#### **GrafanaCon LA**

# Sensu Check Output Metric Extraction with InfluxDB and Grafana

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# **Shameless self-promo**

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### Your monitoring stack shouldn't cost you stacks

# Collect, record, & visualize your metrics with open source tools



#### Sensu Collect

Monitoring event pipeline

# **InfluxDB**

Record

Time-series database

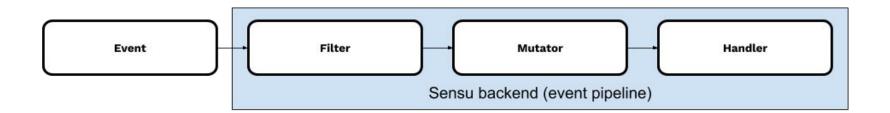
#### Grafana

Visualize

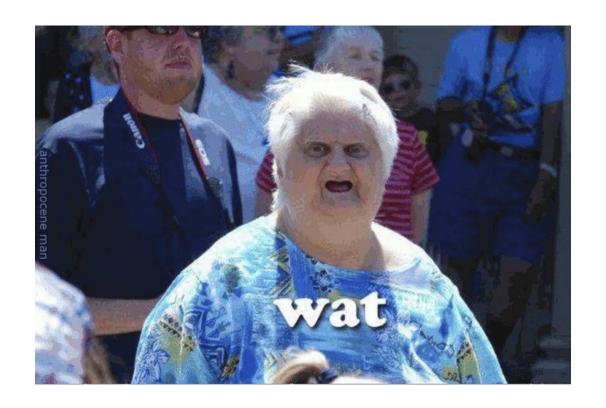
Data visualization

Wat is Sensu?

# Sensu is a <u>monitoring event</u> <u>pipeline</u>.



# wat



# Why not both?

Application Performance Monitoring

Network & Infrastructure Monitoring





Metric Aggregation

Service Checks

# Why not both?



# **Supported metric formats: output\_metric\_format**



InfluxDB influxdb\_line

kube-apiserver-node-01 cpu=16.4 1550625843



OpenTSDB opentsdb line

kube-apiserver-node-01.cpu 1550625843 16.4



**Graphite**graphite\_plaintext

kube-apiserver-node-01.cpu 16.4 1550625843



Nagios nagios\_perfdata

CPU ok - CPU = 16.4 | kube-apiserver-node-01.cpu=16.4

docs.sensu.io

# **Sensu Check Configuration and Event Data**

```
type: CheckConfig
api version: core/v2
metadata:
name: check-cpu-influxdb
namespace: default
command: check-cpu.sh
 - metrics
output metric format: influxdb line
output metric handlers:
- influxdb
```

```
type: Event
api version: core/v2
spec:
  name: check-cpu-influxdb
  output: kube-apiserver-node-01 cpu=16.4 1550625843
 - influxdb
  - name: kube-apiserver-node-01.cpu
    value: 16.4
    timestamp: 1550625843
```

#### check-cpu.sh

```
echo $(hostname) cpu=$(ps -A -o %cpu | awk '{s+=$1} END {print s}') $(date +%s)
```

# Configuration isn't magic.. Or is it?

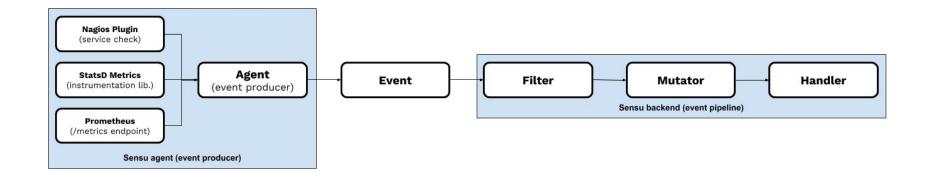


#### Insert time series-database here, seriously

```
type: Event
api version: core/v2
check:
  name: check-cpu-influxdb
 output: kube-apiserver-node-01 cpu=16.4 1550625843
metrics:
 - influxdb
 - name: kube-apiserver-node-01.cpu
   value: 16.4
   timestamp: 1550625843
```

```
type: Handler
api version: core/v2
metadata:
namespace: default
name: influxdb
type: pipe
command: sensu-influxdb-handler -d sensu
- INFLUXDB ADDR=http://influxdb.default.local:8086
- INFLUXDB USER=sensu
- INFLUXDB PASS=password
- has metrics
```

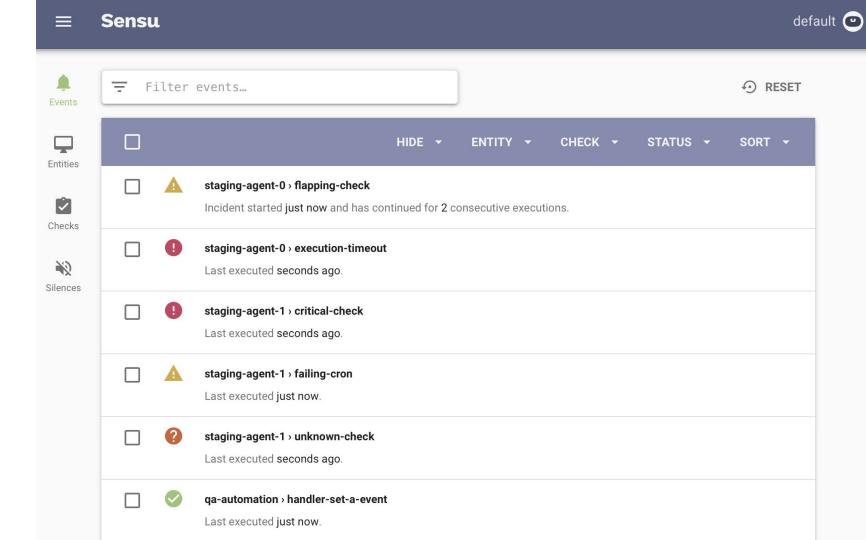
# **The Monitoring Event Pipeline**





# Raise the roof, cause your monitoring is all under one roof





# Enter Grafana!

Sensu

**Checks** 



#### Resources

- sensu.io
- github.com/sensu/sensu-go
- github.com/sensu/sensu-influxdb-handler
- blog.sensu.io
- docs.sensu.io
- discourse.sensu.io

Come chat at the Sensu booth!