

# Time-series data tracking process

Clients need a clean, concise or intuitive dashboard for visualizing time-series data. The solution also need to be simple, so that it can be easily used by non-technical person.

## The Collector

Time-series data need to be collected from the system and store in a database

STEP  
01



STEP  
02

## The Database

Using InfluxDB to store time-series data. Allowing easy manipulation of huge data

## Visualizing Data

Time-series data is hard to read if given in data point. Hence, we use Grafana to build beautiful dashboards

STEP  
03



STEP  
04

## Alerts

These dashboards need to provide a timely alert and warning protocol if any system fail to perform

## The Delivery

Able to produce monthly report and enhance ability manipulate data

STEP  
05

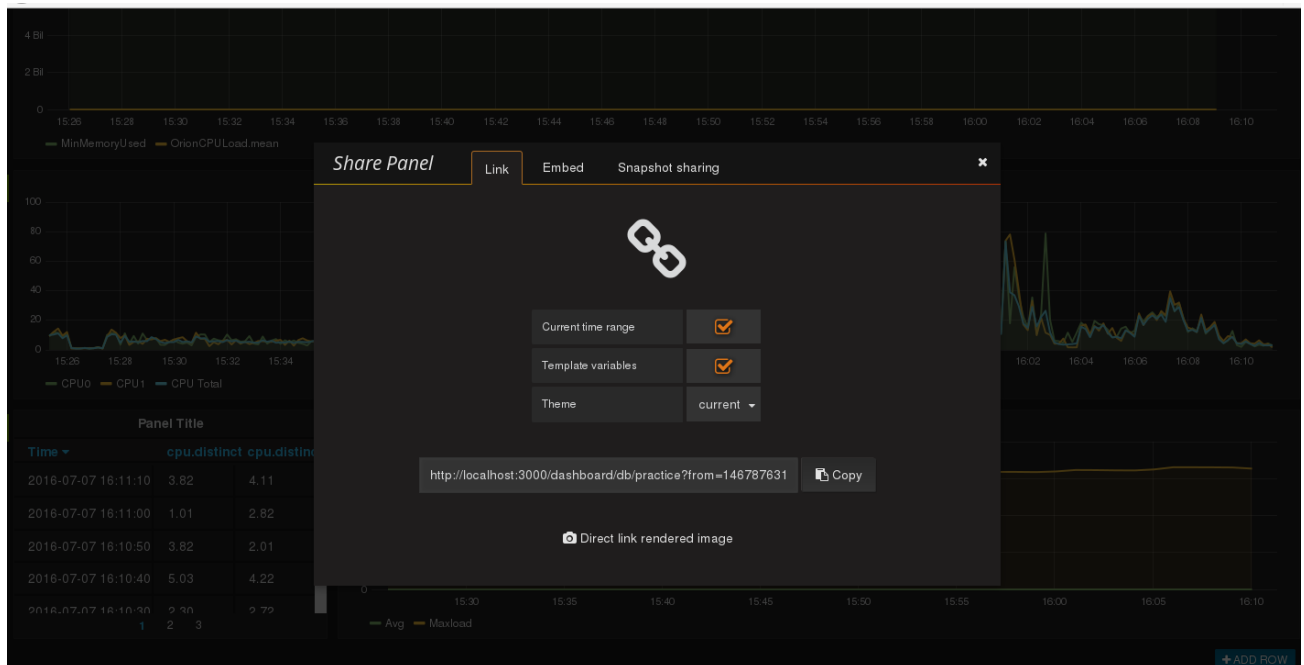


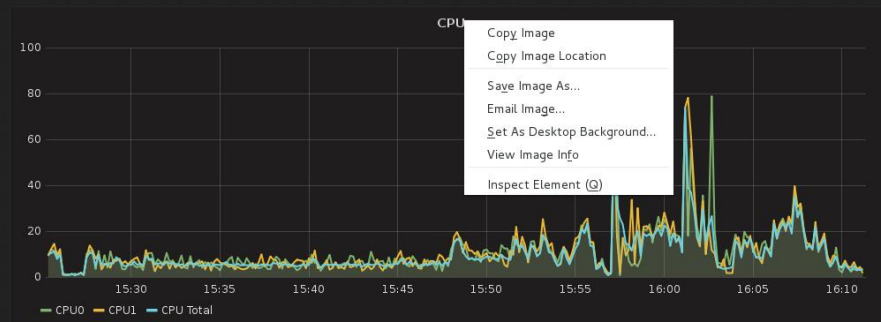
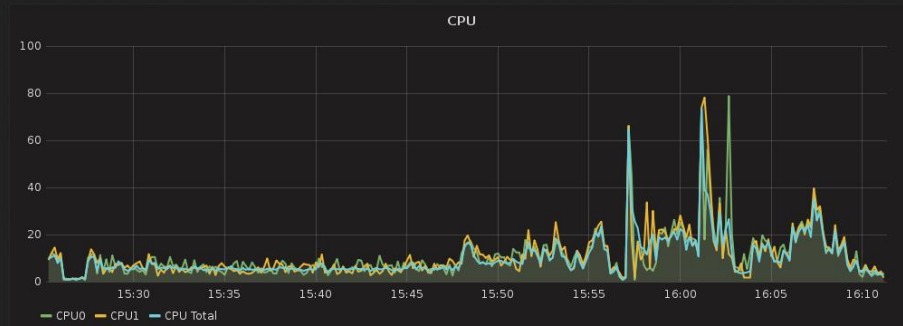
# Report All Panels at once

## Step 3: Grafana- Visualizing time-series data

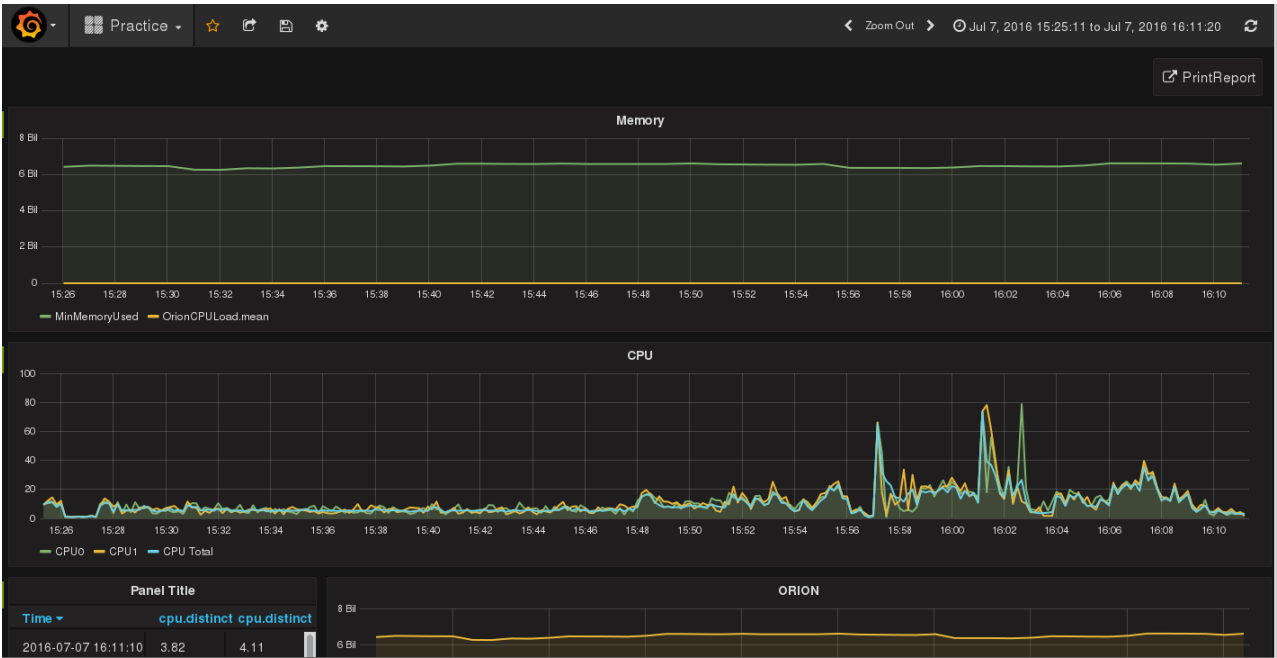


# Problems

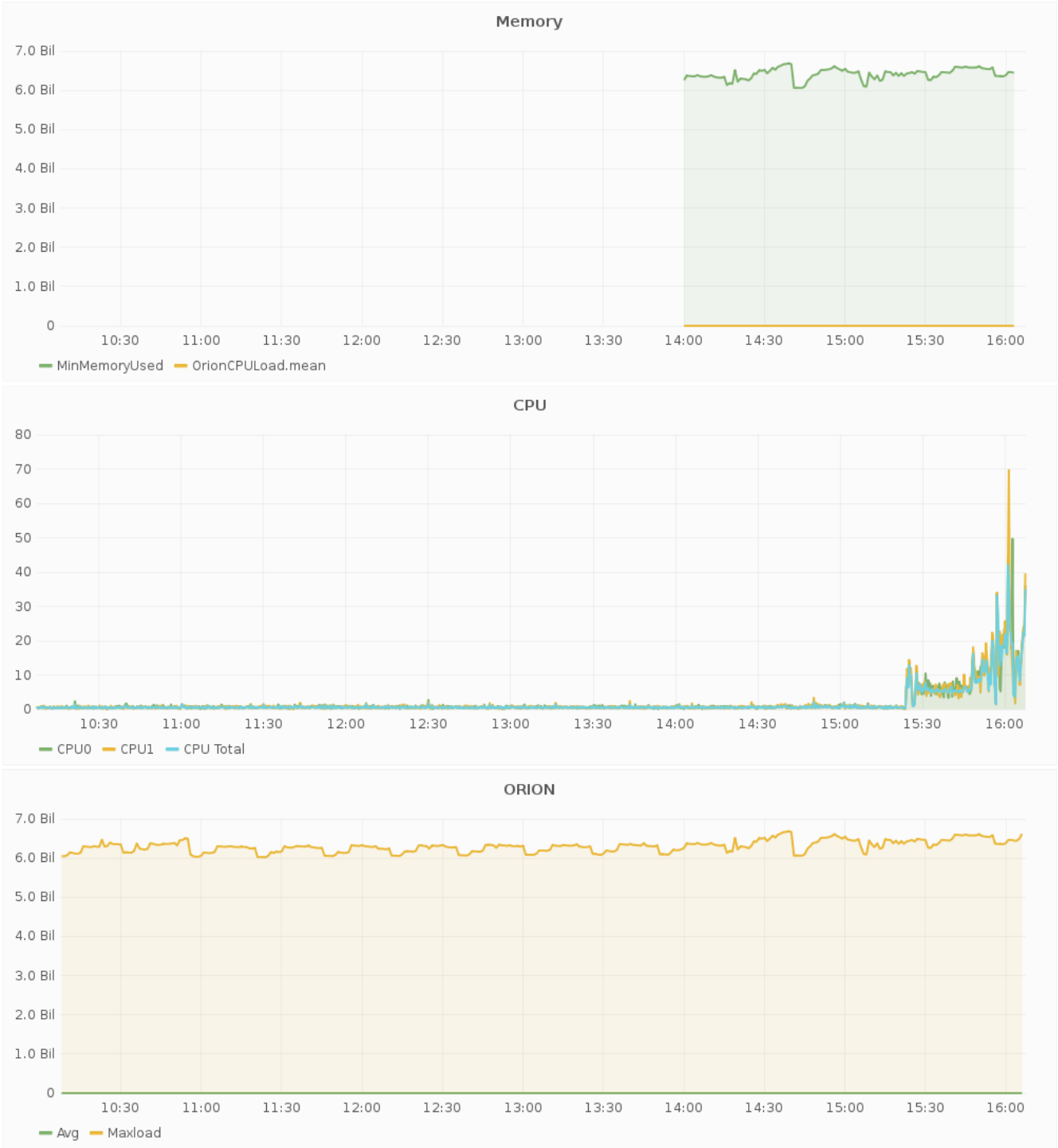




SOLUTION



Download All



Panel Title		
Time ▼	cpu.distinct	cpu.distinct
2016-07-07 16:07:20	33.57	30.75
2016-07-07 16:07:00	14.26	15.27
2016-07-07 16:06:40	17.51	24.42
2016-07-07 16:06:20	19.98	18.19
2016-07-07 16:06:00	18.74	25.23
2016-07-07 16:05:40	6.46	15.75
2016-07-07 16:05:20	3.54	7.38
2016-07-07 16:05:00	6.61	1.02

1

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6

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9

# EXPORT TO EXCEL SOLUTION

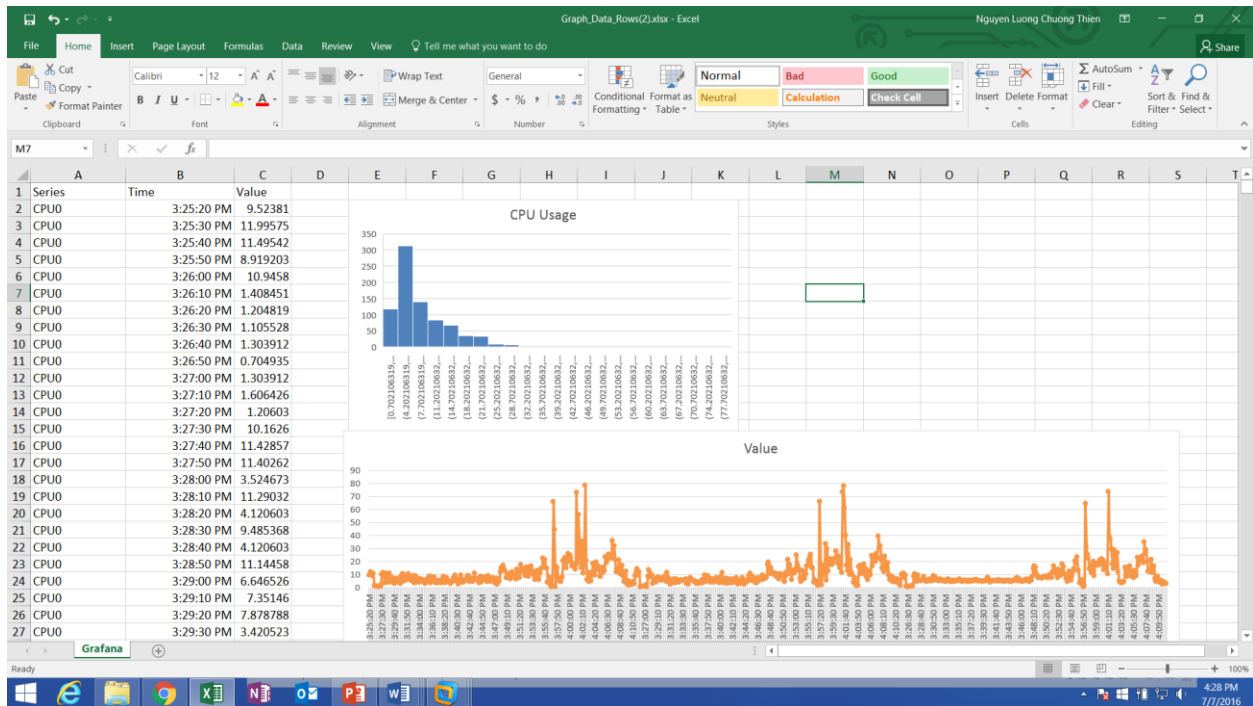
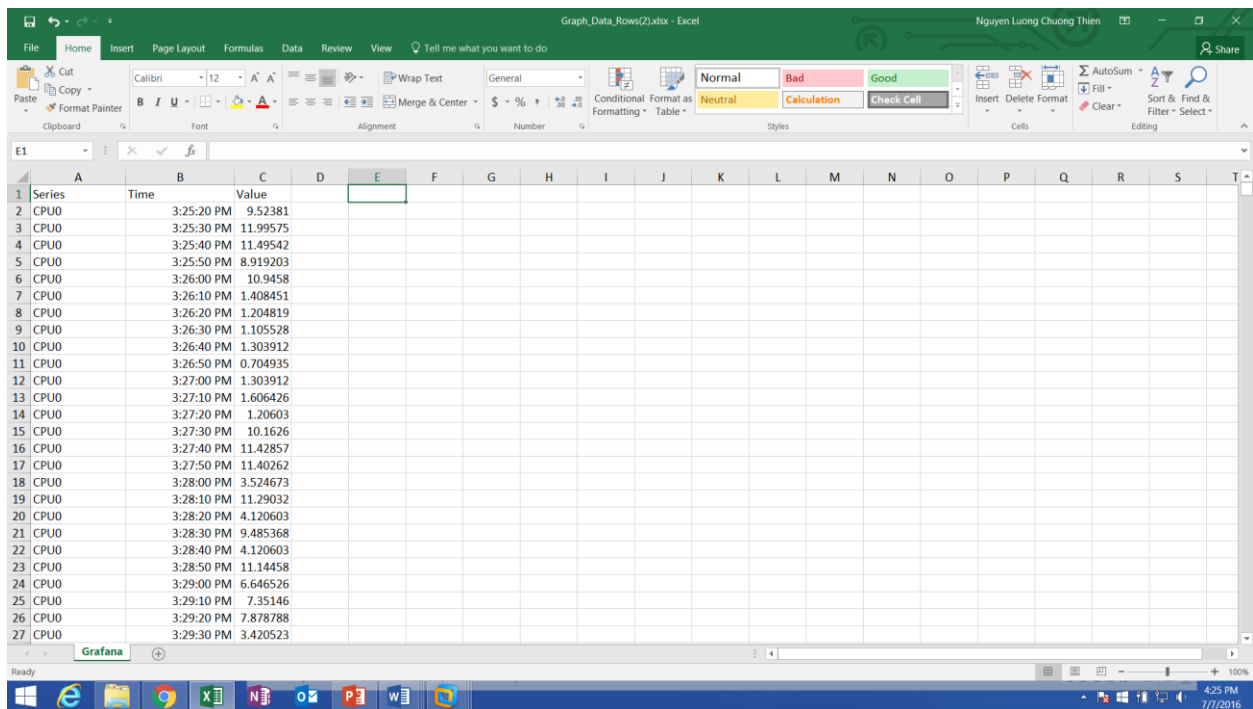
## Step 5: Grafana- Reporting Data Problem



## Solution

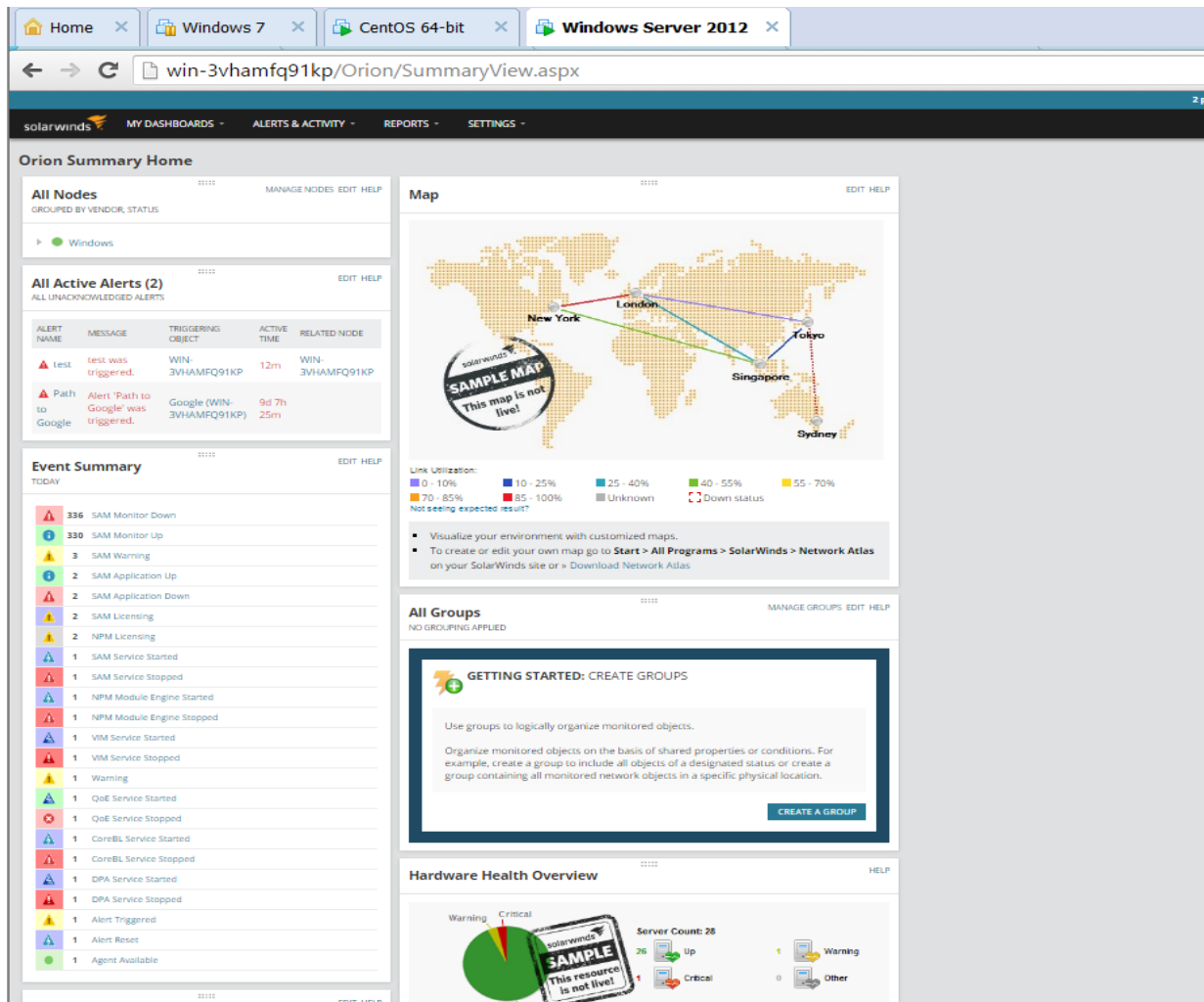






# EXTEND THE CAPABILITY

## Step 1: Collecting Time-Series Data Problem



# Solution

Windows Server 2012 - VMware Workstation

File Edit View VM Tabs Help

Home Windows 7 CentOS 64-bit Windows Server 2012

InfluxDB - Admin Interface: 192.168.201.129:8083/#

InfluxDB Write Data Documentation Database: July7v1

Query: select \* from OrionNodes

SolarWinds to InfluxDB

SolarWindsServer  
ID win-3vhmfq91kq  
Pass  
Query SELECT NodeID, DateTime, Archive, MinLoad, MaxLoad, AvgLoad, TotalMemory, M  
InfluxServer 192.168.201.129  
Port 8086  
Host  
Pass  
ID  
DBNAME mydb  
Update Period (mins) 5  
How many months back? 1

Start Quit

Executing again in 300.0 seconds from 2016-07-07 16:34:42.293000

Submit 1th point(s)  
Submit 2th point(s)  
Submit 3th point(s)  
Database is Up-To-Date

Update Database: July5V1  
Run time 5.347900000485  
Executing again in 300.0 seconds from 2016-07-07 16:38:45.881000

Submit 1th point(s)  
Submit 2th point(s)  
Submit 3th point(s)  
Submit 4th point(s)  
Database is Up-To-Date

Update Database: July5V1  
Run time 4.76988805341  
Executing again in 300.0 seconds from 2016-07-07 16:39:47.881000

time	NodeID	Archive	MinLoad	MaxLoad	AvgLoad	TotalMemory	WinMemoryUsed	NodeID	TotalMemory			
2016-06-30T07:40:45.412999936Z	0	59	6290137088	73.2314453125	"WIN-3VHAMFQ91KQ"	"192.168.201.136" "IPv4"	59	6290137088	59	6290137088	"1"	8589393920
2016-06-30T07:41:15.256999936Z	0	23	6431674368	74.8792572021	"WIN-3VHAMFQ91KQ"	"192.168.201.136" "IPv4"	23	6431674368	23	6431674368	"1"	8589393920
2016-06-30T07:41:18.007000064Z	0	37	6435934208	74.9288482666	"WIN-3VHAMFQ91KQ"	"192.168.201.136" "IPv4"	37	6435934208	37	6435934208	"1"	8589393920
2016-06-30T07:42:18.016999936Z	0	0	6336745472	73.7740707397	"WIN-3VHAMFQ91KQ"	"192.168.201.136" "IPv4"	0	6336745472	0	6336745472	"1"	8589393920
2016-06-30T07:43:18.022Z	0	23	6372990976	74.1960525513	"WIN-3VHAMFQ91KQ"	"192.168.201.136" "IPv4"	23	6372990976	23	6372990976	"1"	8589393920
2016-06-30T07:43:31.590000128Z	0	17	6467723264	75.2989501953	"WIN-3VHAMFQ91KQ"	"192.168.201.136" "IPv4"	17	6467723264	17	6467723264	"1"	8589393920

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

4:41 PM 7/7/2016