

title: Sematext Common Schema description: The following tags are treated as special in Sematext Cloud and cannot be used as custom tags or in App agent YAMLs. They are used to correlate data across multiple Apps.

Tags are sent by the Sematext Agent as part of every data point or log event and they are shown in UI as filters.

The following tags should not be used as custom tags or in in App agent YAMLs.

Logs Tags

Refer to this list of default fields for Logs Apps. The tags below are applicable to all logs types:

Tag Name	Description	Synonymous Tags
host	A single-valued field and should contain the ID, typically a hostname, of the device or server sending logs.	
source	A single-valued field and should contain the ID or descriptor of where the data is coming from. For example, this could be a file name or even a full path to a filename, or the name of the application or process	
facility	A single-valued field used by syslog to indicate the facility level. Sematext stores the keyword values of these levels (such as <i>user</i> or <i>auth</i>).	
severity	A single-valued field and should contain the log level, such as <i>error</i> or <i>info</i> .	

Tag Name	Description	Synonymous Tags
syslog-tag	A single-valued field used by syslog to indicate the name and the PID of the application generating the event (for example, httpd[215]:).	
tags	A multi-valued array field that can contain zero or more tags. Tags can contain multiple tokens separated by space.	
message	A string field that can contain any sort of text (usually the original log line or some other free text).	
@timestamp	A date field, on which log retention is based. If it's not present, it will be added automatically when the log event is received by Sematext. See Supported Date Formats.	
error.id	A reserved field for errors	
error.message	A reserved field for errors	
error.type	A reserved field for errors	
span.id	Building block of a trace in distributed tracing	
trace.id	Building block of a trace in distributed tracing	
geo.location	A latitude and longitude defining the location associated with the log line	

Tag Name	Description	Synonymous Tags
geo.city_name	The city associated with the log line	
geo.region	The region associated with the log line	
geo.region_iso_code	The region ISO code associated with the region in the log line	
geo.country_name	The country associated with the log line	
geo.country_iso_code	The ISO code associated with the country in the log line	
geo.continent_name	The continent associated with the log line	

All of these fields are optional, but their use is strongly encouraged. If found in logs with low-enough cardinality, all distinct values of these fields will be loaded and shown in the UI as filters and thus allowing one to very quickly narrow down the search.

Common Tags

The tags below are applicable to all metrics/logs types:

Tag Name	Description	Synonymous Tags
os.host	Hostname of the host where the agent is running	host, hostname, host.id, host.name, server.name
token	Sematext App Token	
measurement	Reserved as per Influx Line Protocol	
tag.alias.type	Denotes the Tag Alias type	

Operating System Tags

Below are the OS related tags sent as part of OS metrics/logs. They are collected from the host the Sematext Agent is running on. They're mapped to the `os.host` tag.

Tag Name	Description
os.disk	Human readable name of the block device
os.disk.mountpoint	Mount point for the disk in the file system
os.disk.fs.type	Type of the file system associated with the device
os.network	Name of the network interface
os.uuid	Unique ID based on SMBIOS specification
os.distro.name	Distribution name of the OS. e.g. ubuntu
os.distro.version	Version of the OS. e.g. 16.04
os.kernel	Version of the Kernel. e.g. 4.4.0-130-generic
jvm.version	Version of JVM, if available in PATH
virtualization	Virtualization Type. Possible values are BareMetal , VM , Container
-	All user-defined container labels. These tag are mapped to os.host and container.id

Cloud Tags

The cloud metadata from AWS, Azure and GCE instances are collected as tags. They're mapped to the **os.host** tag.

Tag Name	Description	Supported Cloud Providers
cloud.type	Provider Type	AWS, GCE, Azure
cloud.instance.id	Instance Identifier	AWS, GCE, Azure
cloud.instance.name	Instance Name	Azure, GCE
cloud.instance.type	Instance Type	AWS, GCE, Azure
cloud.region	Region	AWS, Azure
cloud.zone	Availability Zone	AWS, GCE
cloud.project	Project Identifier	GCE
-	User-defined tags	AWS, GCE, Azure

To collect user-defined cloud tags from AWS, Azure or GCE environment you need to define the IAM roles listed below:

1. AWS - EC2 Instances should be created with AWS IAM Role that has policy **AmazonEC2ReadOnlyAccess**. See AWS/EC2 User Guide for more info.

2. Azure - To fetch resource tags for Virtual Machines, you need to grant **Reader** role to its Resource Group in Azure Resource Manager. See Access Azure Resource Manager API for more info.
3. GCE - In GCE user-defined tags are called labels. To read labels, the instance needs **roles/compute.viewer** IAM role. See Granting Roles to Service Accounts for more info.

Cloud tags collection is enabled by default. To disable Cloud tags collection set `cloud.metadata-enabled` to `false` in `/opt/spm/properties/st-agent.yml` and restart `spm-monitor` using `sudo service spm-monitor restart`.

Process Tags

Below are Process related tags sent as part of process info:

Tag Name	Description	Synonymous Tags
process.name	Process/program name	
process.pid	Process identifier	
process.ppid	Parent process identifier	
process.type	Process type. An example of a process type can be master or child for Node.js processes.	

Network Traffic Stats Tags

Below are the tags sent as part of Network Traffic Status info:

Tag Name	Description	Synonymous Tags
network.address	Local address of the network connection	
network.destination.address	Remote host address of the network connection	
network.destination.port	Remote port	
network.protocol	Protocol name (TCP or UDP)	

Tag Name	Description	Synonymous Tags
network.outgoing	Determines whether the connection is incoming (local process serves the connection) or outgoing (local process connects to remote server)	

Container Tags

Below are container related tags sent as part of metrics/logs in the container environment:

Tag Name	Description	Synonymous Tags
container.type	Type of container engine (e.g. docker, rkt, crio)	
container.name	Container name	
container.id	Container identifier	
container.image.name	Container image name	
container.hostname	Hostname of the container being monitored	
container.host.hostname	Hostname of the host where the container is running	

Kubernetes Tags

Below are Kubernetes related tags sent as part of metrics/logs in the Kubernetes environment.

Tag Name	Description	Synonymous Tags
kubernetes.pod.name	Name of the kubernetes pod	pod
kubernetes.pod.node	Node name where the pod is running	
kubernetes.cluster.name	Kubernetes cluster name	
kubernetes.deployment.name	Kubernetes deployment name	
kubernetes.namespace	Kubernetes namespace	

Tag Name	Description	Synonymous Tags
kubernetes.pvc.name	Kubernetes Persistent Volume Claim name	
kubernetes.pod.controller	Controller of the pod (deployment or DaemonSet or StatefulSet)	

Serverless Tags

Below are Serverless related tags sent as part of metrics/logs in the Serverless environment:

Tag Name	Description	Synonymous Tags
function.name	Name of the Lambda function	
function.version	Version of the Lambda function	
function.request.id	Identifier of the invocation request	

Synthetic Monitoring Tags

Below are tags sent as part of metrics in Sematext Synthetic Monitoring:

Tag Name	Description	Synonymous Tags
synthetics.monitor.id	Identifier of the Monitor	
synthetics.run.id	Identifier of the Monitor run	
synthetics.location.id	Identifier of the Monitor location	
synthetics.content.type	Type of the resource content	
synthetics.domain	The resource URL of the domain	
synthetics.response.code	The resource HTTP response status code	

Other Special Tags

Below are tags that are reserved for future use:

Tag Name	Description	Synonymous Tags
os.host.ip	IP Address of the host/server	server.ip, server.address, host.ip, host.address, source.ip, source.address
service.name	Name of the service where the data is collected from	

Tag Name	Description	Synonymous Tags
service.id	Unique service identifier	
service.type	Service type e.g. <code>hadoop</code>	
span.id	Building block of a trace in distributed tracing	
trace.id	Building block of a trace in distributed tracing	