Installation - Windows and Mac OS

Installation of Docker CE on two different platforms.

> **We'll cover the following** ∧
>
> - Docker CE installation on Windows
> - Docker for Mac OS

Docker has a different edition to cater to the different needs of the industry. This makes it difficult to understand what to go with, but this course is all about development and deployment so we will use the Docker community edition as it is available for all three platforms.

Docker CE installation on Windows

As Windows is not built using Linux kernel, Docker first installs a VM, then installs the Docker engine on it. The only limitation with Docker on Windows is that it does not support older versions before Windows 10. So, if you have a Windows system that is older than Windows 10, I will suggest using a VMware instance of Ubuntu.

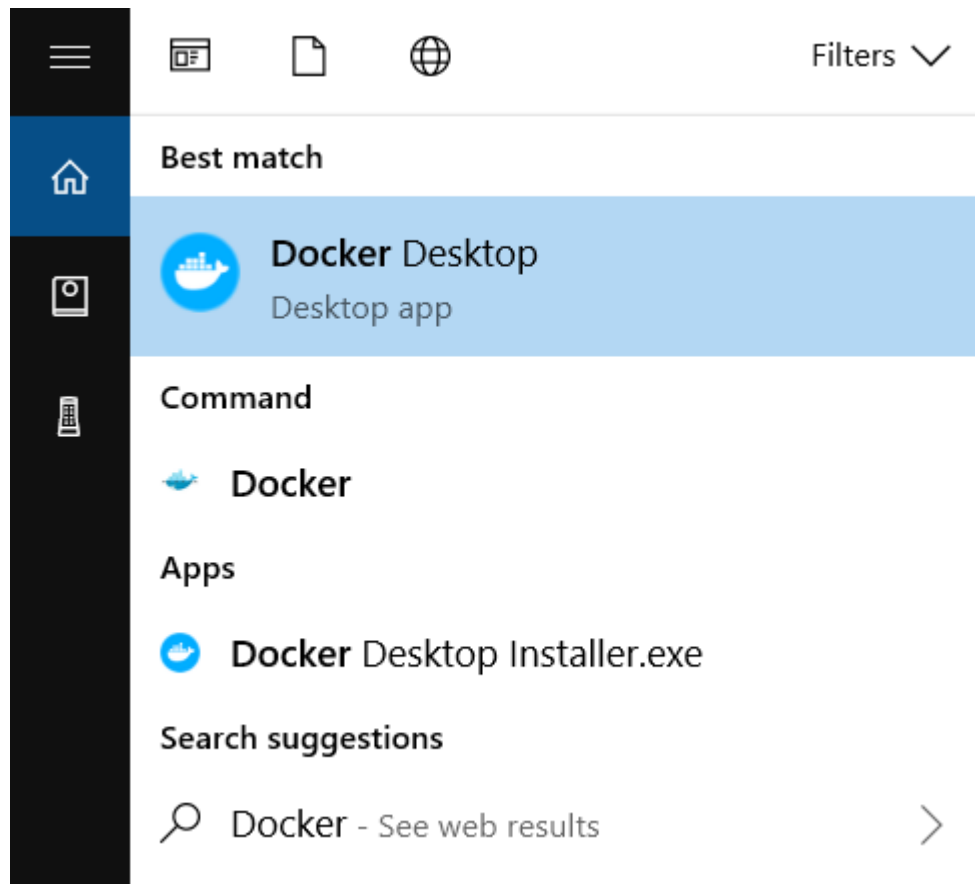The requirements for installing Docker CE on Windows are:

1. Windows 10 64 bit
2. Hyper-V and containers Windows features must be enabled
3. 4GB system RAM
4. BIOS-level hardware virtualization support must be enabled in the BIOS settings

Once you have all the requirements fulfilled, click on the link below and create a Docker account. Docker will suggest installation methods based on your platform.

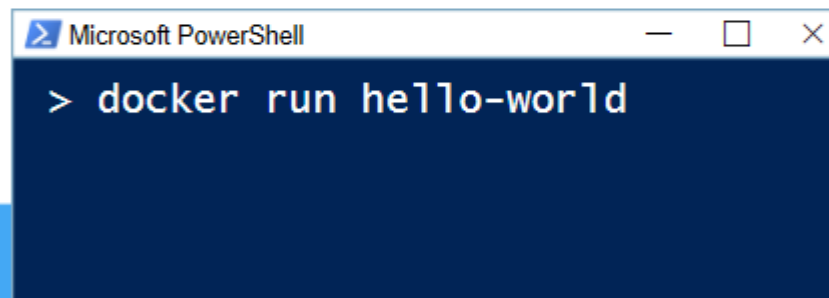Docker CE: https://hub.docker.com/?overlay=onboarding

Once you have downloaded the .exe file, continue the window installation as you would for any Windows app.

After you get the finish message the installation is done. Search for Docker and you should get the screen below:

Docker for Mac OS

While Mac has the Linux kernel, no desktop app can access system-level binaries. So again, Docker installs VM and then installs the Docker engine.

Your Mac must meet the following requirements to successfully install Docker Desktop:

1. Mac hardware must be a 2010 model or newer, with Intel's hardware support for memory management unit (MMU) virtualization including extended page tables (EPT) and unrestricted mode. You can check to see if your machine has this support by running the following command in a terminal: sysctl kern.hv_support

2. macOS must be version 10.12 or newer. We recommend upgrading to the latest version of macOS.

> Docker supports Docker Desktop on the most recent versions of macOS. That means the current release of macOS or any of the previous two releases. As new major versions of macOS are made generally available, Docker will stop supporting the oldest version and support the newest version of macOS (in addition to the previous two releases).

3. At least 4 GB of RAM

4. VirtualBox versions prior to version 4.3.30 must not be installed as it is not compatible with Docker Desktop
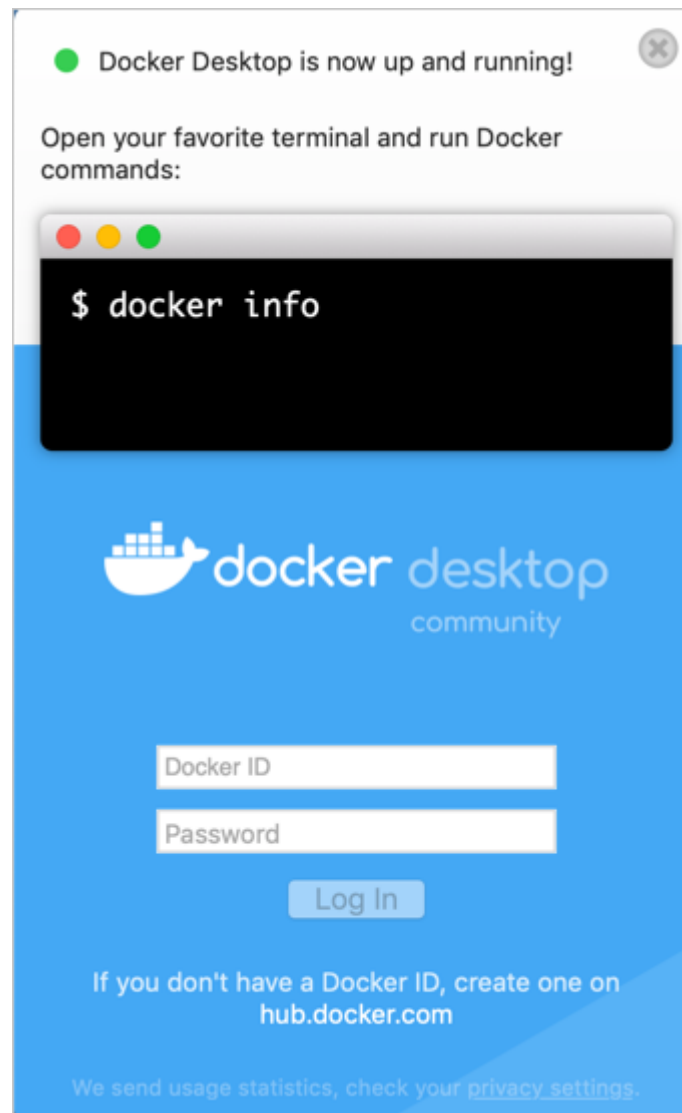
> If your system does not satisfy these requirements, you can install Docker Toolbox, which uses Oracle VirtualBox instead of HyperKit.

If you have all this, click https://hub.docker.com/?overlay=onboarding and download .dmg file and follow the instructions below:

1. Double-click Docker.dmg to open the installer and drag the Docker icon to the applications folder.

2. Double-click Docker.app in the applications folder to start Docker.

3. Click the Docker menu (whale menu) to see preferences and other options.

4. Select 'About Docker' to verify that you have the latest version.

If you see the screen above, congratulations. You have successfully installed Docker. Now, you can access Docker from the command line or terminal.

Let's see how to install Docker CE on Linux.