

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

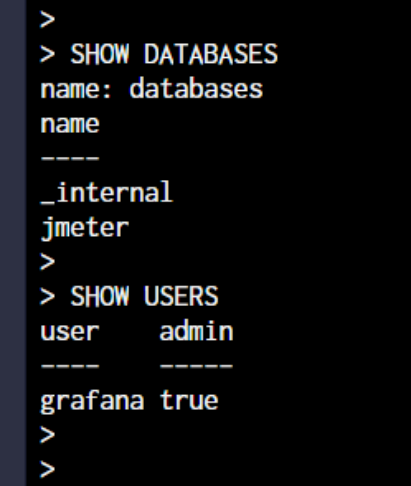
  # The bind address used by the HTTP service.
  bind-address = ":8086"
```

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

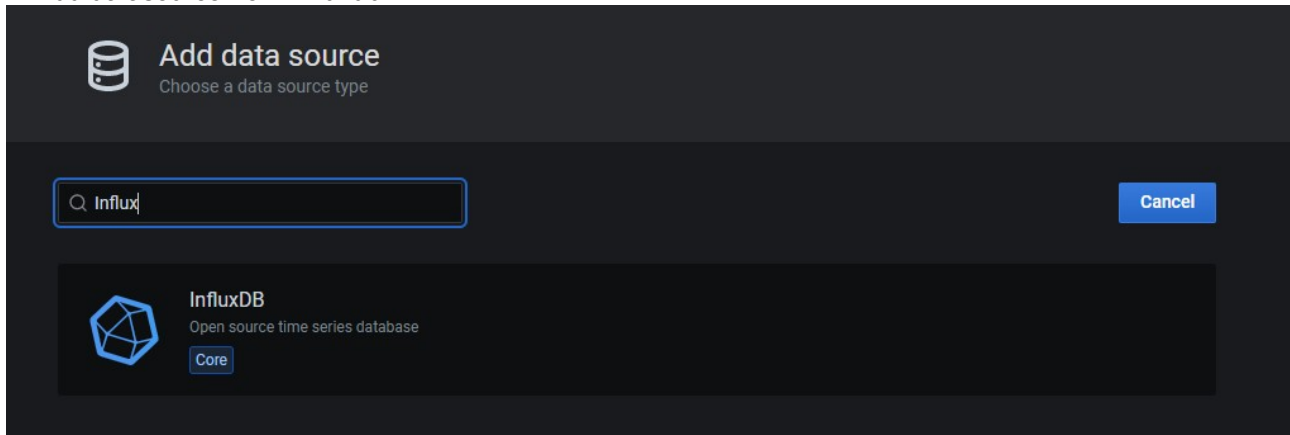
> SHOW DATABASES
> SHOW USERS
```



```
>
> 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**

The image shows the configuration screen for an InfluxDB datasource in Grafana. The 'Query Language' is set to 'InfluxQL'. Under the 'HTTP' section, the 'URL' is 'http://<your_server>:8086' and 'Access' is 'Server (default)'. The 'Auth' section has all options (Basic auth, TLS Client Auth, Skip TLS Verify, Forward OAuth Identity) turned off. The 'Custom HTTP Headers' section has an 'Add header' button. The 'InfluxDB Details' section contains a 'Database Access' warning and fields for 'Database' (jmeter), 'User' (grafana), and 'Password' (configured). The 'HTTP Method' is 'GET', 'Min time interval' is '10s', and 'Max series' is '1000'.

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 impleation: `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

Backend Listener	
Name:	Backend Listener
Comments:	
Backend Listener implementation	<code>org.apache.jmeter.visualizers.backend.influxdb.InfluxdbBackendListenerClient</code>
Async Queue size	5000
Parameters	
Name:	Value
influxdbMetricsSender	<code>org.apache.jmeter.visualizers.backend.influxdb.HttpMetricsSender</code>
influxdbUrl	<code>http://devmon.hengleasing.local:8086/write?db=jmeter</code>
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