**Easy install/deploy QGIS Server and Lizmap Web Client on MS Windows**

Credits: João Gaspar, <https://github.com/jonnyforestGIS>

Last Tested on: QGIS Server 3.22.6 LTR + LizMap Web Client 3.4.11

⚠️**Warning for Portuguese Users**⚠️: If you use the application for Cartão de Cidadão Autenticação GOV, we found a issue that breaks the QGIS and QGIS Server instalation. Please check [amagovpt/autenticacao.gov#88](https://github.com/amagovpt/autenticacao.gov/issues/88)

The following steps assume that the user will keep the suggested installation/deploy paths. If there is the necessity to use custom installatin/deploy paths then a number of configuration files (Apache, PHP) will need to be modified. This guide also assumes that on the Windows machine being used there aren't any other programs/services running on port 80.

1. Download the OSGeo4W installer: <https://download.osgeo.org/osgeo4w/v2/osgeo4w-setup.exe>
2. Install the packages "qgis-ltr", "qgis-ltr-server" and "fcgi", let the installer manage the installation of dependencies
3. Copy the "webserver" folder inside the C: drive
4. Start the Apache web server by running **as administrator** (right click > run as administrator) the file

C:\webserver\Apache24\bin\httpd.exe

1. As option Apache can be installed as Windows service by running (from the Windows console, launched as administrator) the following command:

C:\webserver\Apache24\bin\install-server.bat

After that Apache can be started/stopped from the Windows Services control panel or from the Windows console using the command (as administrator):

C:\webserver\Apache24\bin\start-server.bat

1. Open a browser and test if Apache works:

http://localhost

1. Test if PHP works:

http://localhost/info.php

1. Test if QGIS Server works:

http://localhost/qgis/qgis\_mapserv.fcgi.exe

1. Test if Lizmap Web Client works:

http://localhost/lizmap/lizmap/www/index.php

1. On a completely clean Window 10 machine you can get an error message about missing some library. If is the case just download and install them from the MS web site: <https://www.microsoft.com/en-us/download/details.aspx?id=52685>