DOCKER Installation

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Reference link:- Docker Installation guide

System Requirements:-

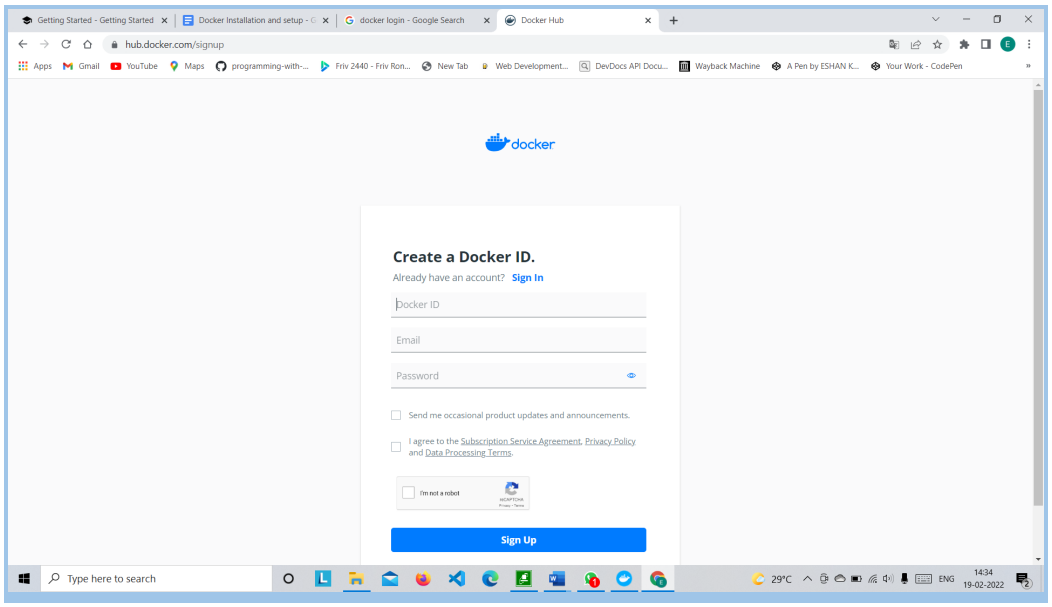
1. Windows 11 64-bit: Home or Pro version 21H2 or higher, or Enterprise or Education version 21H2 or higher.
2. Windows 10 64-bit: Home or Pro 2004 (build 19041) or higher, or Enterprise or Education 1909 (build 18363) or higher.
3. Enable the WSL 2 feature on Windows. For detailed instructions, refer to the Microsoft documentation.
4. The following hardware prerequisites are required to successfully run WSL 2 on Windows 10 or Windows 11:
    a. 64-bit processor with Second Level Address Translation (SLAT)
    b. 4GB system RAM

c. **BIOS-level hardware virtualization support must be enabled in the BIOS settings. For more information, see Virtualization.**

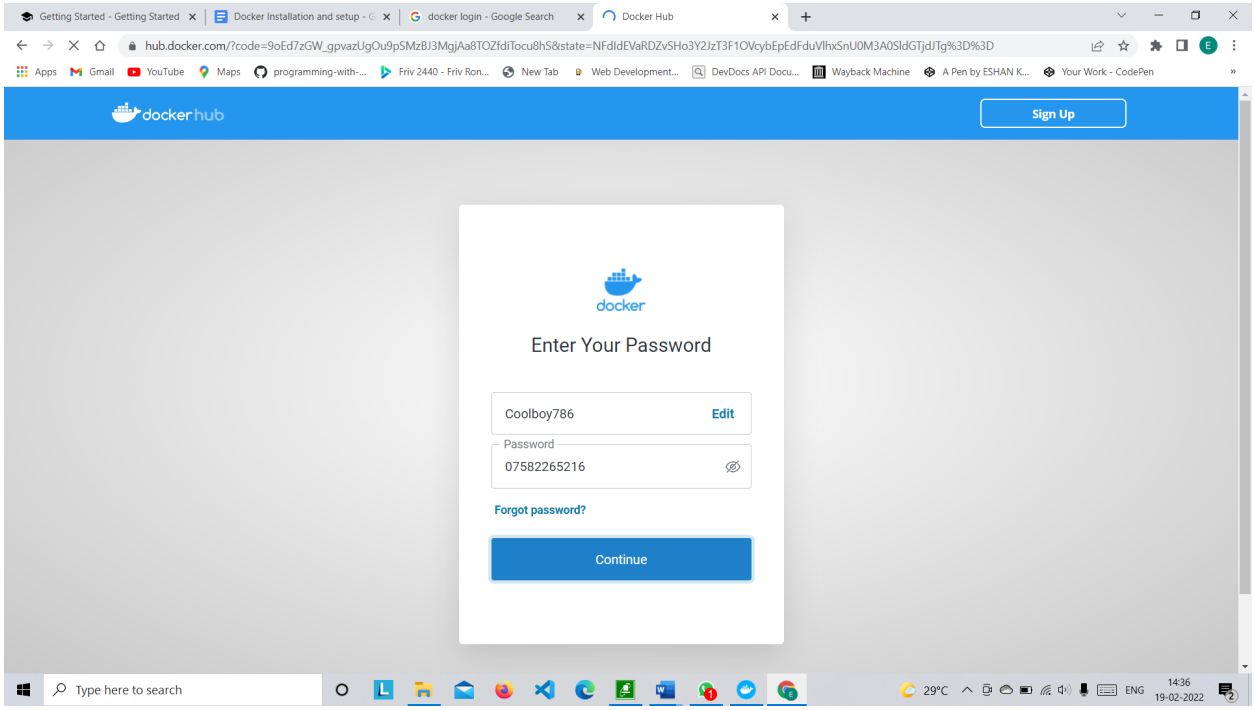
5. **Download and install the Linux kernel update package.**

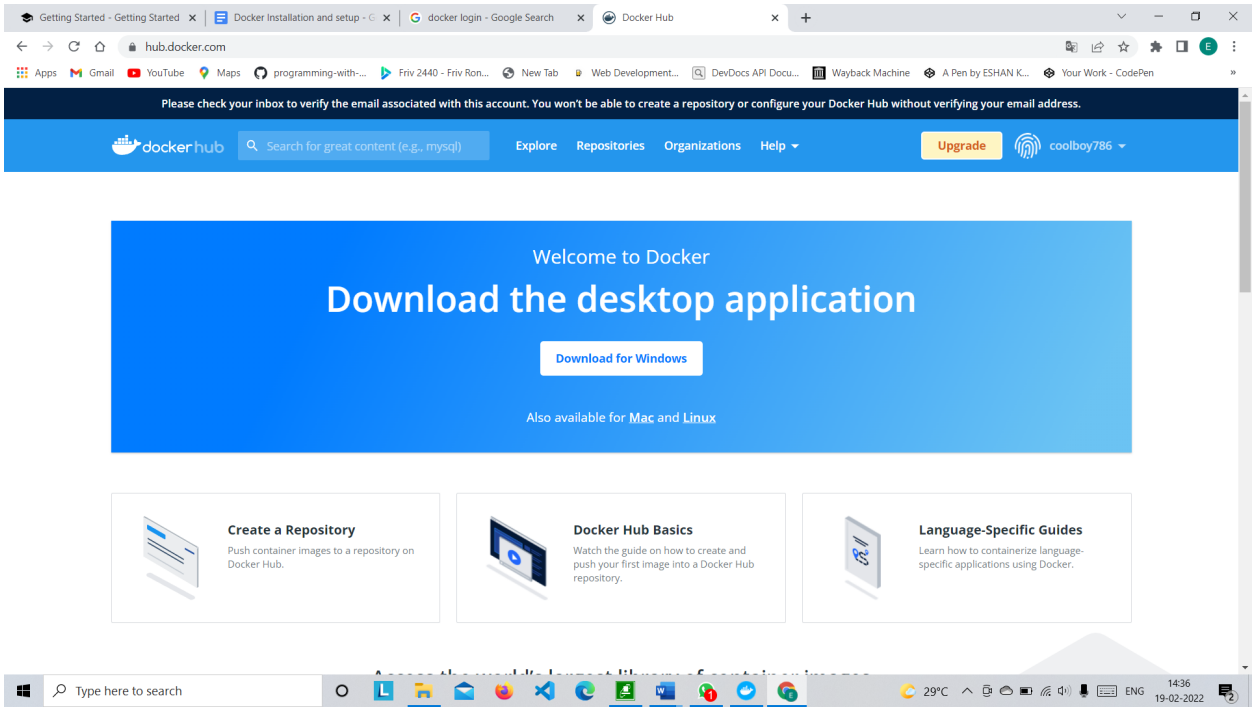
Docker Login:-

1. **Create a Sign up login id and password using sign up option on docker hub**



2. Login with your id/email and password for downloading the docker desktop





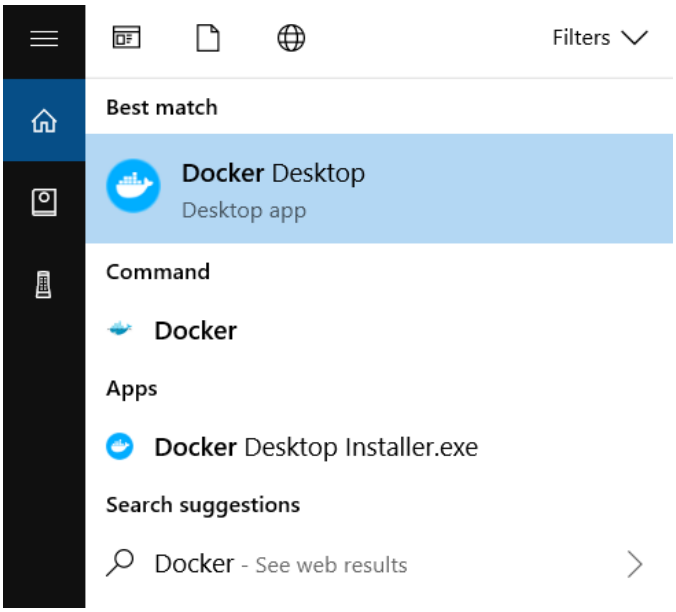
Install Docker Desktop on Windows

1. **Double-click Docker Desktop Installer.exe to run the installer.**
   If you haven't already downloaded the installer (Docker Desktop Installer.exe), you can get it from Docker Hub. It typically downloads to your Downloads folder, or you can run it from the recent downloads bar at the bottom of your web browser.
2. **When prompted, ensure the Enable Hyper-V Windows Features or the Install required Windows components for WSL 2 option is selected on the Configuration page.**
3. **Follow the instructions on the installation wizard to authorize the installer and proceed with the install.**
4. **When the installation is successful, click Close to complete the installation process.**
5. **If your admin account is different to your user account, you must add the user to the docker-users group. Run Computer Management as an administrator and navigate to Local Users and Groups > Groups > docker-users. Right-click to add the user to the group. Log out and log back in for the changes to take effect.**

Start Docker Desktop:-

Docker Desktop does not start automatically after installation. To start Docker Desktop:-

- Search for Docker, and select **Docker Desktop** in the search results.



- The Docker menu ( ) displays the Docker Subscription Service Agreement window. It includes a change to the terms of use for Docker Desktop.

Here's a summary of the key changes:

- Our Docker Subscription Service Agreement includes a change to the terms of use for Docker Desktop
- It **remains free** for small businesses (fewer than 250 employees AND less than $10 million in annual revenue), personal use, education, and non-commercial open source projects.
- It requires a paid subscription for professional use in larger enterprises.

- The effective date of these terms is August 31, 2021. There is a **grace period** until January 31, 2022 for those that will require a paid subscription to use Docker Desktop.
- The existing Docker Free subscription has been renamed **Docker Personal** and we have introduced a Docker Business subscription .
- The Docker Pro, Team, and Business subscriptions include commercial use of Docker Desktop.

- Click the checkbox to indicate that you accept the updated terms and then click **Accept** to continue. Docker Desktop starts after you accept the terms

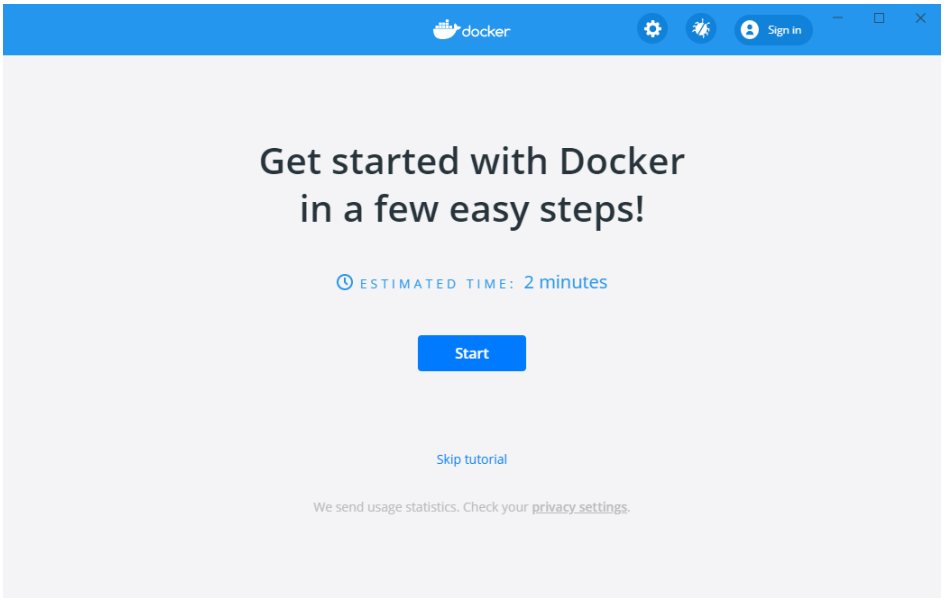
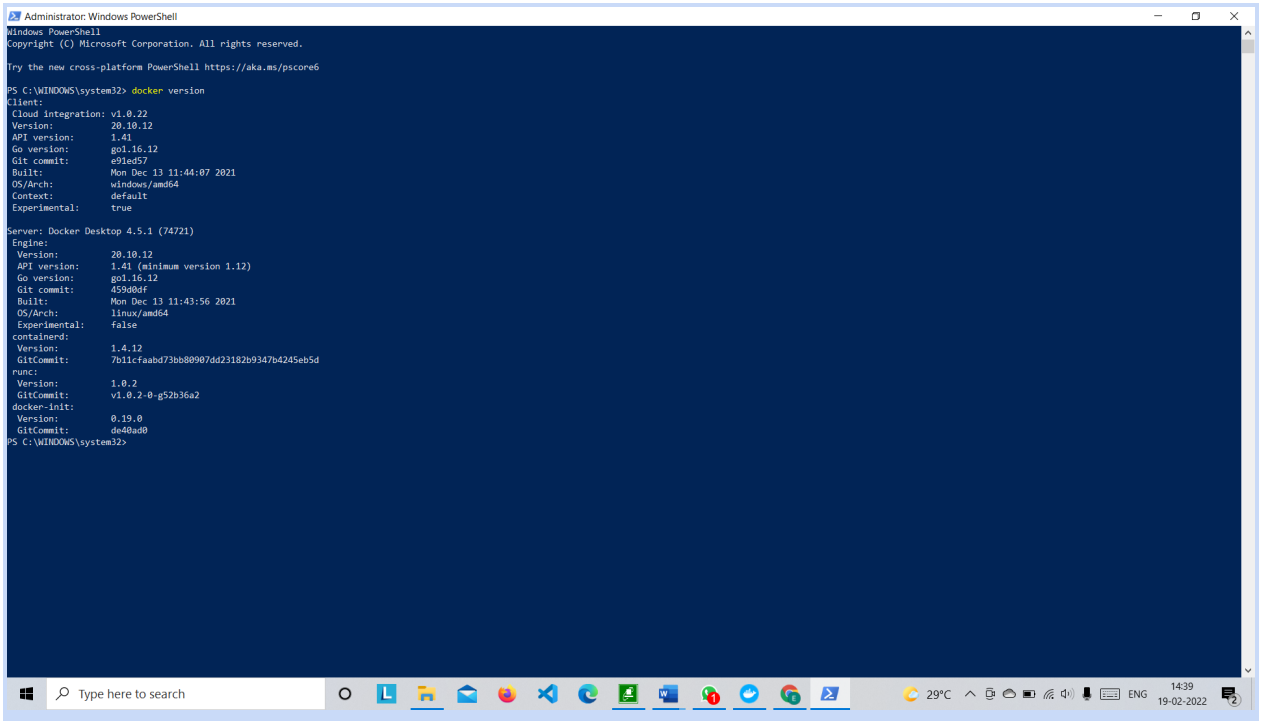
Important

If you do not agree to the updated terms, the Docker Desktop application will close and you can no longer run Docker Desktop on your machine. You can choose to accept the terms at a later date by opening Docker Desktop.

Quick Start Guide:-

When the initialization is complete, Docker Desktop launches the Quick Start Guide. This tutorial includes a simple exercise to build an example Docker image, run it as a container, push and save the image to Docker Hub.

To run the Quick Start Guide on demand, right-click the Docker icon in the Notifications area (or System tray) to open the Docker Desktop menu and then select Quick Start Guide.



Running Commands and checking docker version on Windows powershell or CMD :-