title: Sematext Docker Agent Overview description: Sematext Docker Agent is a modern, Docker-native monitoring and log collection agent. It runs as a tiny container on every Docker host and collects logs, metrics, and events for all cluster nodes and their containers. It is open source agent created by Sematext, APM, Log Management, Tracing, RUM Cloud and on-premises platform

Please note Sematext Docker Agent is deprecated!

Please refer to Container Monitoring to set up Sematext Agent for Metrics and Container Logs to set up Logagent

More about Docker Monitoring with Sematext

- Docker Container Monitoring with Sematext
- Docker Container Monitoring and Management Challenges
- Docker Container Performance Metrics

Overview

Sematext Docker Agent is a modern, Docker-native monitoring and log collection agent. It runs as a tiny container on every Docker host and collects logs, metrics, and events for all cluster nodes and their containers.

The agent discovers all containers on all nodes managed by Docker Swarm, Docker Cloud, Kubernetes, Red Hat OpenShift, Rancher or Mesos. After the deployment all logs, Docker events, and metrics are immediately available out of the box and stored on premise using Sematext Enterprise or on AWS Sematext Cloud service.

Sematext Cloud integration for Docker uses the open-source Docker monitoring agent available on Docker Registry as a ready-to-go sematext-agent-docker image.

Type

Description

Operating System Metrics

Host machine metrics

CPU Usage

Memory Usage

Network Stats

Disk I/O Stats

Docker Container Metrics/Stats
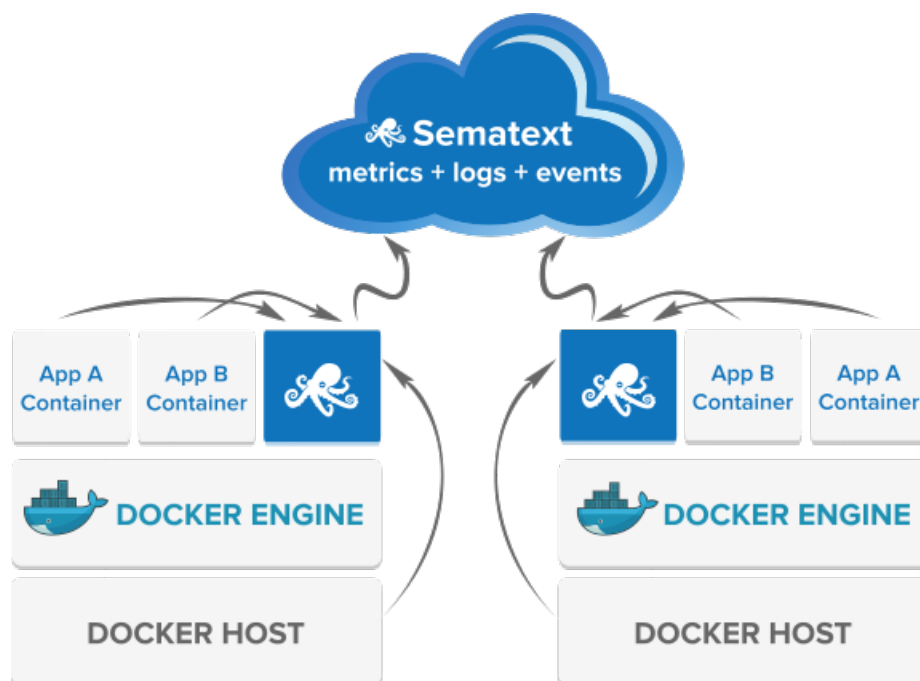
CPU Usage / limits

Figure 1: Sematext Docker Agent Diagram

Memory Usage / Limits / Fail Counters

Network Stats

Disk I/O Stats

Events

Agent Startup Event

server-info – created by spm-agent framework with node.js and OS version info on startup. Please note the agent is implemented in node.js.

Docker-info – Docker Version, API Version, Kernel Version on startup

Docker Events

Container Lifecycle Events| create, exec_create, destroy, export, ...

Container Runtime Events

die, exec_start, kill, pause, restart, start, stop, unpause, ...

Docker Logs

Default Fields

hostname / IP address

container id

container name

image name

message

Log formats

(detection and log parsers)

Nginx

Apache httpd, Kafka, Solr, HBase, Zookeeper, Cassandra

MySQL

MongoDB

Redis

Elasticsearch

NSQ / Nsq.io

JSON, plain text

patterns are maintained at https://github.com/sematext/logagent-js

Supported Platforms

- Docker >= 1.6
- Platforms using Docker:
    - Docker Community Edition (CE)
    - Docker Enterprise Edition (EE)
    - Kubernetes
    - Red Hat OpenShift
    - Rancher
    - Mesos
    - CoreOS
    - Amazon ECS
    - DEIS PaaS

Certified and Public Images

There are several places to obtain Sematext Docker Agent images:

Docker Certified images in the Docker Store

```
docker pull store/sematext/sematext-agent-docker
```

Red Hat certified images in the Red Hat Container Catalog

```
docker login registry.connect.redhat.com
docker pull registry.connect.redhat.com/sematext/sematext-agent-docker
```

Public images from Docker Hub

```
docker pull sematext/sematext-agent-docker
```

Github Repository

Latest information for sematext-agent-docker and open issues.