

Server test: Setting environment

Docker Container:

1. Install docker
2. Influxdb and telegraf (Chronograf may be)
 1. we'll first create a new network called influxdb:
`$ docker network create influxdb`
Next, we'll start our InfluxDB container named influxdb:
`$ docker run -d --name=influxdb \`
`--net=influxdb \`
`influxdb`
 2. Starting Telegraf using the default config, which connects to InfluxDB at `http://localhost:8086/`:
`$ docker run -d --name=telegraf \`
`--net=influxdb \`
`-v /var/run/docker.sock:/var/run/docker.sock telegraf`
Use this command to test whether the configuration is successful.
`$ docker logs -f telegraf`

(We can now start a Chronograf container that references this database:

```
$ docker run -p 8888:8888 \
    --net=influxdb \
    chronograf --influxdb-url=http://influxdb:8086)
```

3. Configuration telegraf
 1. Sysstat plugin:
 Vim telegraf.conf -> `[[inputs.sysstat]] # Sysstat metrics collector`
 2. Docker plugin:
 Vim telegraf.conf -> `[[inputs.docker]] # Read metrics about docker containers`
 3. Test:
 `telegraf --config telegraf.conf --input-filter [plugin name] --test`
 4. Into influxdb container and check database:
 `docker exec -it [container_id] /bin/bash`
 Use this command: influx
4. Into the telegraf container:
 1. Start docker service
 `systemctl docker start`
 2. Look up container id
 `docker ps -a`
 3. Into the telegraf container
 `docker exec -it Container_ID /bin/bash`
 4. Install Python3 and sysbench
 `apt-get update`
 `apt-get install python3`

```
curl -s https://packagecloud.io/install/repositories/akopytov/sysbench/script.deb.sh |  
sudo bash  
sudo apt -y install sysbench  
python3 -V  
sysbench test
```

VM, PM:

1. Install Python3 and sysbench
2. Influxdb and telegraf

1. Influxdb

First add Influx series repository

CentOS:

```
cat <<EOF | sudo tee /etc/yum.repos.d/influxdb.repo  
[influxdb]  
name = InfluxDB Repository - RHEL  $\backslash$ $releasever  
baseurl = https://repos.influxdata.com/rhel/ $\backslash$ $releasever/ $\backslash$ $basearch/stable  
enabled = 1  
gpgcheck = 1  
gpgkey = https://repos.influxdata.com/influxdb.key  
EOF
```

EOF

Ubuntu:

```
wget -qO- https://repos.influxdata.com/influxdb.key | sudo apt-key add -  
source /etc/lsb-release  
echo "deb https://repos.influxdata.com/${DISTRIB_ID,,} ${DISTRIB_CODENAME}  
stable" | sudo tee /etc/apt/sources.list.d/influxdb.list
```

Install and start Influx and telegraf:

```
sudo apt-get update && sudo apt-get install influxdb  
sudo service influxdb start/ sudo systemctl start influxdb
```

```
sudo apt-get update && sudo apt-get install telegraf  
sudo service telegraf start / sudo systemctl start telegraf
```

3. Configuration telegraf

Sysstat and Procstat plugins:

```
Vim telegraf.conf -> [[inputs.sysstat]] # Sysstat metrics collector  
Vim telegraf.conf -> [[inputs.procstat]]
```

Test:

```
telegraf --config telegraf.conf --input-filter [plugin_name] --test
```

Into influx database and check:

Use this command: influx

The specific configuration of the telegraf plugin is in the telegraf folder.