Keycloak installation guide

IOp - Hub

Exported on May 30, 2018

Last update: 05 Apr 2018

Previous instructions:

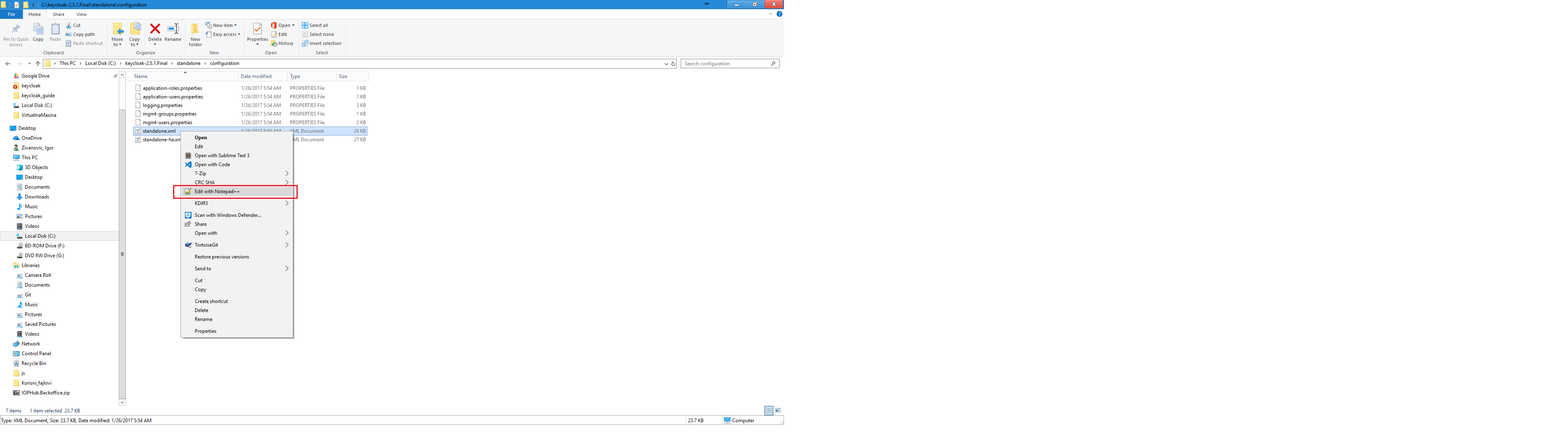
<https://confluence.kapschtraffic.com/display/IOPHUB/05+Keycloak>

<https://confluence.kapschtraffic.com/display/IOPHUB/Keycloak%3A+How+to+enable+CORS>

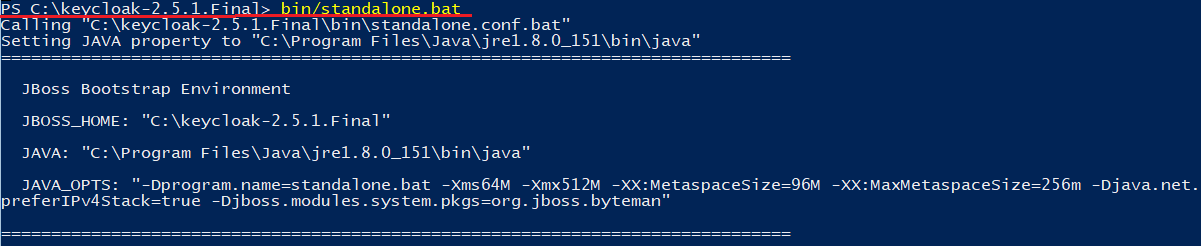
* Download Keycloak v2.5.1 by following link: <https://downloads.jboss.org/keycloak/2.5.1.Final/keycloak-2.5.1.Final.zip>
* Unpack to Download folder and keep those files
* Copy folder ‘keycloak-2.5.1.Final ‘ to ‘C:\’
* If you have port :8080 already taken by some other app, go to ‘C:\keycloak-2.5.1.Final\standalone\configuration\standalone.xml’, go to the bottom of the file and change port from default :8080 value, to some other (e.g. :8081) and **save file.** In order to make it work, you need to **change port** value to 8081 in this file: **"C:\IOPHUB\iophub\Sources\IOPHub.Backoffice\src\app\components\\_core\authorization.service.ts"**

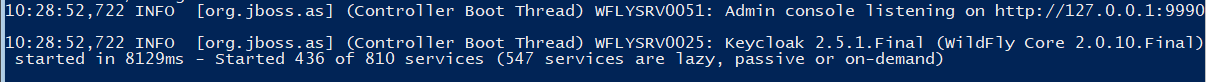


* Go to C:\keycloak-2.5.1.Final and press SHIFT+right click. From context menu select ‘Open Powershell window here’

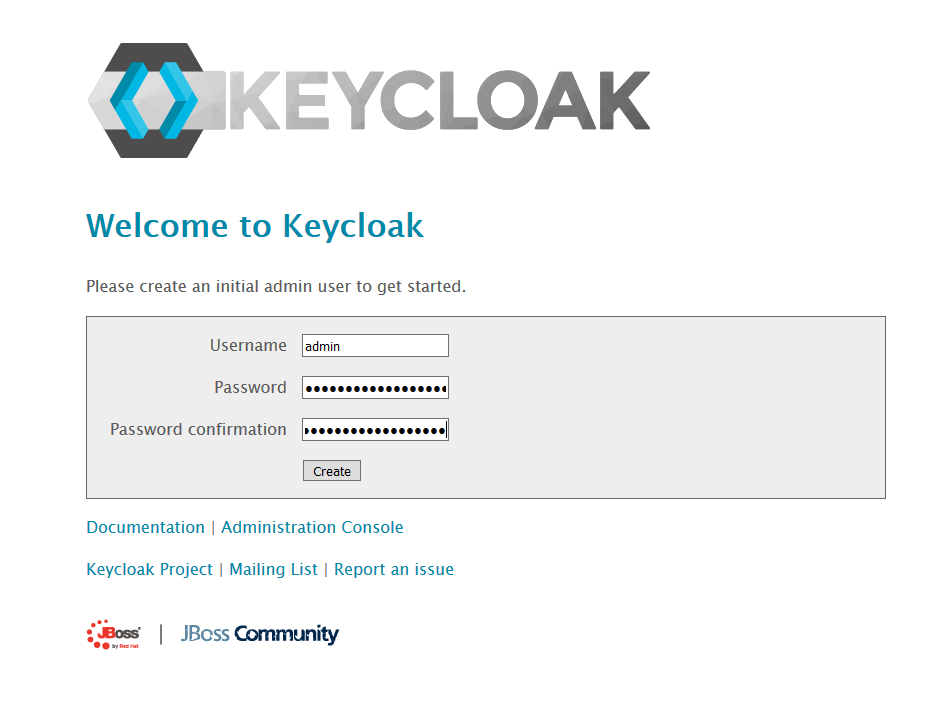


* Type command: bin/standalone.bat… This will run keycloak Administration console. Wait for 60 seconds to let it boot up. Check if there are some errors - you should have only INFO sentences. You can always stop it by pressing CTRL+C, and answer ‘y’

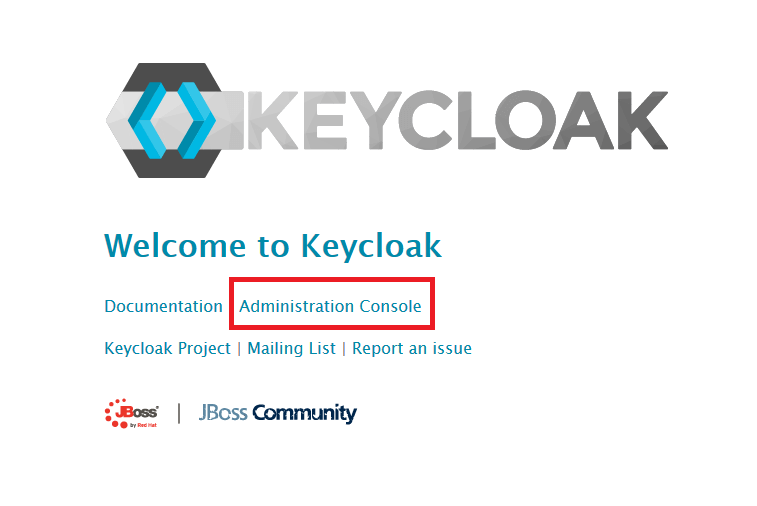




* Look for ‘localhost:8080/auth’ in your browser
* Create admin user username: admin, password: hsnq2Gg0uWSJ1PjhTt0o, and save credentials



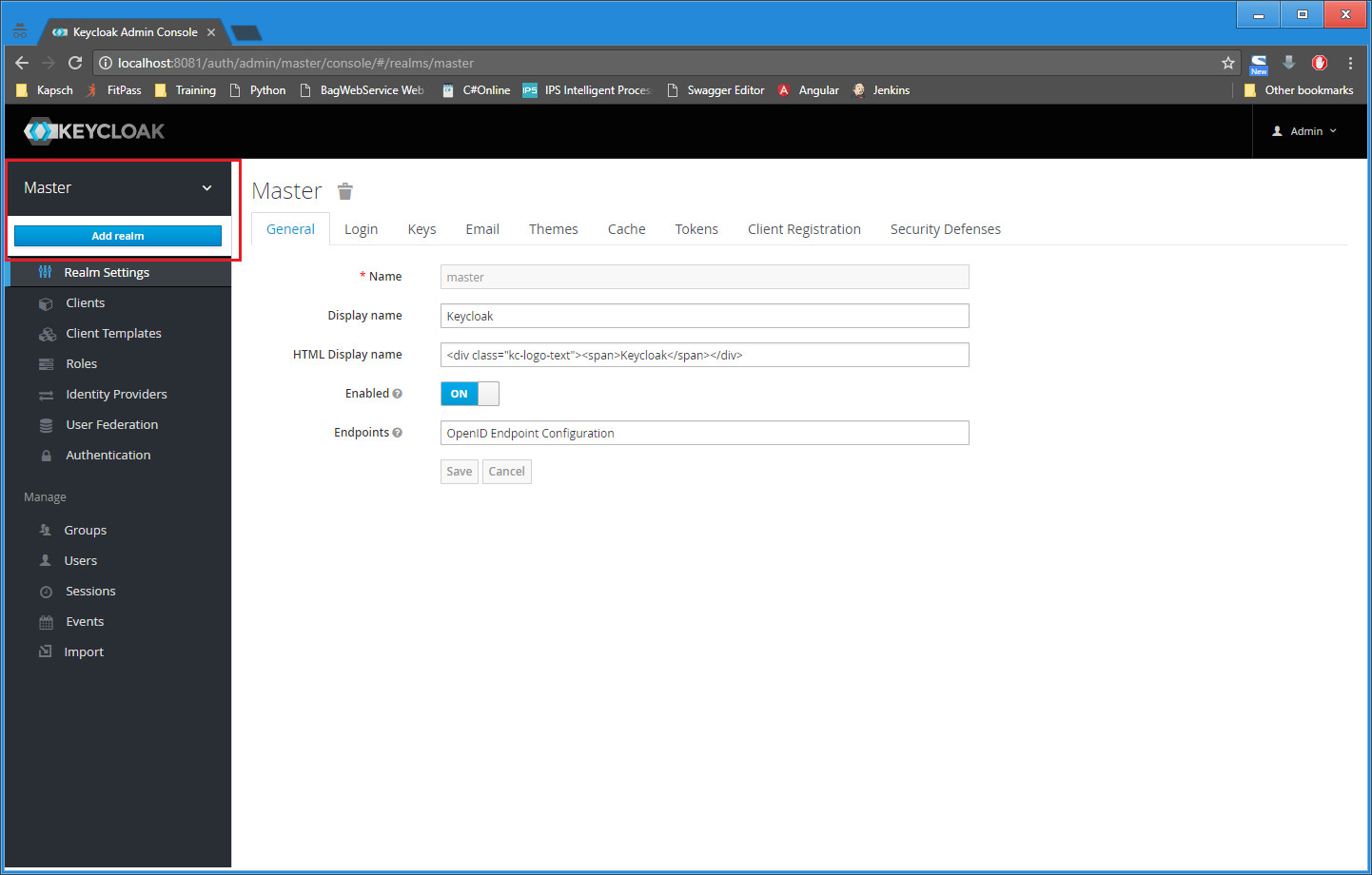
* Open Administration console



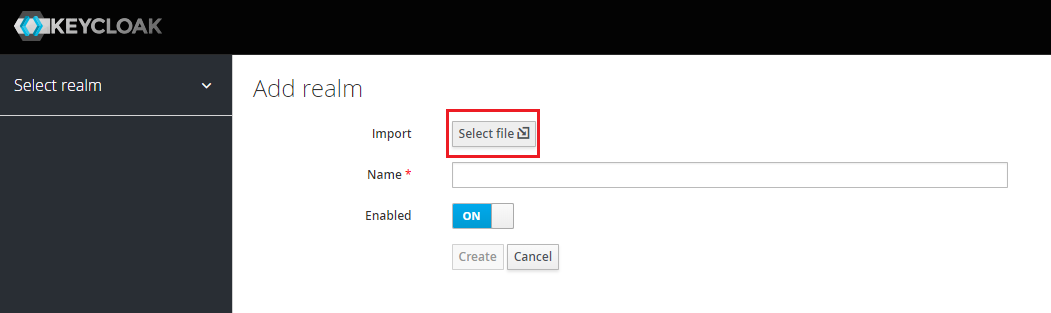
* Login with username: admin, password: hsnq2Gg0uWSJ1PjhTt0o



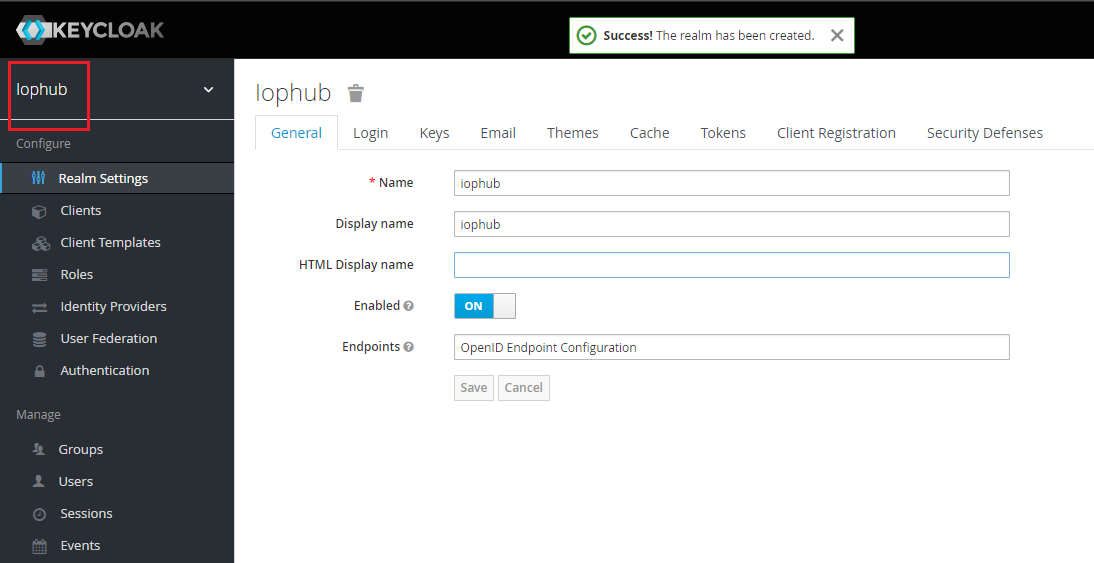
* On top left corner look for Master realm. Next to it press on arrow down sign and select ‘Add realm’ option



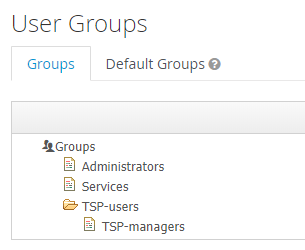
* Following screen will appear. Navigate to ‘**Sources\configs\keycloak**’ folder in GIT repository or in ‘**Sources'** folder in the release. Look for ‘**keycloak-realm\_iophub.json**’.



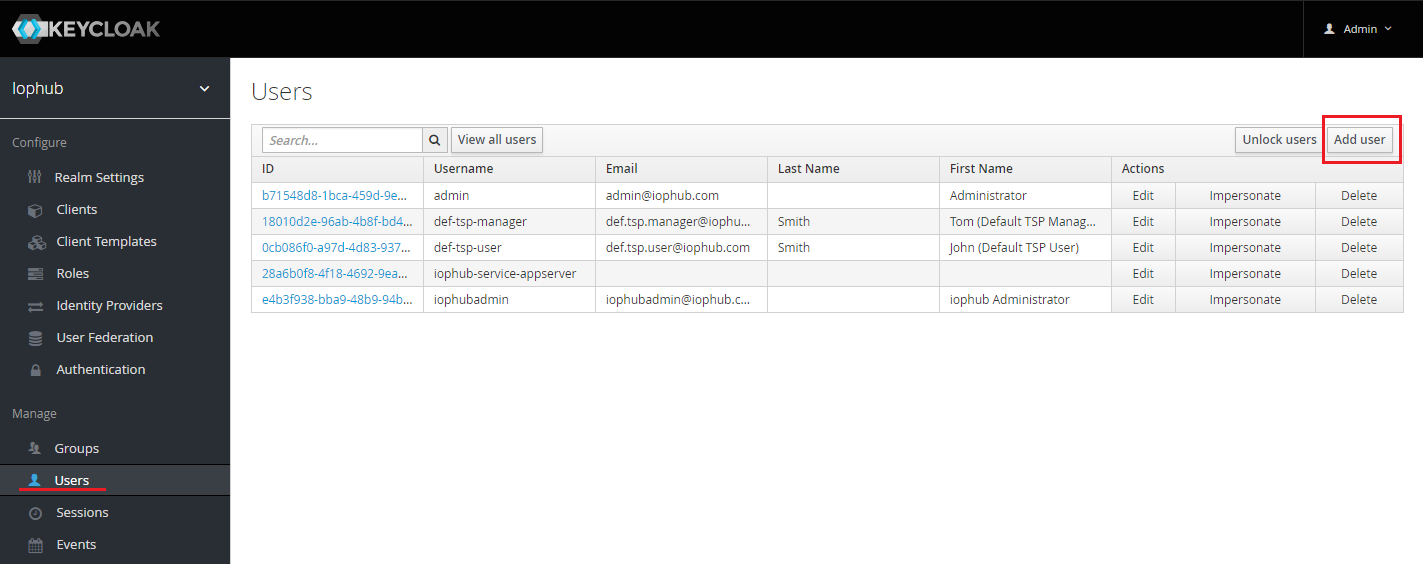
* Select file to import and press ‘Create’. You will get a message that realm is created



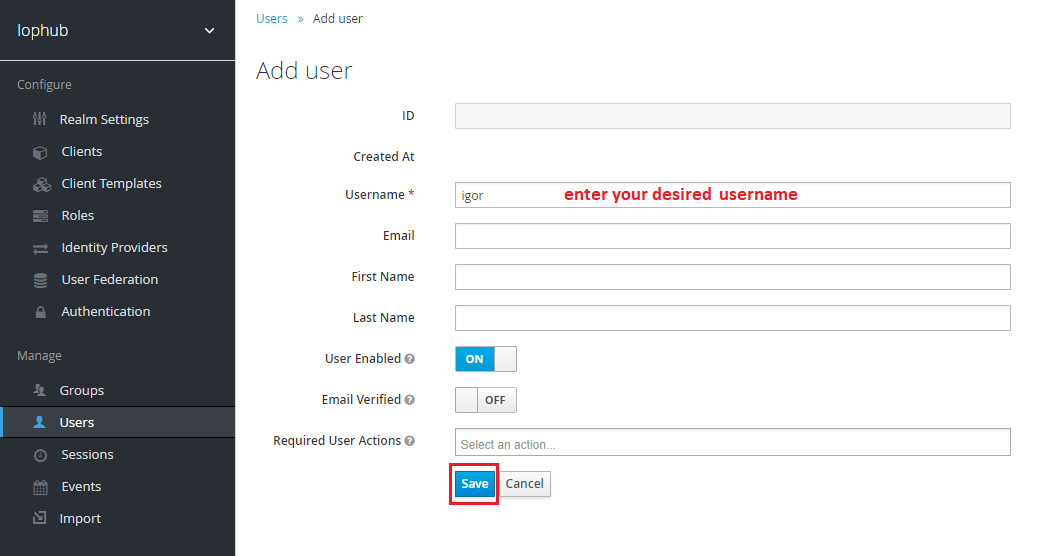
* Go to Groups and check if you have user groups like this:



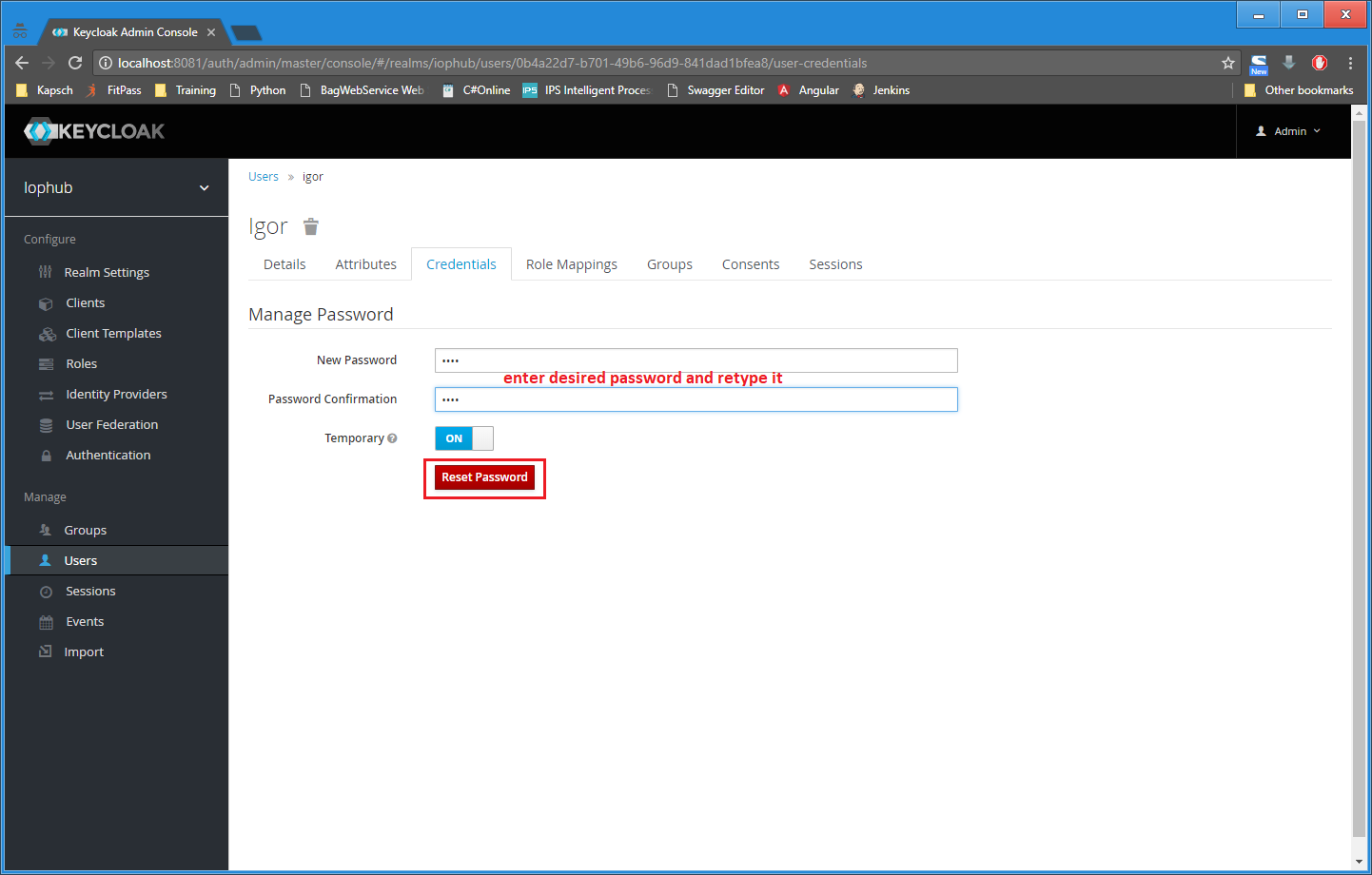
* Go to users section. Press ‘View all users’ to check existing users
* Press ‘Add user’



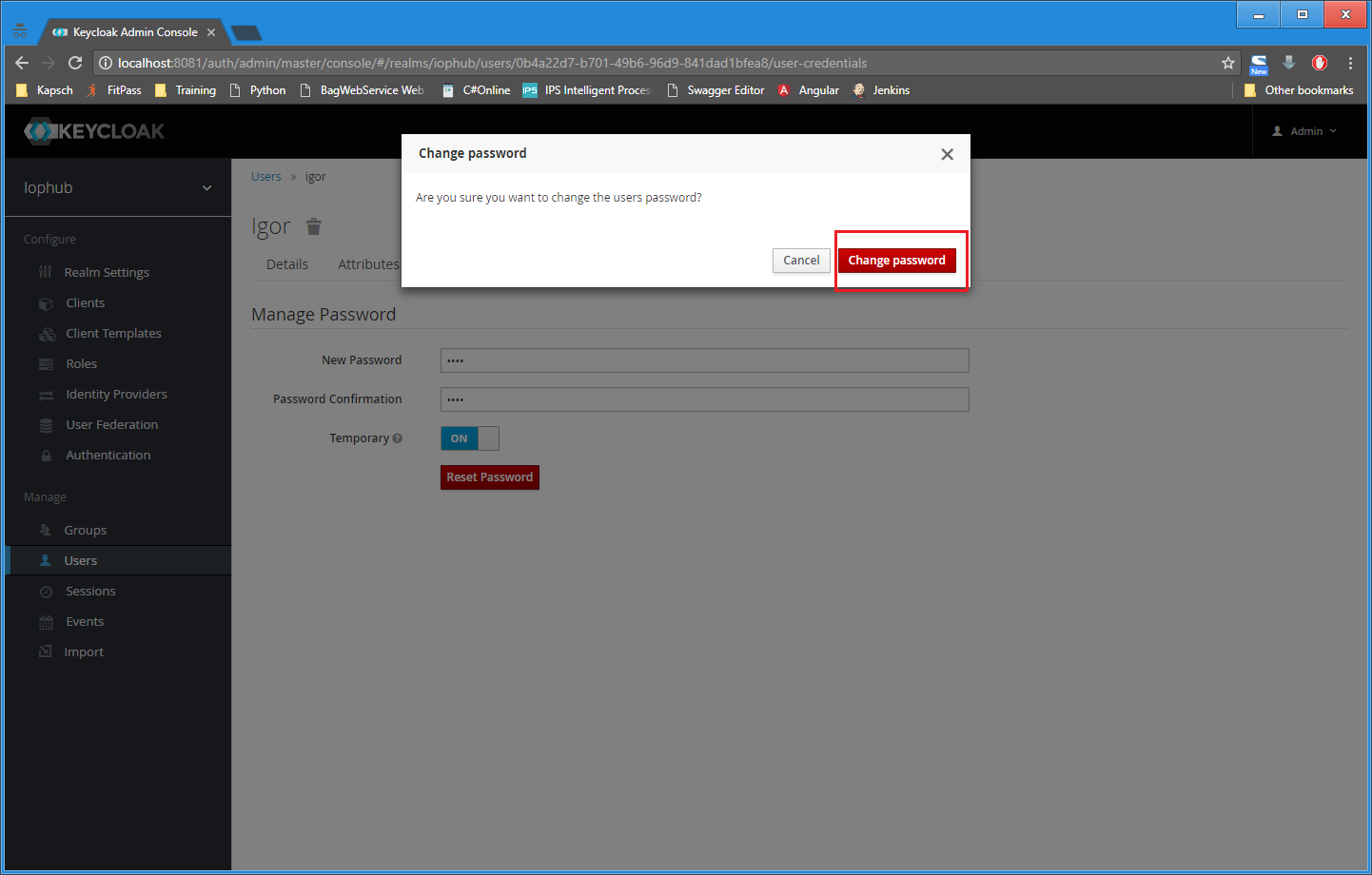
* Enter desired username and press ‘Save’. You will get confirmation message.



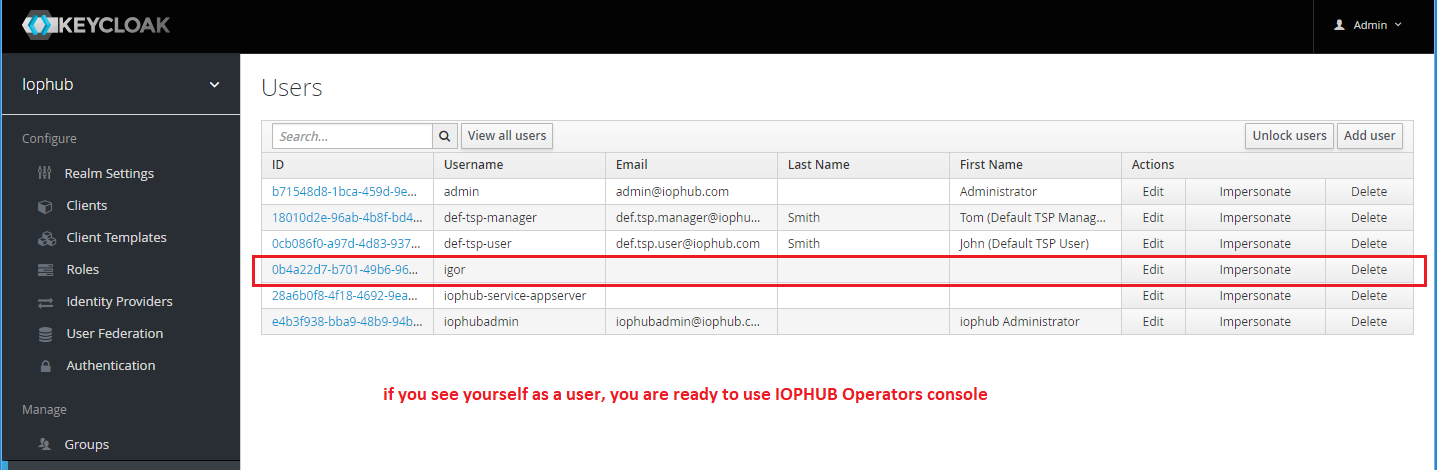
* On new screen select ‘Credentials’
* Enter desired password, re-type it and press ‘Reset password’ button



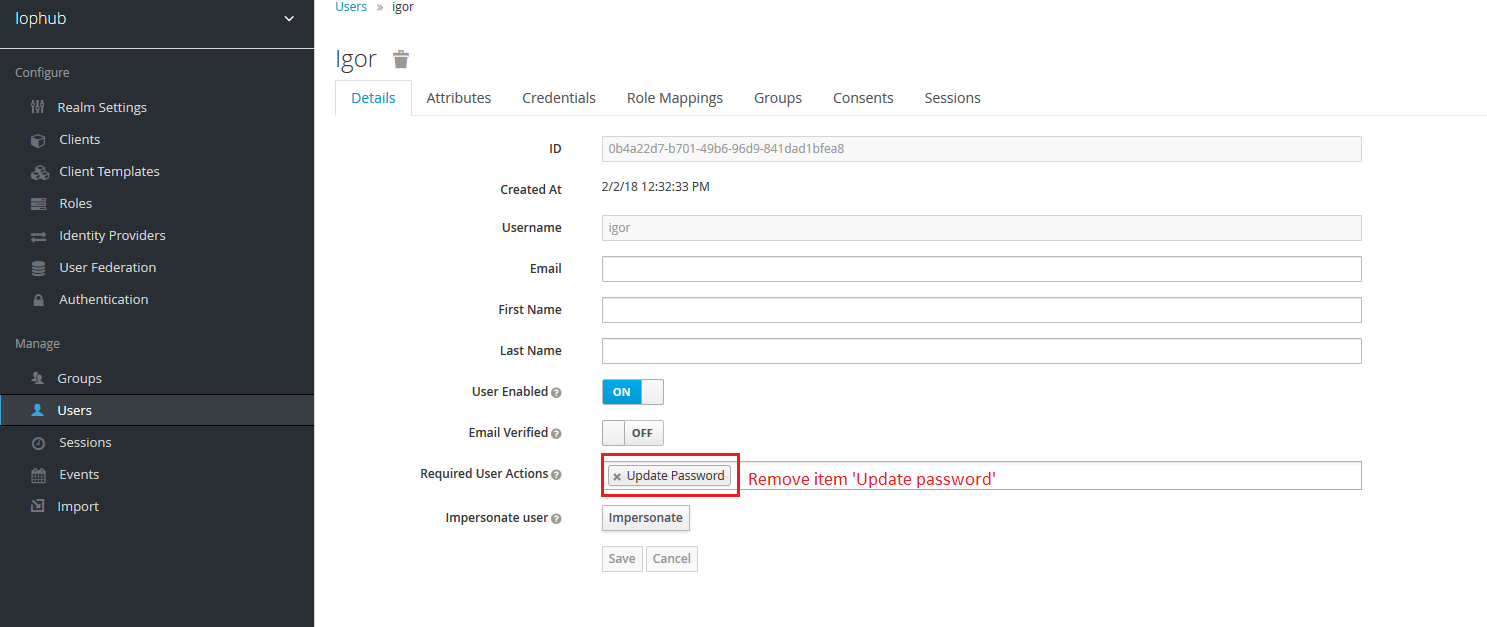
* Confirm action by pressing ‘Change password’ button



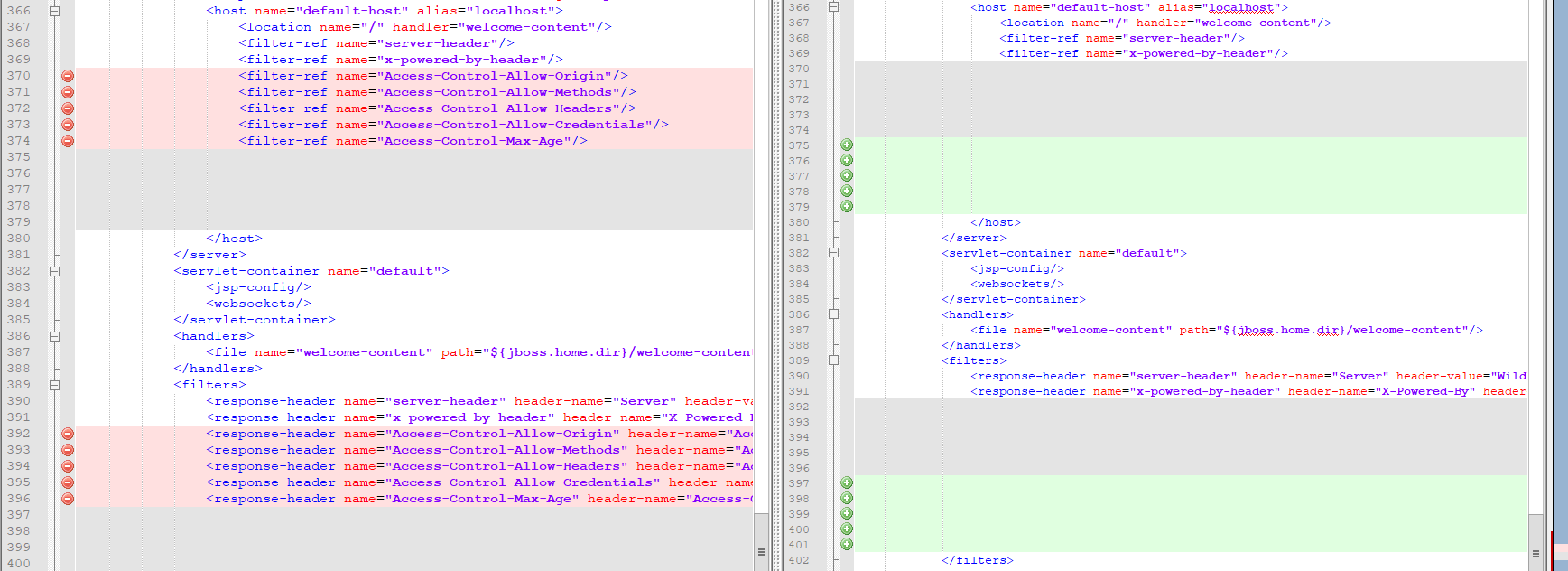
* Check again users section /view all users to see if your name is in the list



* Check if you have ‘Update password’ item under ‘required user actions’



* Optional: you can add role to user under ‘Role mappings’ section (read more on <https://www.keycloak.org/docs/3.1/server_admin/topics/roles.html>).  
  NOTE: Only 1 role per user (**operator, administrator or super\_user**), otherwise you will get random privileges.
* Stop the administration console by pressing CTRL+C, answer ‘y’ in Powershell
* Look for the ‘standalone.xml’ file on this link: <https://confluence.kapschtraffic.com/display/IOPHUB/Keycloak%3A+How+to+enable+CORS>
* To enable CORS, open that file and the same name file from ‘C:\keycloak-2.5.1.Final\standalone\configuration’ and compare them (differences are starting from line 371). Replace whole file content in the original standalone.xml file with the on the above url and save file



* Re-run the ‘bin/standalone.bat’ command and check if there are no errors

Finally, you need to import json file by going to import menu on the bottom left on the page and override all options:



Open certain user and manually add 'super\_user' role to be able to see all options as a superuser

# To be able to use operators console you need to:

* If you are running OC (Operators console) on different port than :8080, navigate to ‘C:\IOPHUB\iophub\Sources\IOPHub.Backoffice\src\app\components\\_core’ and edit file ‘authorization.service.ts’
* Navigate to ‘C:\IOPHUB\iophub\Sources\IOPHub.Backoffice’
* Press SHIFT+right click and select ‘Open Powershell window here’
* Install node and put to path (Environment variables)
* Install Python27 and put to path
* Type command: npm install. If you get errors you need to install dependent packages one by one and to run command ‘npm install’ again. When there are no errors proceed.
* Type command: npm run serve
* Open ‘localhost:3000’ in your browser and try to login with your credentials you have set in keycloak