

Gisaf - Support #6907

Study alternative for TileServer

12/10/2018 15:54 - Philippe May

Status:	New	Start date:	12/10/2018
Priority:	Low	Due date:	
Assignee:	Philippe May	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
TileServer is not very FOSS friendly:			
<ul style="list-style-type: none">the free mbtiles files are old (more than 1 year from OSM), paid versions otherwiseTileServer software itself is not well maintained, as it depends from node 6 (current: version 10) *			

Associated revisions

Revision 24426a88 - 19/10/2018 12:00 - Philippe May

Refs #6907: MBTiles server

Revision 81b3a4f3 - 27/10/2018 16:04 - Philippe May

Refs #6907 (tile server): add static_tiles_url for statically hosted mbtiles;

History

#1 - 12/10/2018 15:58 - Philippe May

Alternative for getting mbtiles: generation from osm data

Download from an OSM mirror:

```
curl -O http://download.openstreetmap.fr/extracts/asia/india/tamil_nadu.osm.pbf
curl -O http://download.openstreetmap.fr/extracts/asia/india/puducherry.osm.pbf
```

Generation of mbtiles:

OGR (GDAL)

1. Takes a long time/CPU
2. Can process only 1 file (see ogr2ogr for merging files beforehand)

```
## Need to generate a single .osm.pbf files
ogr2ogr -f MBTILES target.mbtiles tamil_nadu.osm.pbf -dsco MAXZOOM=15
```

Alternative for serving mbtiles

mbtiles-server

Source: <https://github.com/tobinbradley/mbtiles-server>

Tegola

Source: <https://github.com/go-spatial/tegola>

Python

Looks easy, there are libraries for mbtiles (TileStache: <http://tilestache.org/>).

But, not found any quick and easy solution for serving to mapbox-gl.

#2 - 13/10/2018 18:08 - Philippe May

Another option: generate static .pbf files using gdal's MVT provider:

```
ogr2ogr -s_srs EPSG:4326 -t_srs EPSG:3857 -a_srs EPSG:3857 -f MVT /usr/local/lib/gisaf_misc/tiles tamil_nadu.o  
sm.pbf -dsco MAXZOOM=14
```

The tiles are the same than those generated with MBTILES (used by eg. tileserver), in a proper directory structure that can be served by nginx. The metadata.json file is almost same that what tileserver exposes for mapbox-gl, but needs to be cleaned.

#3 - 11/02/2019 16:33 - Philippe May

- Assignee set to Philippe May

#4 - 07/03/2019 16:25 - Philippe May

- Priority changed from Normal to Low

#5 - 11/01/2020 10:03 - Philippe May

Tried tegola:

imposm with <https://github.com/go-spatial/tegola-osm> config.

Got it to work, but the CPU/RAM/storage usage is very high for generating mbtiles from a PostGIS DB.

➤ ~~tegola~~

#6 - 11/01/2020 11:45 - Philippe May

Comprehensive list of related tools: <https://github.com/mapbox/awesome-vector-tiles#cli-utilities>

tilemaker (<https://github.com/systemed/tilemaker>) worth trying (got compilation error related to protobuf in first try)