Pharmadex 2 Deployment Guide

Contents

[Objective 1](#_Toc92996403)

[Pre-conditions 1](#_Toc92996404)

[Pharmadex 2 binary distribution 2](#_Toc92996405)

[Steps to deploy 2](#_Toc92996406)

[Prepare to install 2](#_Toc92996407)

[Configure 2](#_Toc92996408)

[Local TCP/IP port 2](#_Toc92996409)

[Database 2](#_Toc92996410)

[Logs 2](#_Toc92996411)

[Google Authentication 3](#_Toc92996412)

[Install as a service 4](#_Toc92996413)

[Provide access from Internet 4](#_Toc92996414)

# Objective

This document helps deploy Pharmadex 2 software first time, along with the demo database.

The audience of it is IT persons that are responsible to install and maintain the Pharmadex 2 software. Minimal qualification requirements are:

* Ability to install and configure programs and components in the selected Operation System.
* The MySQL knowledge.

## Pre-conditions

Regardless of deployment configuration selected, the following pre-conditions should be fulfilled:

* At least 2 GB of free RAM
* At least 10GB of free SDD/HDD
* Operation Systems:
  + Windows Server 2016 and above
  + Windows 10
  + Linux, released after 2018. Tested on Ubuntu 18.04.4 LTS and above
* MySQL R 5.7
  + Server
  + Workbench
* Oracle Java JDK 1.8. OpenJDK 1.8 has been tested on Linux Ubuntu, but not Windows
* Internet connection. Properties of it should suit minimal requirements for Google Mail
* Binary Pharmadex 2 distribution (see below)
* Pharmadex 2 demo database (https://github.com/MSH/Pharmadex2/tree/main/database[[1]](#footnote-1))
* The own, private Google Mail account

## Pharmadex 2 binary distribution

The possibility to build the Pharmadex 2 software directly from the source codes is possible, however is not covered by this document. However, this manual describes deployment from the binary distribution. For current, the MSH staff may get this distribution from the corporative GitHub, address is

The descriptions of binary components may be found in the respective file README.md

# Steps to deploy

## Prepare to install

1. Install using the vendor’s deployment manual:
   1. MySQL
   2. Java JDK 1.8
2. Restore the demo database to MySQL using MySQL Workbench or the command line
3. Copy the binary application pharmadex2-0.0.1.jar and application.properties to the dedicated folder, e.g. applications/pharmadex2

## Configure

## Local TCP/IP port

In the application.properties file edit the values marked bold (if it will be necessary):

### Database

In the application.properties file edit the values marked bold:

spring.datasource.url = jdbc:mysql://localhost/pdx2?useSSL=false&useUnicode=yes&characterEncoding=UTF-8&characterSetResults=UTF-8&**serverTimezone=Europe/Kiev**

spring.datasource.username = **username**

spring.datasource.password = **password**

### Logs

In the application.properties file edit the values marked bold:

logging.file.path=/**home/alexk/pharmadex/log**

the good choice is:

**logging.file.path= ./log/**

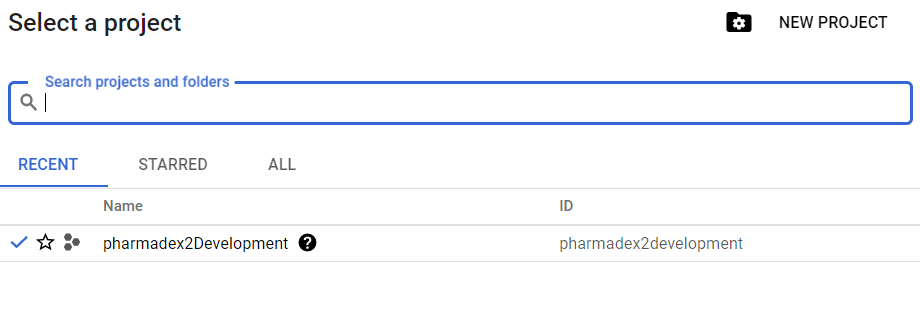
### Google Authentication

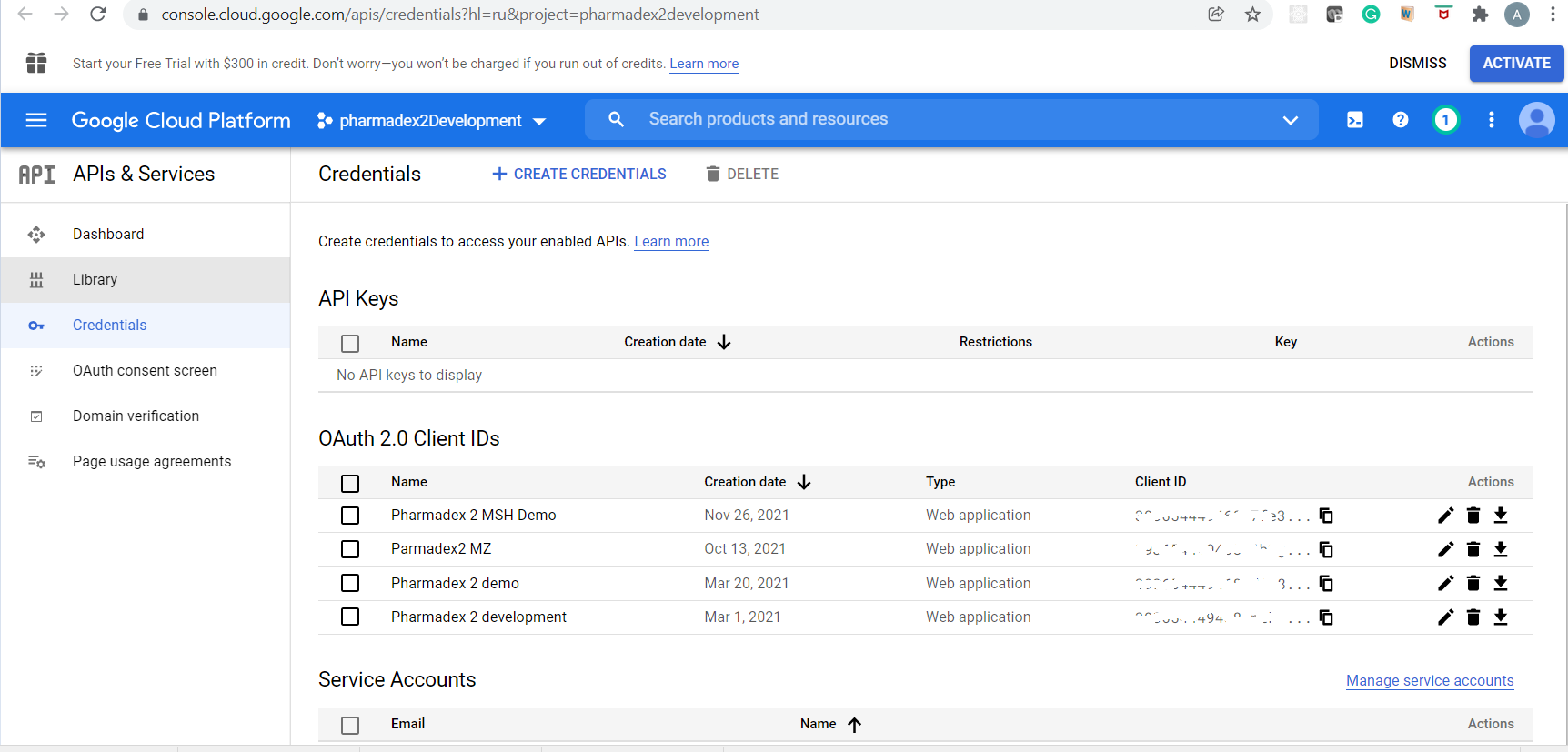
The Pharmadex 2 uses OATH2[[2]](#footnote-2) to allow authenticate using Google login. For each deployment, the Google Authentication should be configured separately.

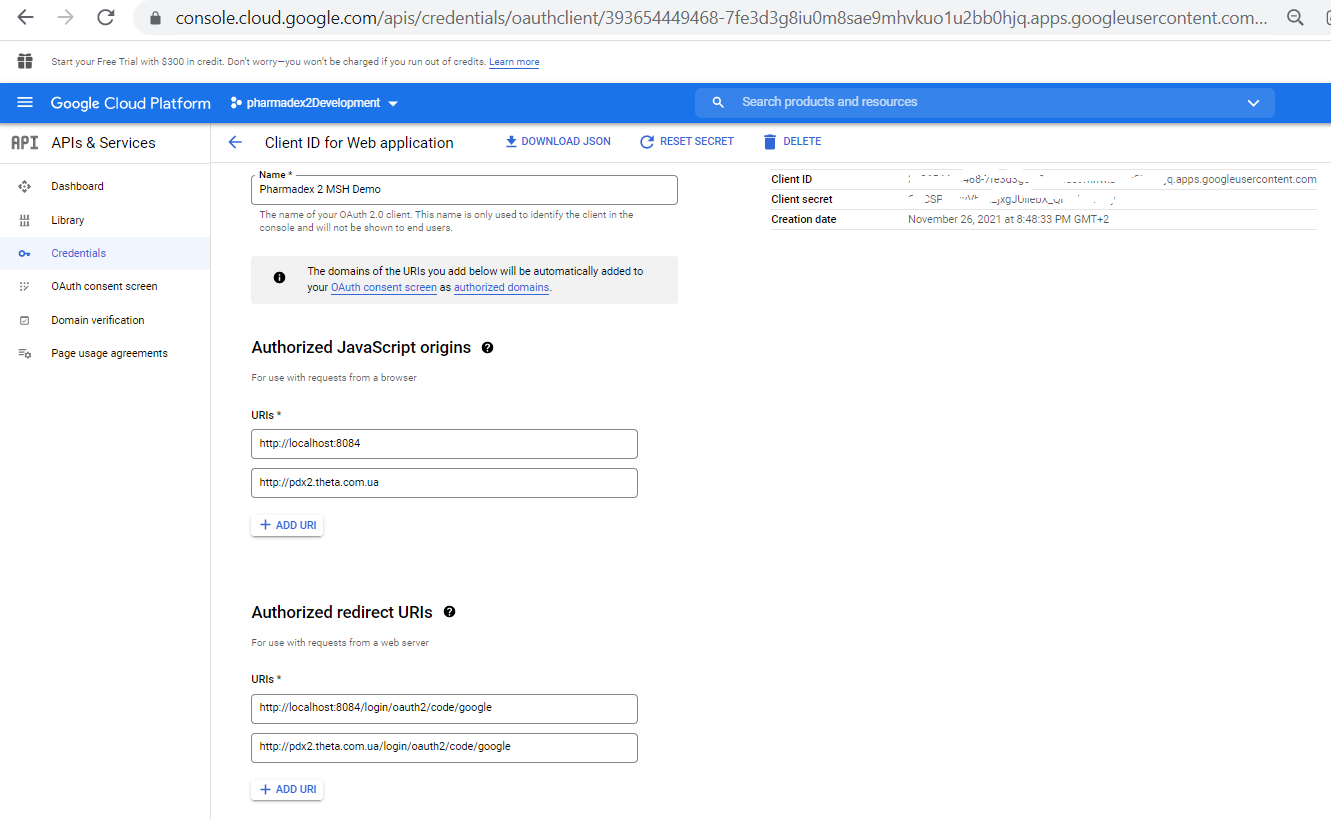
The original Google guide is here. The application type is Web Application

<https://developers.google.com/adwords/api/docs/guides/authentication>

The process is cumbersome, thus below screens from the current configuration







After configuration it will be necessary to copy Client ID and Client secret to the application.properties

## OATH2

spring.security.oauth2.client.registration.google.client-id=client\_id

spring.security.oauth2.client.registration.google.client-secret=client\_secret

## Install as a service

For Linux the official guide is here https://docs.spring.io/spring-boot/docs/current/reference/html/deployment.html#deployment.installing.nix-services.system-d

For Windows the official guide is here https://docs.spring.io/spring-boot/docs/current/reference/html/deployment.html#deployment.installing.windows-services

Examples of the configurations are in the binary distributive. The folders are “windows” and “Linux”.

## Provide access from the Internet

To provide access from the Internet it will be a good idea to establish a proxy gateway like Nginx or Apache2. The example of virtual server configuration for Apache 2 is in the binary distributive, folder “Linux”.

1. For current, available only to MSH staff [↑](#footnote-ref-1)
2. The theory is here <https://developers.google.com/identity/protocols/oauth2> The Pharmadex 2 uses the web-server applications scenario. [↑](#footnote-ref-2)