counter	
static void	<pre>createMultiTagGauge(String name, String description, String [] tagNames, String [] tagValues)</pre>	Creates a multi-tagged tagged micrometer gauge	
static void	<pre>createMultiTagHistogramExpectedValueS (String name, String description, TimerTypes.TimerType type, Duration slosla, Duration min, Duration max, String [] tagNames, String [] tagValues)</pre>	Create a multi-tagged slo/sla timer	
static void	<pre>createMultiTagHistogramExpectedValueT (String name, String description,</pre>	Create a multi-tagged expected value timer	

	<pre>TimerTypes.TimerType type, Duration min, Duration max, String [] tagNames, String [] tagValues)</pre>	
static void	<pre>createMultiTagHistogramTimer(String name, String description, String [] tagNames, String [] tagValues)</pre>	Create a multi-tagged histogram timer
static void	<pre>createMultiTagTimer(String name, String description, String [] tagNames, String [] tagValues)</pre>	Create multi-tagged timer
static void	<pre>createTagCounter(String name, String description, String tagName, String tagValue)</pre>	Creates a tagged micrometer counter
static void	<pre>createTagGauge(String name, String description, String tagName, String tagValue)</pre>	Creates a tagged micrometer gauge
static void	<pre>createTagHistogramExpectedValueSloSla (String name, String description, TimerTypes.TimerType type, Duration slosla, Duration min, Duration max, String tagName, String tagValue)</pre>	Creates a histogram timer with expected value and service level objective or service level agreement
static void	<pre>createTagHistogramExpectedValueTimer (String name, String description, TimerTypes.TimerType type, Duration min, Duration max, String tagName, String tagValue)</pre>	Creates a histogram timer with expected values
static void	<pre>createTagHistogramTimer(String name, String description, String tagName, String tagValue)</pre>	Creates a histogram timer

static void	<pre>createTagTimer(String name, String description, String tagName, String tagValue)</pre>	Creates a tagged micrometer timer
static io.micrometer.prometheus.Promet	<pre>getRegistry()</pre>	Get the meter registry
static void	<pre>incrementMultiTagCounter(String name)</pre>	Increments multi-tag counter
static void	<pre>incrementMultiTagCounter(String name, long increment)</pre>	Increments a multi-tag counter with an increment value
static void	<pre>incrementTagCounter(String name)</pre>	Increments a defined tag counter
static void	<pre>incrementTagCounter(String name, long increment)</pre>	Increments a defined tagged counter with supplied incremental value
static void	<pre>recordMultiTagTime(String name, Duration duration)</pre>	Records the time for a multi-tagged timer
static void	<pre>recordMultiTagTime(String name, TimeUnit timeUnit, long timeValue)</pre>	Records the time for a multi-tagged timer
static void	<pre>recordTagTime(String name, Duration duration)</pre>	Records the time for a tagged timer
static void	<pre>recordTagTime(String name, TimeUnit timeUnit, long timeValue)</pre>	Records the time for a tagged timer
static void	<pre>setMultiTagGauge(String name, double value)</pre>	Set the value of a defined multi-tagged gauge
static void	<pre>setRegistry (io.micrometer.prometheus.PrometheusM</pre>	Sets the prometheus registry
static void	<pre>setTagGauge(String name, double value)</pre>	Set the value of a defined tagged gauge

Methods inherited from class java.lang.Object

```
clone , equals , finalize , getClass , hashCode , notify , notifyAll , toString , wait , wait , wait
```

Method Details

getRegistry

public static io.micrometer.prometheus.PrometheusMeterRegistry getRegistry()

Get the meter registry

Returns:

meter registry

setRegistry

public static void setRegistry(io.micrometer.prometheus.PrometheusMeterRegistry registry1)

Sets the prometheus registry

Parameters:

registry1 - prometheus registry

createTagCounter

Creates a tagged micrometer counter

Parameters:

```
name - meter name
```

description - meter description

tagName - tag name associated with timer

tagValue - tag value associated with timer

incrementTagCounter

Increments a defined tagged counter with supplied incremental value

Parameters:

name - meter name

increment - increment value

incrementTagCounter

```
public static void incrementTagCounter(String name)
```

Increments a defined tag counter

Parameters:

name - meter name

$create {\bf MultiTagCounter}$

Creates a multi-tag micrometer counter

Parameters:

name - meter name

description - meter description

tagNames - string array of tag names associated with timer

tagValues - string array of tag values associated with timer

incrementMultiTagCounter

Increments a multi-tag counter with an increment value

Parameters:

name - meter name

increment - increment number

incrementMultiTagCounter

public static void incrementMultiTagCounter(String name)

Increments multi-tag counter

Parameters:

name - meter name

createTagGauge

Creates a tagged micrometer gauge

Parameters:

```
name - meter name
```

description - meter description

tagName - tag name associated with timer

tagValue - tag value associated with timer

setTagGauge

Set the value of a defined tagged gauge

Parameters:

name - meter name

value - the value to set the gauge

createMultiTagGauge

Creates a multi-tagged tagged micrometer gauge

```
Parameters:
```

name - meter name

description - meter description

tagNames - string array of tag names associated with timer

tagValues - string array of tag values associated with timer

Throws:

IllegalArgumentException - tagName and tagValue array lengths are unequal

setMultiTagGauge

Set the value of a defined multi-tagged gauge

Parameters:

name - meter name

value - the value to set the gauge

createTagTimer

Creates a tagged micrometer timer

Parameters:

name - meter name

description - meter description

tagName - tag name associated with timer

tagValue - tag value associated with timer

createTagHistogramTimer

Creates a histogram timer

Parameters:

name - meter name

description - meter description

tagName - tag name associated with timer

tagValue - tag value associated with timer

createTagHistogramExpectedValueTimer

Creates a histogram timer with expected values

Parameters:

name - meter name

description - meter description

type - timer type

```
min - minimum expected value
```

max - maximum expected value

tagName - tag name associated with timer

tagValue - tag value associated with timer

createTagHistogramExpectedValueSloSlaTimer

Creates a histogram timer with expected value and service level objective or service level agreement

Parameters:

name - meter name

description - meter description

type - timer type

slosla - duration for SLA/SLO

min - minimum expected value

max - maximum expected value

tagName - tag name associated with timer

tagValue - tag value associated with timer

Throws:

InvalidOptionType - invalid timer type specified

recordTagTime

Records the time for a tagged timer

Parameters:

name - meter name

duration - duration of time to record

recordTagTime

Records the time for a tagged timer

Parameters:

name - meter name

timeUnit - time unit of the time value

timeValue - time value

Throws:

InvalidTimeUnitException - invalid time unit specified

createMultiTagTimer

Create multi-tagged timer

Parameters:

name - meter name

description - meter description

tagNames - string array of tag names associated with timer

tagValues - string array of tag values associated with timer

createMultiTagHistogramTimer

Create a multi-tagged histogram timer

Parameters:

name - meter name

description - meter description

tagNames - string array of tag names associated with timer

tagValues - string array of tag values associated with timer

createMultiTagHistogramExpectedValueTimer

Create a multi-tagged expected value timer

Parameters:

name - meter name

description - meter description

type - timer type

min - minimum expected value

max - maximum expected value

tagNames - string array of tag names associated with timer

tagValues - tring array of tag values associated with timer

createMultiTagHistogramExpectedValueSloSlaTimer

```
public static void createMultiTagHistogramExpectedValueSloSlaTimer(String name,
```

String description,
TimerTypes.TimerType type,
Duration slosla,
Duration min,
Duration max,
String [] tagNames,
String [] tagValues)
throws InvalidOptionType

Create a multi-tagged slo/sla timer

Parameters:

name - meter name

description - meter description

type - timer type

slosla - duration for SLA/SLO

min - minimum expected value

max - maximum expected value

tagNames - string array of tag names associated with timer

tagValues - string array of tag values associated with timer

Throws:

InvalidOptionType - timer tagName and tagValue array are unequal

recordMultiTagTime

Records the time for a multi-tagged timer

Parameters:

name - meter name

duration - duration of time to record

recordMultiTagTime

Records the time for a multi-tagged timer

Parameters:

name - meter name

timeUnit - time unit of the time value

timeValue - time value

Throws:

InvalidTimeUnitException - invalid time unit specified

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