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# Kubernetes External Metrics (v1beta1)

Package v1beta1 is the v1beta1 version of the external metrics API.

## Resource Types

- [ExternalMetricValue](#)
- [ExternalMetricValueList](#)

### ExternalMetricValue

Appears in:

- [ExternalMetricValueList](#)

ExternalMetricValue is a metric value for external metric A single metric value is identified by metric name and a set of string labels. For one metric there can be multiple values with different sets of labels.

Field	Description
apiVersion string	external.metrics.k8s.io/v1beta1
kind string	ExternalMetricValue
metricName <b>[Required]</b> string	the name of the metric
metricLabels <b>[Required]</b> map[string]string	a set of labels that identify a single time series for the metric
timestamp <b>[Required]</b> <a href="#">meta/v1.Time</a>	indicates the time at which the metrics were produced
window <b>[Required]</b> int64	indicates the window ([Timestamp-Window, Timestamp]) from which these metrics were calculated, when returning rate metrics calculated from cumulative metrics (or zero for non-calculated instantaneous metrics).
value <b>[Required]</b> <a href="#">k8s.io/apimachinery/pkg/api/resource.Quantity</a>	the value of the metric

### ExternalMetricValueList

ExternalMetricValueList is a list of values for a given metric for some set labels

Field	Description
apiVersion string	external.metrics.k8s.io/v1beta1
kind string	ExternalMetricValueList
metadata <b>[Required]</b> <a href="#">meta/v1.ListMeta</a>	No description provided.

Field	Description
items <b>[Required]</b> <a href="#">[]ExternalMetricValue</a>	value of the metric matching a given set of labels

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## External APIs

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[Kubernetes Custom Metrics \(v1beta2\)](#)

[Kubernetes External Metrics \(v1beta1\)](#)

[Kubernetes Metrics \(v1beta1\)](#)

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## Kubernetes Custom Metrics (v1beta2)

Package v1beta2 is the v1beta2 version of the custom\_metrics API.

### Resource Types

- [MetricListOptions](#)
- [MetricValue](#)
- [MetricValueList](#)

### MetricListOptions

MetricListOptions is used to select metrics by their label selectors

Field	Description
apiVersion string	custom.metrics.k8s.io/v1beta2
kind string	MetricListOptions
labelSelector string	A selector to restrict the list of returned objects by their labels. Defaults to everything.
metricLabelSelector string	A selector to restrict the list of returned metrics by their labels

### MetricValue

Appears in:

- [MetricValueList](#)

MetricValue is the metric value for some object

Field	Description
apiVersion string	custom.metrics.k8s.io/v1beta2
kind string	MetricValue
describedObject <b>[Required]</b> <a href="#">core/v1.ObjectReference</a>	a reference to the described object
metric <b>[Required]</b> <a href="#">MetricIdentifier</a>	No description provided.
timestamp <b>[Required]</b> <a href="#">meta/v1.Time</a>	indicates the time at which the metrics were produced
windowSeconds <b>[Required]</b> int64	indicates the window ([Timestamp-Window, Timestamp]) from which these metrics were calculated, when returning rate metrics calculated from cumulative metrics (or zero for non-calculated instantaneous metrics).
value <b>[Required]</b> <a href="#">k8s.io/apimachinery/pkg/api/resource.Quantity</a>	the value of the metric for this

## MetricValueList

MetricValueList is a list of values for a given metric for some set of objects

Field	Description
apiVersion string	custom.metrics.k8s.io/v1beta2
kind string	MetricValueList
metadata <b>[Required]</b> <a href="#">meta/v1.ListMeta</a>	No description provided.
items <b>[Required]</b> <a href="#">[]MetricValue</a>	the value of the metric across the described objects

## MetricIdentifier

Appears in:

- [MetricValue](#)

MetricIdentifier identifies a metric by name and, optionally, selector

Field	Description
name <b>[Required]</b> string	name is the name of the given metric
selector <a href="#">meta/v1.LabelSelector</a>	selector represents the label selector that could be used to select this metric, and will generally just be the selector passed in to the query used to fetch this metric. When left blank, only the metric's Name will be used to gather metrics.

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# Kubernetes Metrics (v1beta1)

Package v1beta1 is the v1beta1 version of the metrics API.

## Resource Types

- [NodeMetrics](#)
- [NodeMetricsList](#)
- [PodMetrics](#)
- [PodMetricsList](#)

## NodeMetrics

Appears in:

- [NodeMetricsList](#)

NodeMetrics sets resource usage metrics of a node.

Field	Description
apiVersion string	metrics.k8s.io/v1beta1
kind string	NodeMetrics
metadata <a href="#">meta/v1.ObjectMeta</a>	Standard object's metadata. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata</a>
timestamp <b>[Required]</b> <a href="#">meta/v1.Time</a>	Refer to the Kubernetes API documentation for the fields of the metadata field.
window <b>[Required]</b> <a href="#">meta/v1.Duration</a>	The following fields define time interval from which metrics were collected from the interval [Timestamp-Window, Timestamp].
usage <b>[Required]</b> <a href="#">core/v1.ResourceList</a>	No description provided.
	The memory usage is the memory working set.

## NodeMetricsList

NodeMetricsList is a list of NodeMetrics.

Field	Description
apiVersion string	metrics.k8s.io/v1beta1
kind string	NodeMetricsList
metadata <b>[Required]</b> <a href="#">meta/v1.ListMeta</a>	Standard list metadata. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds</a>

Field	Description
items <b>[Required]</b> <a href="#">[.]NodeMetrics</a>	List of node metrics.

## PodMetrics

Appears in:

- [PodMetricsList](#)

PodMetrics sets resource usage metrics of a pod.

Field	Description
apiVersion string	metrics.k8s.io/v1beta1
kind string	PodMetrics
metadata <a href="#">meta/v1.ObjectMeta</a>	Standard object's metadata. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata</a>
timestamp <b>[Required]</b> <a href="#">meta/v1.Time</a>	Refer to the Kubernetes API documentation for the fields of the metadata field.
window <b>[Required]</b> <a href="#">meta/v1.Duration</a>	The following fields define time interval from which metrics were collected from the interval [Timestamp-Window, Timestamp].
containers <b>[Required]</b> <a href="#">[.]ContainerMetrics</a>	No description provided.
	Metrics for all containers are collected within the same time window.

## PodMetricsList

PodMetricsList is a list of PodMetrics.

Field	Description
apiVersion string	metrics.k8s.io/v1beta1
kind string	PodMetricsList
metadata <b>[Required]</b> <a href="#">meta/v1.ListMeta</a>	Standard list metadata. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds</a>
items <b>[Required]</b> <a href="#">[.]PodMetrics</a>	List of pod metrics.

## ContainerMetrics

Appears in:

- [PodMetrics](#)

ContainerMetrics sets resource usage metrics of a container.

Field	Description
name <b>[Required]</b> string	Container name corresponding to the one from pod.spec.containers.
usage <b>[Required]</b> <a href="#">core/v1.ResourceList</a>	The memory usage is the memory working set.