

influxdb

```
curl -sL https://repos.influxdata.com/influxdb.key | apt-key add -
source /etc/lsb-release
echo "deb https://repos.influxdata.com/${DISTRIB_ID,,} ${DISTRIB_CODENAME}
stable" | tee -a /etc/apt/sources.list
apt update
apt install influxdb
```

enable admin service in /etc/influxdb/influxdb.conf and

```
systemctl restart influxdb
```

create database

```
root@graphite:~# influx
Connected to http://localhost:8086 version 1.2.1
InfluxDB shell version: 1.2.1
> create database captive
> CREATE USER "captive" WITH PASSWORD 'captive' WITH ALL PRIVILEGES
> show databases
name: databases
name
----
_internal
captive
>
```

test

```
curl -G http://carbon:8086/query --data-urlencode "q=SHOW DATABASES"
```

python test

```
from influxdb import InfluxDBClient
client = InfluxDBClient('carbon.csgalileo.org', 8086, username='captive',
password='captive', database='test')

json_body = [{"measurement": "browser", "tags": {"server":1, "server-
name":"galileo"}, "time": datetime.utcnow().strftime('%Y-%m-%dT%H:%M:%SZ'),
"fields": {"value":"ios"}}]
client.write_points(json_body)

client.query('select value from browser;')
```

retention

```
CREATE RETENTION POLICY "a_year" ON "test" DURATION 52w REPLICATION 1 SHARD
```

```
DURATION 168h  
CREATE RETENTION POLICY "a_week" ON "test" DURATION 168h REPLICATION 1 SHARD  
DURATION 24h DEFAULT
```

grafana

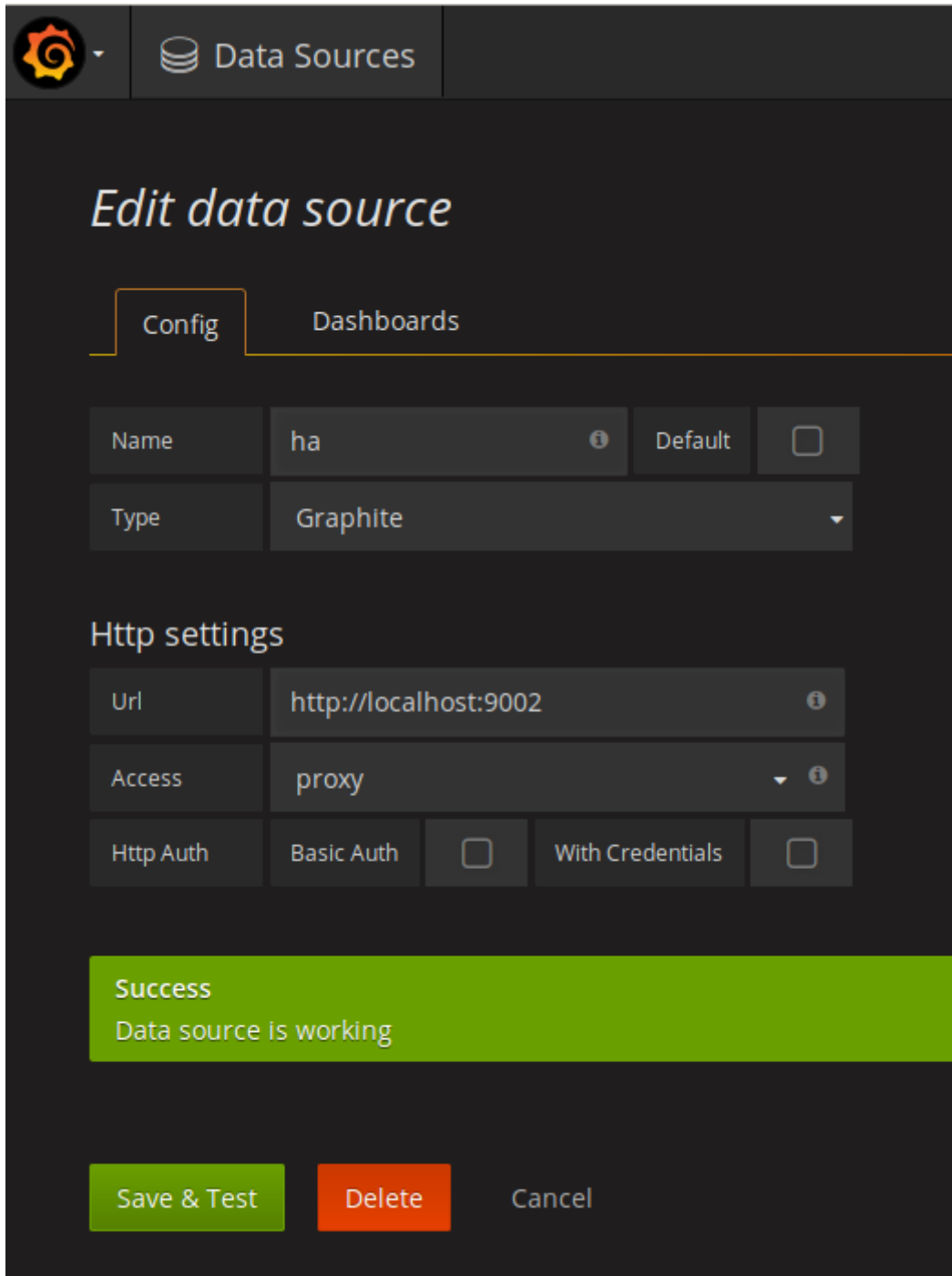
install

TODO

```
# per rasp  
cd /tmp  
wget https://github.com/fg2it/grafana-on-  
raspberrypi/releases/download/v4.6.1/grafana_4.6.1_armhf.deb  
dpkg -i grafana_4.6.1_armhf.deb  
  
systemctl enable grafana-server  
systemctl start grafana-server
```

Login to <http://localhost:3000> (admin/admin)

[add datasource](#)



The screenshot shows the 'Edit data source' configuration page in Grafana. The page has a dark theme. At the top, there is a navigation bar with a gear icon and the text 'Data Sources'. Below this, the main heading is 'Edit data source'. There are two tabs: 'Config' (which is active and highlighted with a yellow border) and 'Dashboards'. The configuration section includes a 'Name' field with the value 'ha', a 'Default' checkbox, and a 'Type' dropdown menu set to 'Graphite'. Under the 'Http settings' section, there is a 'Url' field with 'http://localhost:9002', an 'Access' dropdown set to 'proxy', and 'Http Auth' options for 'Basic Auth' and 'With Credentials', both with unchecked checkboxes. A green success message box at the bottom of the configuration area reads 'Success Data source is working'. At the very bottom, there are three buttons: 'Save & Test' (green), 'Delete' (orange), and 'Cancel' (grey).

plugins

Add plugin in `/var/lib/grafana/plugins/` directory

piechart

```
cd /var/lib/grafana/plugins/  
git clone https://github.com/grafana/piechart-panel.git  
systemctl restart grafana-server.service
```

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