Read the Docs Template Documentation

Release 1.0

Read the Docs

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Getting Started

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CHAPTER 1

Intro

1.1 Overview

This script is for building a basic tile server with OpenStreetMap data

1.2 Features

- Load OSM Data
- Load OSM data (city, country, continent or planet).
- Postgres, PostGIS, and osm2pgsql
- Installs Postgres, PostGIS, and osm2pgsql.
- Installs and configures Apache for http or https
- Mapnik, mod_tile, and renderd
- OSM-carto or OSM-bright
- OpenLayer and Leaflet example page.

1.3 Authors

- David Ghedini
- Kaloyan Petrov
- Cited, Inc

1.4 Components

https://www.openstreetmap.org

http://www.geofabrik.de/

http://mapnik.org/

http://openlayers.org/

http://leafletjs.com

http://www.postgresql.org/

http://postgis.net/

https://github.com/gravitystorm/openstreetmap-carto

https://github.com/mapbox/osm-bright

CHAPTER 2

Installation and Usage

This script is for building a basic tile server with OpenStreetMap data.

For us only on a clean Ubuntu 20 install.

Be sure to review the "Using SSL" section below if you plan to enable SSL.

2.1 Installation

Step 1: Get opentileserver.sh script from GitHub:

```
wget https://raw.githubusercontent.com/AcuGIS/OpenTileServer/master/opentileserver-
↪ubuntu-20.sh
```

Step 2: Make it executable:

```
$ chmod 755 opentileserver-ubuntu-20.sh
```

Step 3 (for non-Latin alphabet)

If using a non-Latin alphabet, ucomment line 24 below if needed:

```
$ export LC_ALL=C
```

Step 4: Run the script:

```
$ ./opentileserver-ubuntu-20.sh  [web|ssl] [bright|carto] pbf_url
```

2.2 Options

```
[web|ssl]: 'web' for http and 'ssl' for https
[bright|carto]: 'carto' for openstreetmap-carto or 'bright' for openstreetmap-bright
pbf_url: Complete PBF url from GeoFabrik (or other source)
```

2.3 Examples

Load Delaware data with openstreetmap-carto style and no SSL:

```
$ ./opentileserver-ubuntu-20.sh web carto http://download.geofabrik.de/north-america/
↪us/delaware-latest.osm.pbf
```

Load Bulgaria data with openstreetmap-bright style and SSL:

```
$ ./opentileserver-ubuntu-20.sh http://download.geofabrik.de/europe/bulgaria-latest.
↪osm.pbf bright
```

Load South America data with openstreetmap-carto style and SSL:

```
$ ./opentileserver-ubuntu-20.sh ssl carto http://download.geofabrik.de/south-america-
↪latest.osm.pbf
```

2.4 Using SSL

If you select the ssl option and wish to use LetsEncrypt, be sure to do the following:

1. Check hostname is set properly. You can set the hostname using hostnamectl as below:

   ```
   hostnamectl set-hostname domain.com
   ```

2. Run the script, which will provision a dummy SSL certificate.
3. Once script completes, enable Python Certbot Apache plugin:

   ```
   apt-get -y install python3-certbot-apache
   ```

4. Request a certificate using below:

   ```
   certbot --apache --agree-tos --email hostmaster@domain.com --no-eff-email -d␣
   ↪domain.com
   ```

5. select the option “2: Redirect - Make all requests redirect to secure HTTPS access”:
6. Restart Apache

2.5 Welcome Page

Once installation completes, navigate to the IP or hostname of your server.

You should see a page as below:

Click on both the OpenLayer and Leaflet Examples and check your installation is rendering

Note: Zoom is automatically set on the leaflet demo application. On the OpenLayers demo application you will need to zoom to the area.

Produced by AcuGIS

https://www.acugis.com/opentileserver

Cited, Inc.

Wilmington, Delaware

https://citedcorp.com

2.6 Contribute

- Issue Tracker: github.com/AcuGIS/OpenTileServer/issues
- Source Code: github.com/AcuGIS/OpenTileServer

2.7 Support

If you are having issues, please let us know. We have a mailing list located at: project@google-groups.com

2.8 License

The project is licensed under the BSD license.

CHAPTER 3

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