

# carbon, graphite and grafana

## carbon

install carbon-cache service

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

## 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 SECRET\_KEY (with random string) in `/etc/graphite/local_settings.py`

## nginx

```
apt install uwsgi uwsgi-plugin-python
```

[/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.local_settings=/etc/graphite/local_settings.py  
buffer-size = 65536  
plugin = python
```

```
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 Grafana 'Edit data source' configuration page. At the top, there is a navigation bar with the Grafana logo and 'Data Sources'. Below this, the title 'Edit data source' is displayed. There are two tabs: 'Config' (selected) and 'Dashboards'. The configuration section includes a table with the following fields: 'Name' (ha), 'Type' (Graphite), 'Default' (checkbox), 'Url' (http://localhost:9002), 'Access' (proxy), 'Http Auth' (Basic Auth), and 'With Credentials' (checkbox). A green success message states 'Success Data source is working'. At the bottom, there are three buttons: 'Save & Test' (green), 'Delete' (orange), and 'Cancel' (grey).

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