(https://www.itechempires.com/)
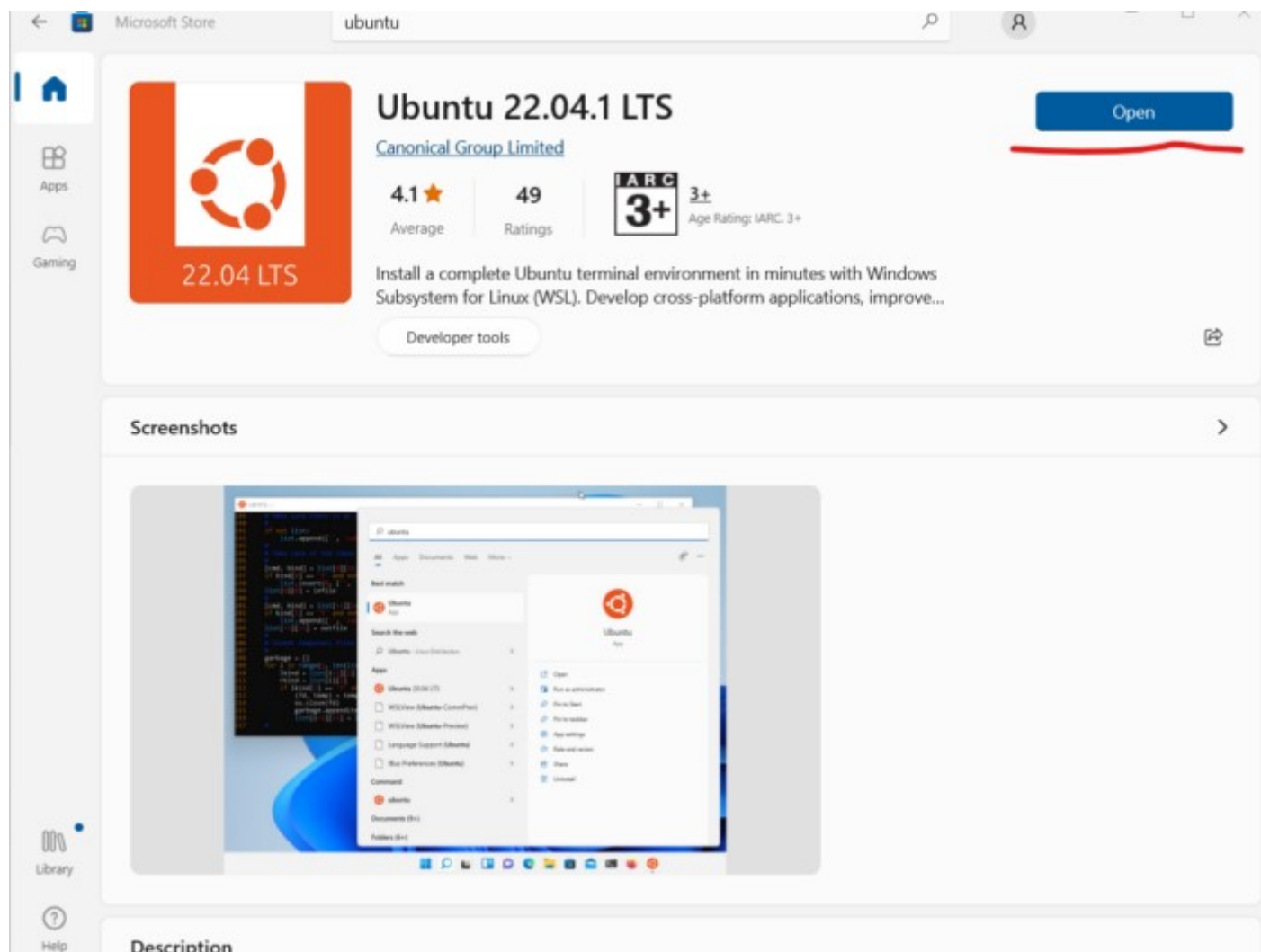
How to create Laravel Application using WSL 2, Docker & Sail on Windows 10 or 11

November 4, 2022 by Yogesh Koli (Https://Www.Itechempires.Com/Author/Yogeshkoli/)

This tutorial will give you steps on how to create Laravel application using Laravel Sail on WSL 2

(Ubuntu 20 or 22) on Windows platform.

I assume you already have Docker Desktop installed on your Windows OS.

Next follow the steps to get Ubuntu 22.04 up running with WSL.

Table of Contents

Install/configure WSL2 on Windows

Open windows PowerShell in Administrator mode and run the following command to enable Microsoft Windows Subsystem

```
dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-
Linux /all /norestart
```

Enable Virtual Machine Platform feature:

You can enable it using Windows PowerShell or you can go into the setting to enable but I would l would prefer command as it is quicker

```
dism.exe /online /enable-feature /featurename:VirtualMachinePlatform /all
/norestart
```

Now restart your system to get Virtual Machine Platform working.

Download & Install Linux Kernel update package

You can use this link to download the official Linux Kernel package from Microsoft – Download Linux Kernel (https://wslstorestorage.blob.core.windows.net/wslblob/wsl_update_x64.msi)

Run downloaded exe file and follow the next step when you are ready

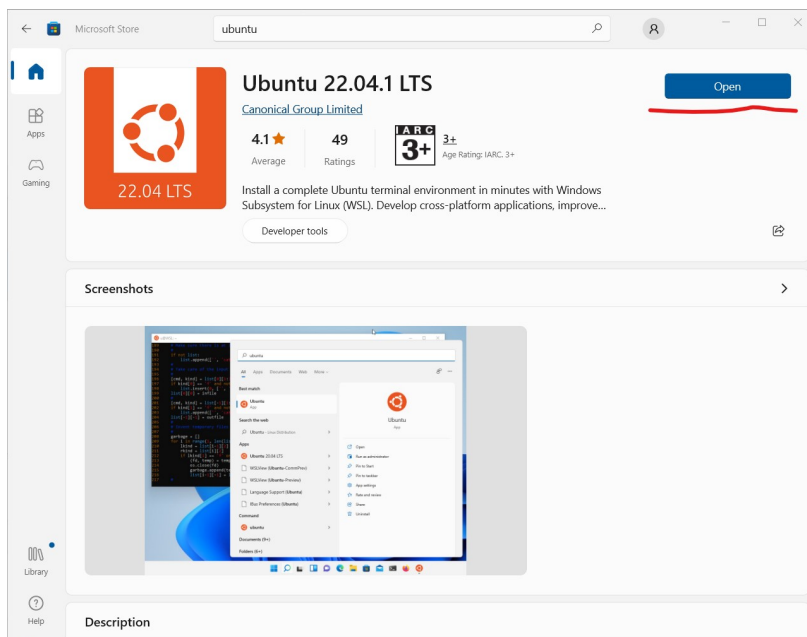## Set WSL2 as your default version

Open windows PowerShell and run following command to set WSL default version
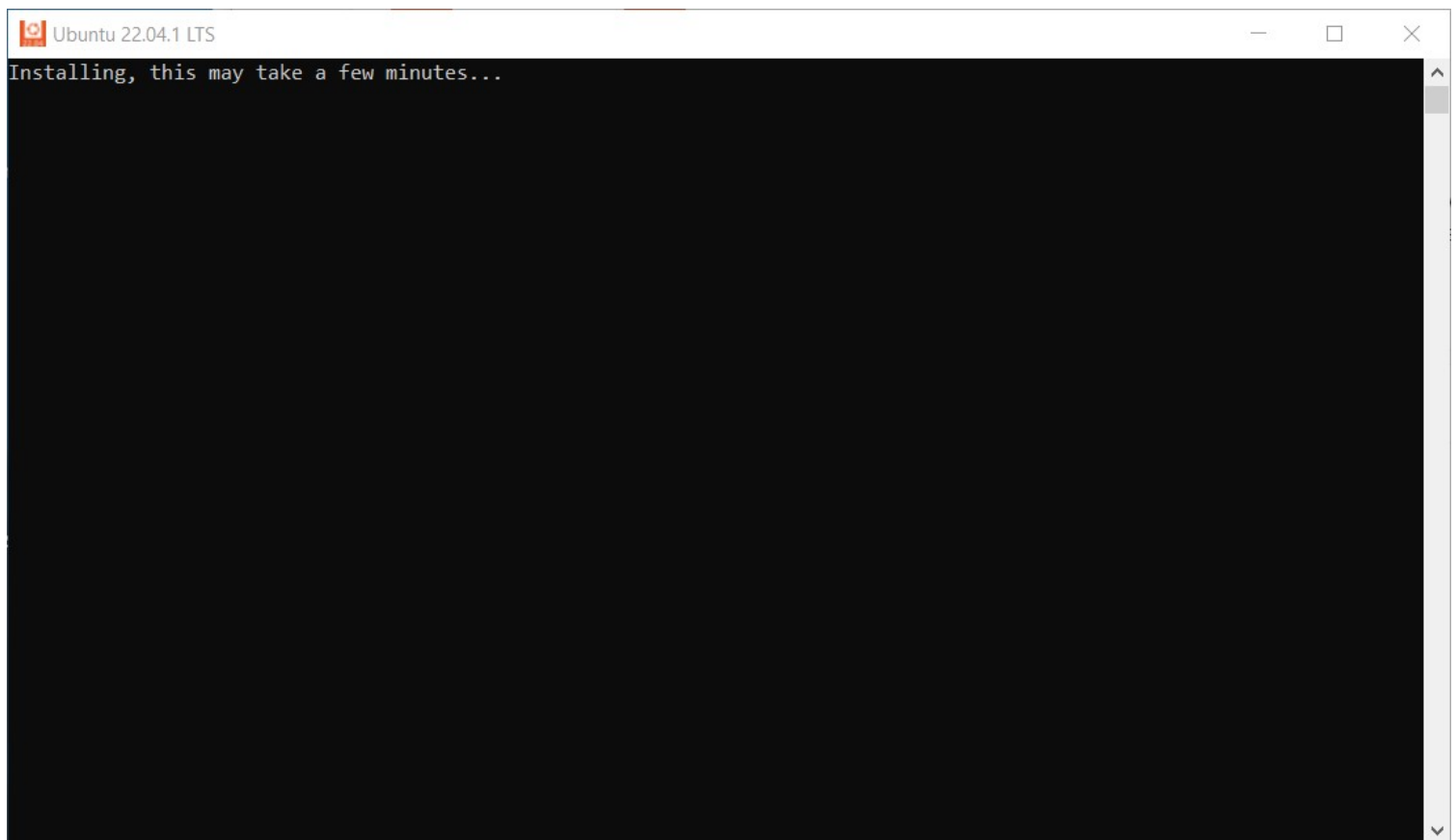
```
wsl --set-default-version 2
```

Download Linux distribution from Microsoft Store

Open Microsoft Store and search for Ubuntu 20 or 22, I preferred using 22.04 her as it is latest and greatest.
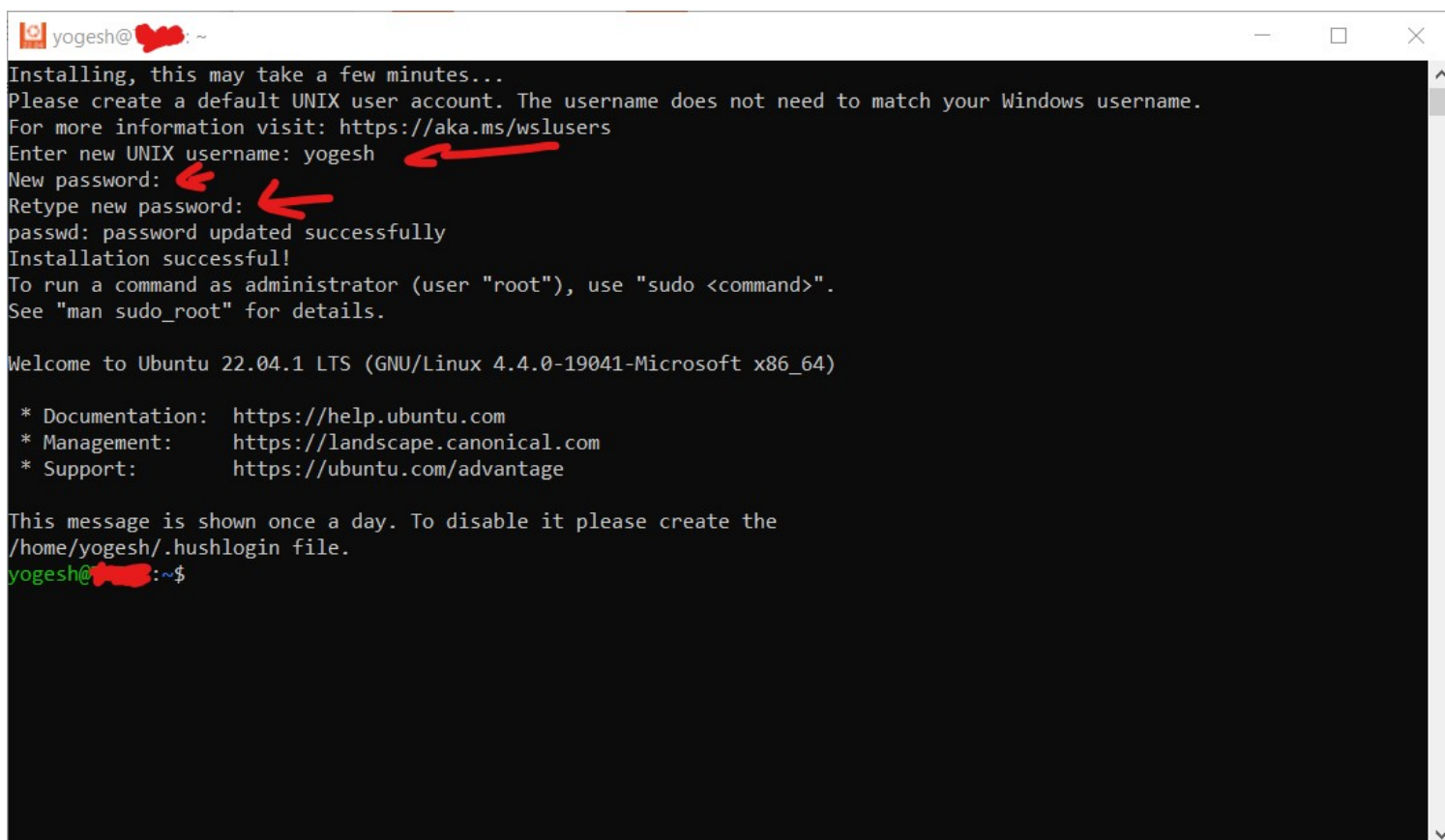
Download Ubuntu 22.04.1 LTS:

Install by Clicking on Open button:

Installation in Process

Setup Username and password

Configure Docker Desktop to use WSL Engine

Open docker desktop on your windows and click on **Setting/Gear** icon to open settings panel, visit **Settings > General** Pane and enable Use the WSL 2 based engine checkbox and Click Apply & Restart button
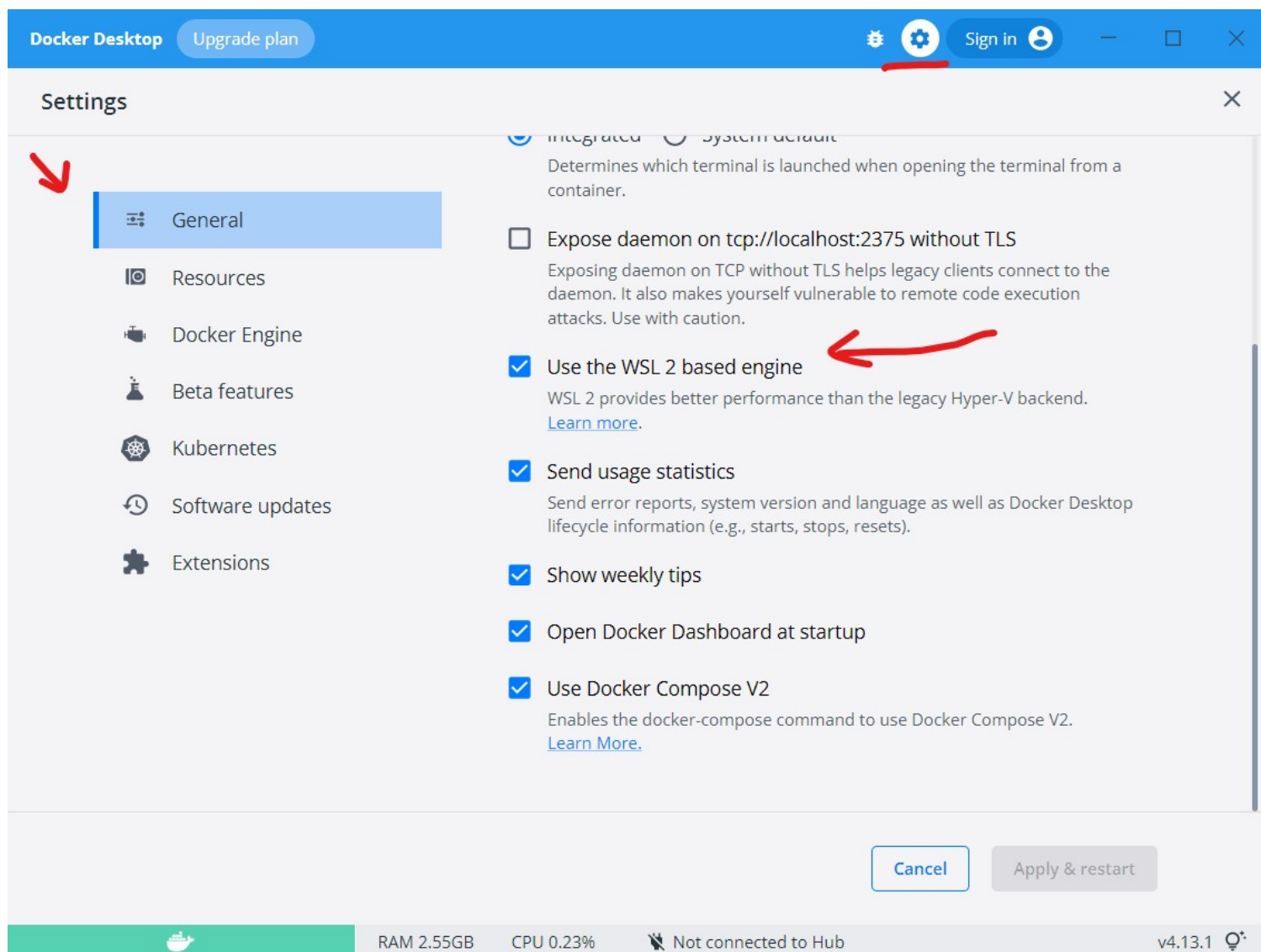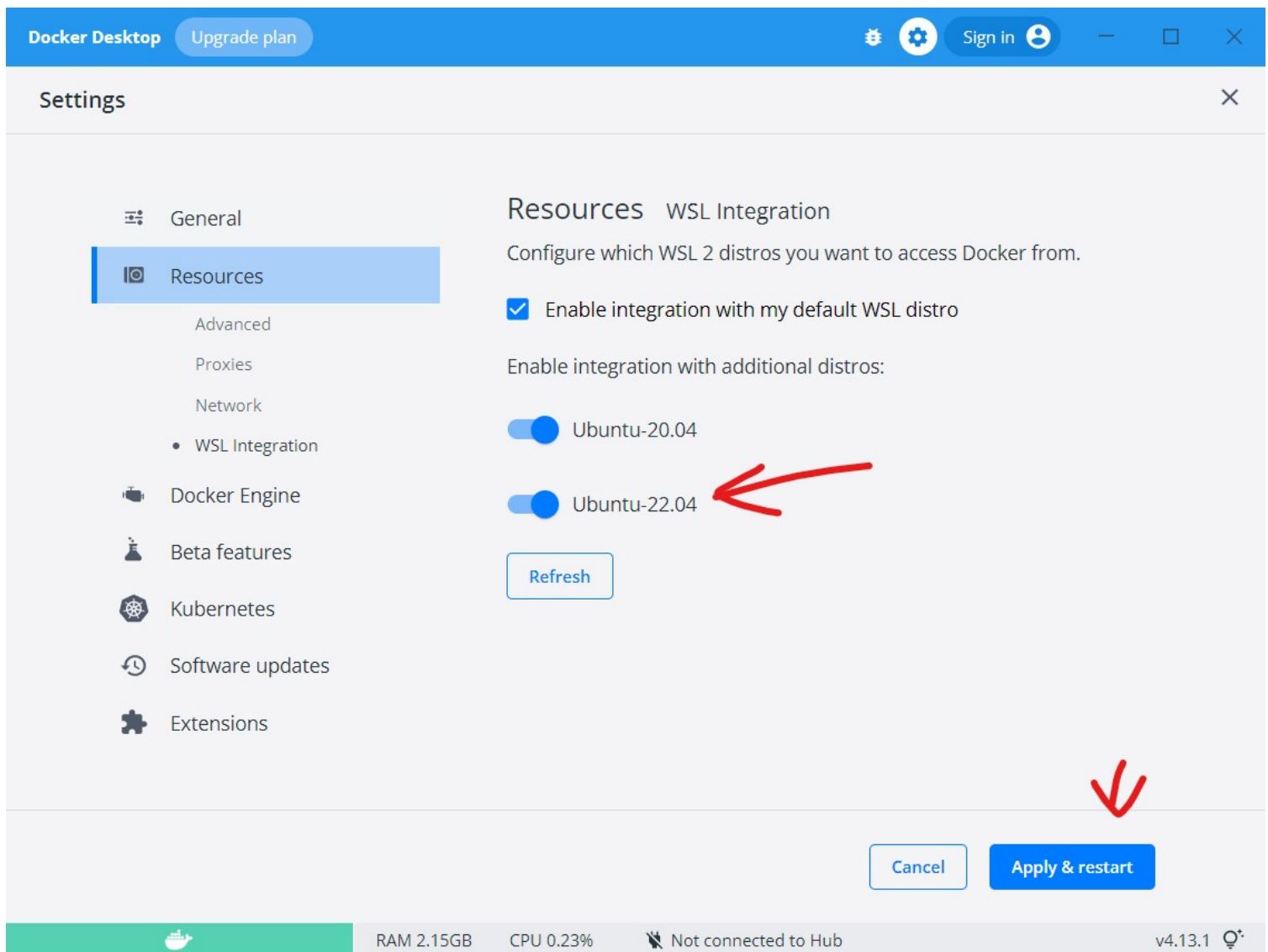
Docker WSL Integration

From docker desktop settings visit Settings > Resources Section, you should see your distros listed as showing below if not make sure that the WSL ubuntu distro is using WSL 2 version.

Check the listed Ubuntu of your choice and click Apply & restart button.

From here you should be able to login to your Ubuntu OS as well as use docker commands from Ubuntu, if not make sure Ubuntu & docker works together.

Create new Laravel Project

Now open up Windows Terminal, and login to your Ubuntu/Linux OS

```
curl -s https://laravel.build/example-app | bash
```

The above command will create a Laravel Application using latest LTS version of Laravel Framework.

Run Laravel Application using Sail

Now navigate into Laravel app (example-app) folder and run following command to run Laravel Sail

```
cd example-app
./vendor/bin/sail up
```

As soon you run the above command first time it will build the docker containers on your System. It will take little time and then you can access your application using localhost from Windows.

So basically, what is happening here is you running Ubuntu/Linux withing Windows and from Windows your accessing application which is running on Linux. 🙂

About Yogesh Koli

Software engineer & Blogger has 10+ years of experience working with the Full Stack Web Application Development.