Cadvisor and Prometheus

In our last article The container monitor – cadvisor, we already introduce how to use cadvisor to collect containers' metadata. So in this blog, we are going to introduce how to combine cadvisor and Prometheus to build a monitor system.

- how to combine cadvisor and Prometheus.
- check CPU, memory and network status in Prometheus.

How to combine cadvisor and Prometheus

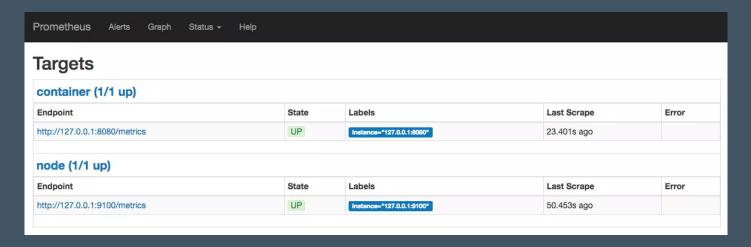
Step1: add cadvisor into Prometheus as target:

```
#prometheus.yml

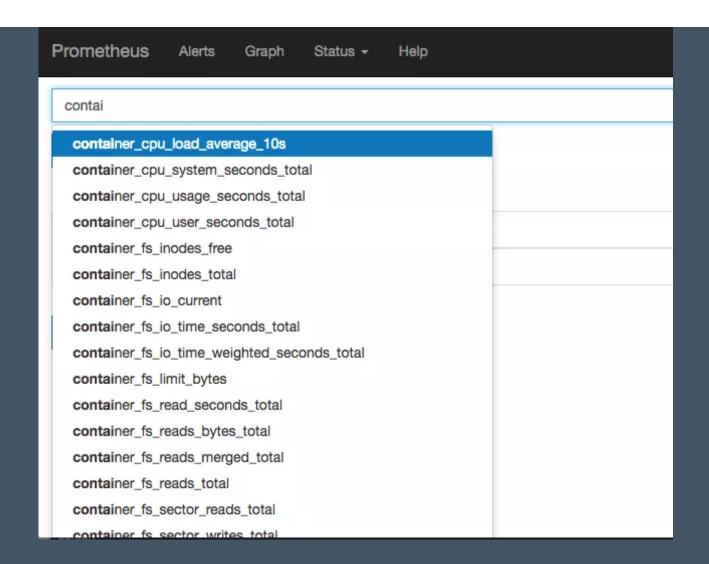
scrape_configs:
    - job_name: 'node'
    static_configs:
     - targets: ['127.0.0.1:9100']
```

- job_name: 'container'
static_configs:
 - targets: ['127.0.0.1:8080'] # access address of cadvisor

Step2: reload configuration of prometheus,
visit http://localhost:9090/targets and you will see the cadvisor has been added into Prometheus.

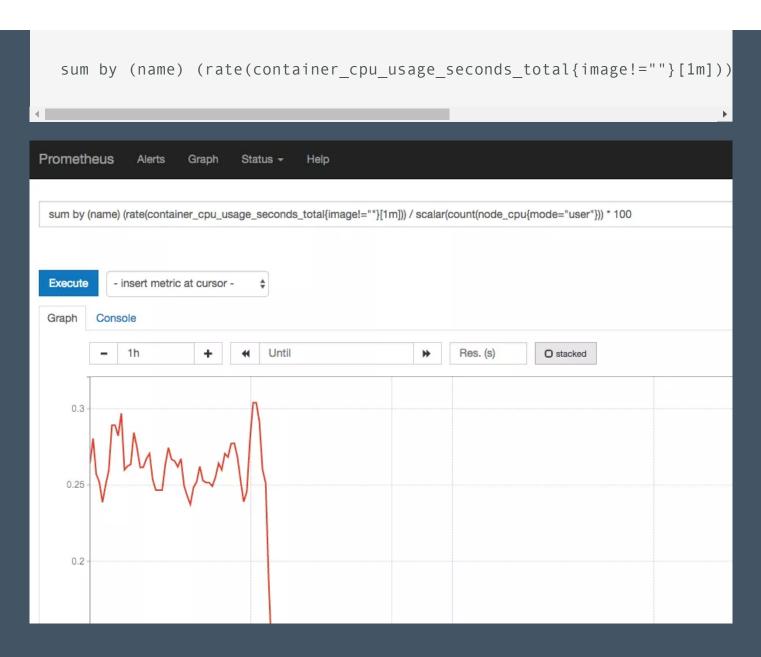


Step3: visit graph page of Prometheus by http://localhost:9090/graph, and you will be able to search related data by container.



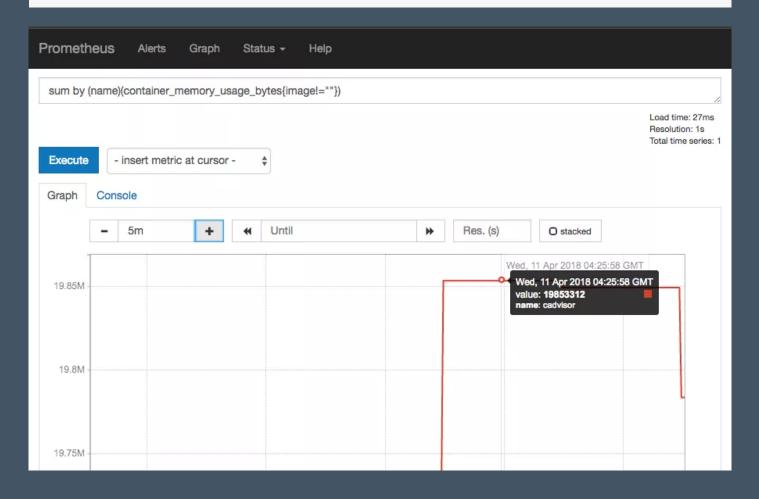
Show CPU, memory and Network with Prometheus

CPU:



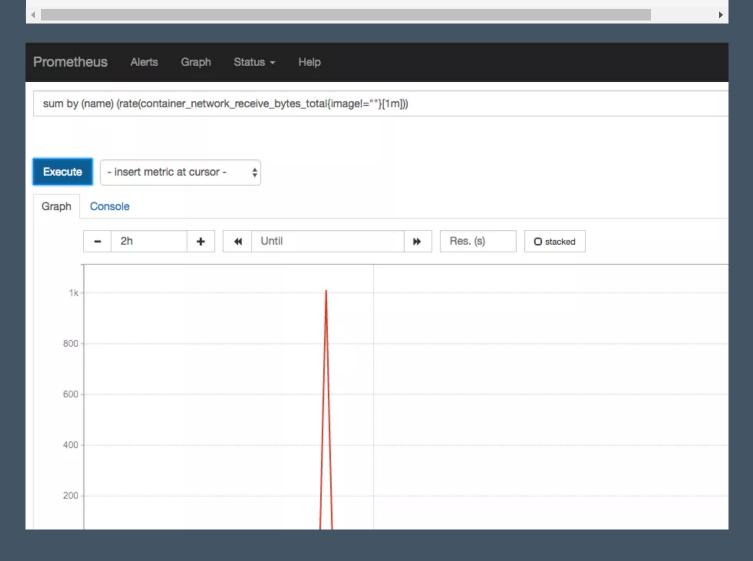
Memory:

sum by (name)(container_memory_usage_bytes{image!=""})



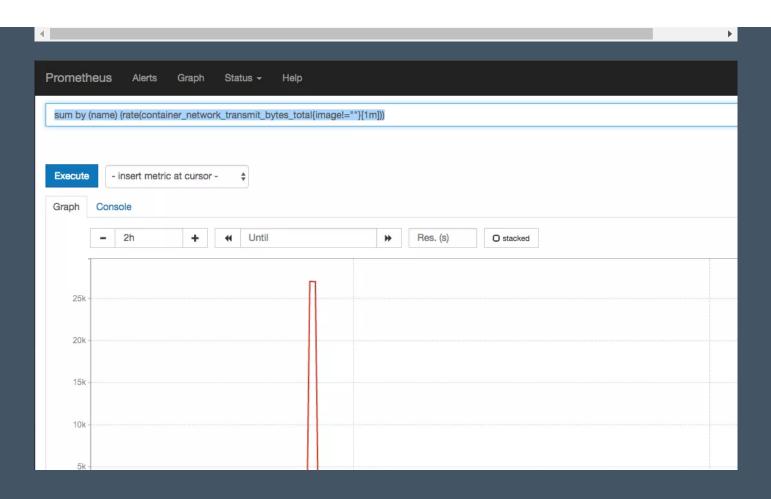
Network(Import):

sum by (name) (rate(container_network_receive_bytes_total{image!=""}[1



Network(Export):

sum by (name) (rate(container_network_transmit_bytes_total{image!=""}[



Disk:

```
sum by (name) (container_fs_usage_bytes{image!=""})
```

