



Architecture

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title and summary

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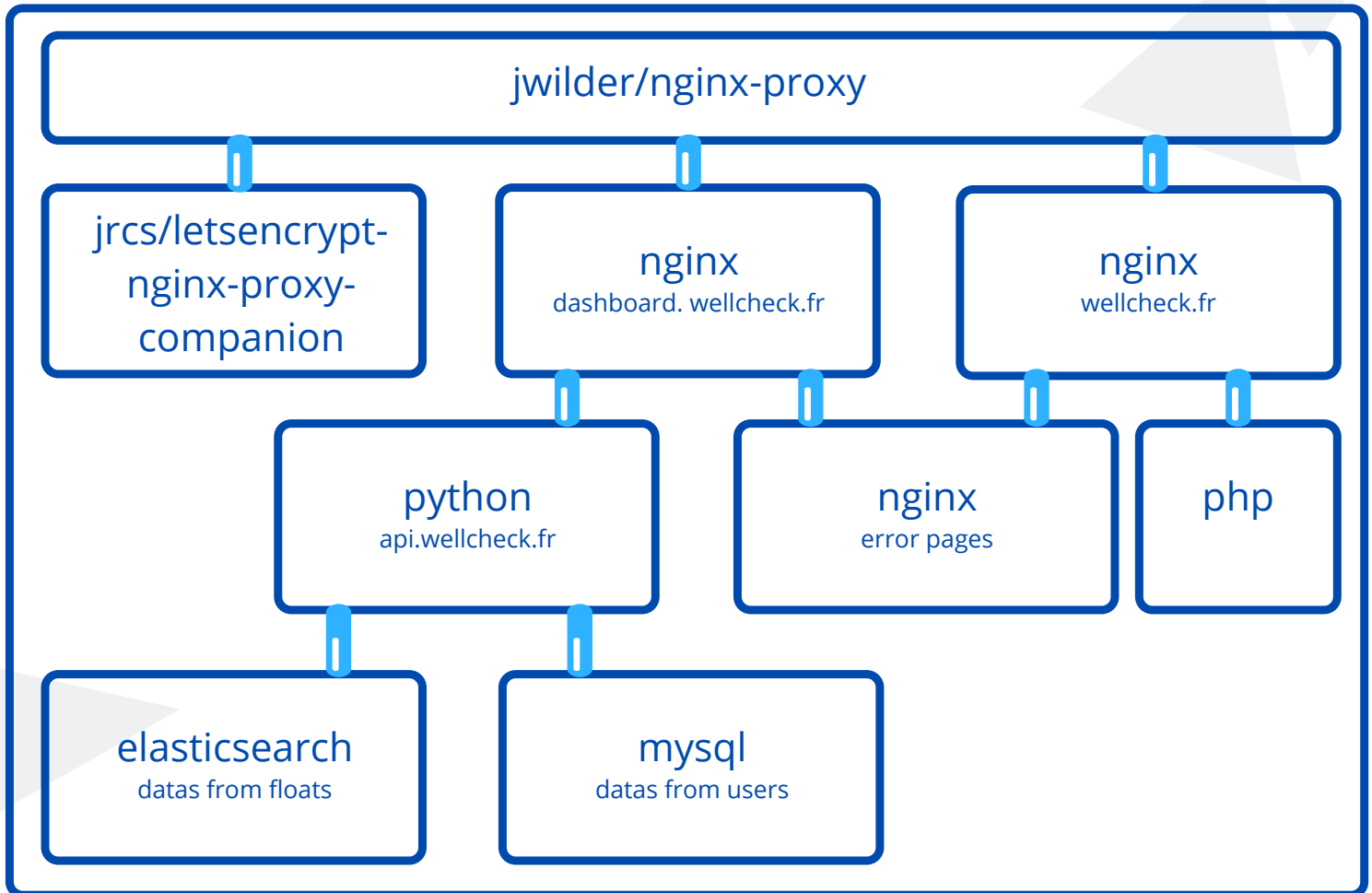
wellcheck.fr/documentation





All the architecture is powered using docker and docker-compose on a single server this allow us to expand in the future simply by scaling, deploying or developping much faster than in an usual local environnement

server#1





1/ Containers overview

Each docker got a special function:

- **jwilder/nginx-proxy :**
global reverse proxy linking to the WWW
- **jrcs/letsencrypt-nginx-proxy-companion :**
handles the automated creation, renewal and use of Let's Encrypt certificates
- **nginx (wellcheck.fr) :**
serve the differents pages from wellcheck.fr
- **php :**
allow the execution of php code from wellcheck.fr
- **nginx (dashboard.wellcheck.fr):**
serve the client webapp allowing the user to monitor his account & float(s)
- **nginx (error pages) :**
serve custom error pages
- **python (api.wellcheck.fr) :**
allow the execution of the wellcheck's API for webapp & phoneapp
- **elasticsearch :**
store datas from the float allowing fast query & flexibility
- **mysql:**
store datas from users



2/ Containers interactions

Dockers interactions:

- jwilder/nginx-proxy :

nginx (wellcheck.fr)
nginx (dashboard.wellcheck.fr)
python (api.wellcheck.fr)

- jrcs/letsencrypt-nginx-proxy-companion :

jwilder/nginx-proxy

- nginx (wellcheck.fr) :

php
nginx (error pages)

**- php : **

- nginx (dashboard.wellcheck.fr):

python (api.wellcheck.fr)

**- nginx (error pages) : **

- python (api.wellcheck.fr) :

elasticsearch
mysql

**- elasticsearch : **

**- mysql: **



3/ Virtuals networks

There are two main networks allowing us handle acces right,
The front network (*proxy*) (green) is accessible directly from the jwilder/nginx-proxy container (main acces to the server)
The back-end network (*back-net*) (red) only contain databases container must be accessed by the python (api) container

server#1

