Integrate Automation Performance Testing with Grafana

--- InfluxDB ---

1. Install InfluxDB using Docker container

`docker-compose.yml`

```
version: '3'
services:

  influxdb:
    image: influxdb:1.8
    container_name: influxdb
    restart: always
    ports:
      - 8086:8086
    volumes:
      - /etc/influxdb/influxdb:/var/lib/influxdb
      - /etc/influxdb/influxdb.conf:/etc/influxdb/influxdb.conf
```

`/etc/influxdb/influxdb.conf`

```
[meta]
  dir = "/var/lib/influxdb/meta"

[data]
  dir = "/var/lib/influxdb/data"
  engine = "tsm1"
  wal-dir = "/var/lib/influxdb/wal"
[http]
  # Determines whether HTTP endpoint is enabled.
  enabled = true

  # The bind address used by the HTTP service.
  bind-address = ":8086"
```

2. Create Database , Create User, Grant User to use database (1 project per 1 DB)

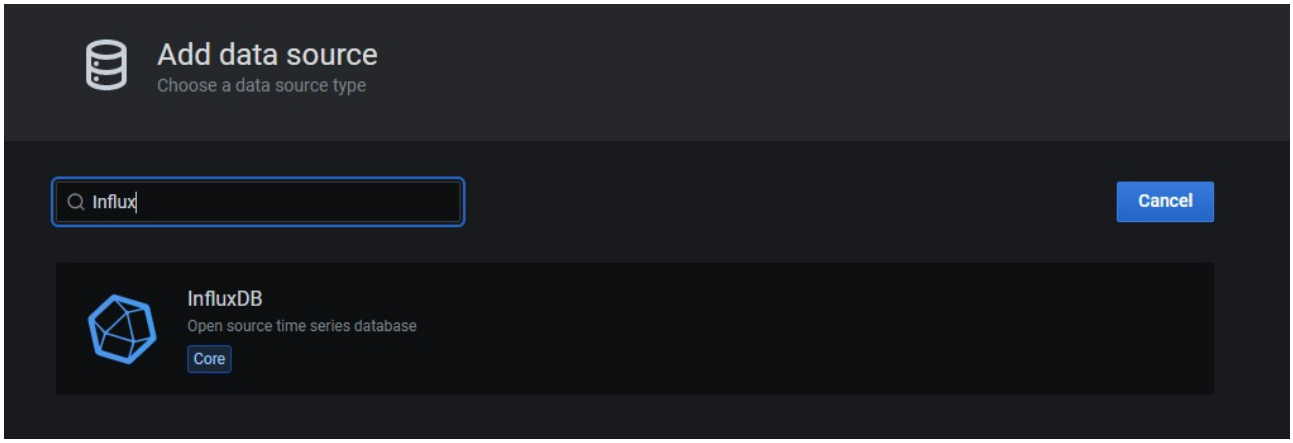
`$ docker exec -it influxdb /bin/bash`

```
root@eec2c79c7757:/# influx

> CREATE USER grafana WITH PASSWORD '<password>' WITH ALL PRIVILEGES
> CREATE DATABASE jmeter1
> GRANT ALL ON jmeter1 to grafana

> SHOW DATABASES
> SHOW USERS
```

```
>
> SHOW DATABASES
name: databases
name
----
_internal
jmeter
>
> SHOW USERS
user    admin
----    -----
grafana true
>
>
```

--- Grafana ---

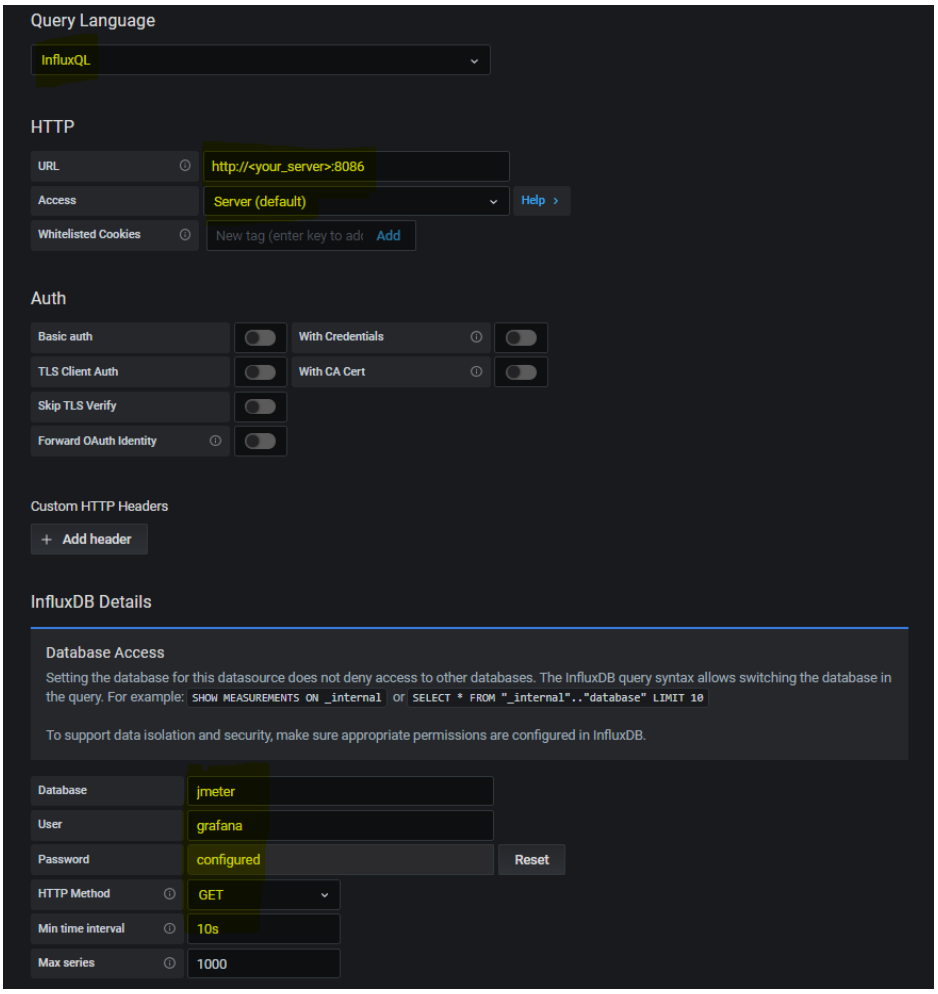
1. Add datasource from influxdb



Query Language: InfluxQL
URL: http://<yourserver>:8086

Turnoff all Auth

Database: jmeter
User: <DB_username>
Pass: <DB_password>
HTTP Method: GET



Click [Save & Test] to check connection

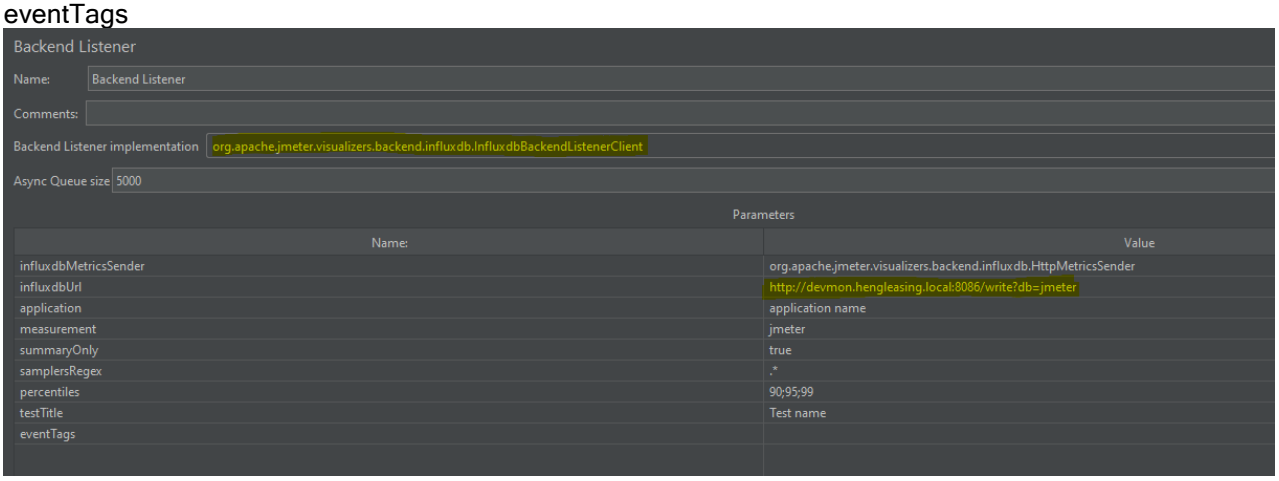
2. Add new Dashboard
Download JSON dashboard template from: https://grafana.com/grafana/dashboards/5496

--- jmeter ---

create .jmx script
1. Create your Test plan and Thread group
2. Create Backend Listener
Test Plan -> Add -> Listener -> Backend Listener

backend listener impletation: org.apache.jmeter.visualizers.backend.influxdb.InfluxdbBackendListenerClient

Parameters
influxdbMetricsSender: org.apache.jmeter.visualizers.backend.influxdb.HttpMetricsSender
influxdbUrl: http://<yourserver>:8086/write?db=<InfluxDB_Name>
application: application name
measurement: jmeter
summaryOnly: true
samplersRegex: .*
percentiles: 90;95;99
testTitle: Test name
eventTags



3. save jmx file and run performance test from anywhere