

# carbon, graphite and grafana

## carbon

install carbon-cache service

```
apt-get install graphite-carbon
```

extend retention to 1 year

```
[carbon]
pattern = ^carbon\.
retentions = 60:90d

[default]
pattern = .*
retentions = 30s:7d,5m:30d,10m:1y,1d:10y
```

## graphite-web

web interface

```
apt-get install graphite-web
```

```
# choose user and password
python /usr/lib/python2.7/dist-packages/graphite/manage.py syncdb
```

adjust user and password and SECRETKEY (with random string) in `/etc/graphite/local_settings.py`

```
==== nginx ==== <code bash> apt install uwsgi uwsgi-plugin-python </code> <file ini
/etc/uwsgi/apps-enabled/graphite.ini> [uwsgi] vacuum = true master = true processes = 2 pidfile =
/tmp/uwsgi.pid socket = /tmp/uwsgi.sock chmod-socket = 666 gid = _graphite uid = _graphite chdir =
/usr/share/graphite-web wsgi-file = graphite.wsgi pymodule-alias =
graphite.localsettings=/etc/graphite/local_settings.py buffer-size = 65536 plugin = python </file>
```

```
systemctl restart uwsgi
```

[/etc/nginx/sites-enabled/graphite](#)

```
upstream graphite {
    server unix:///tmp/uwsgi.sock;
}

server {
    listen 9002;
    server_name localhost;
```

```
access_log /var/log/nginx/graphite-access.log;
error_log /var/log/nginx/graphite-error.log;

root /usr/share/graphite-web/static;

location / {
    add_header Access-Control-Allow-Origin "*";
    add_header Access-Control-Allow-Methods "GET, OPTIONS";
    add_header Access-Control-Allow-Headers "origin, authorization,
accept";

    uwsgi_pass graphite;
    include /etc/nginx/uwsgi_params;
}

location /media {
    # This makes static media available at the /media/ url. The
    # media will continue to be available during site downtime,
    # allowing you to use styles and images in your maintenance
page.
    alias /usr/lib/python2.7/dist-
packages/django/contrib/admin/media;
}
}
```

## grafana

### install

```
echo "deb https://packagecloud.io/grafana/stable/debian/ jessie main" >
/etc/apt/sources.list.d/grafana.list
curl https://packagecloud.io/gpg.key | sudo apt-key add -
apt update
apt install -y grafana
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. At the top, there is a navigation bar with the Grafana logo and 'Data Sources'. The main heading is 'Edit data source'. Below this, there are two tabs: 'Config' (which is active) and 'Dashboards'. The configuration fields are as follows:

Name	ha	<input type="checkbox"/>
Type	Graphite	
Http settings		
Url	http://localhost:9002	<input type="checkbox"/>
Access	proxy	<input type="checkbox"/>
Http Auth	Basic Auth	<input type="checkbox"/>
	With Credentials	<input type="checkbox"/>

A green success message banner reads: 'Success Data source is working'. At the bottom, there are three buttons: 'Save & Test' (green), 'Delete' (orange), and 'Cancel' (grey).

From: <https://wiki.csgalileo.org/> - Galileo Labs

Permanent link: <https://wiki.csgalileo.org/projects/internetofthings/graphite?rev=1487704730>

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