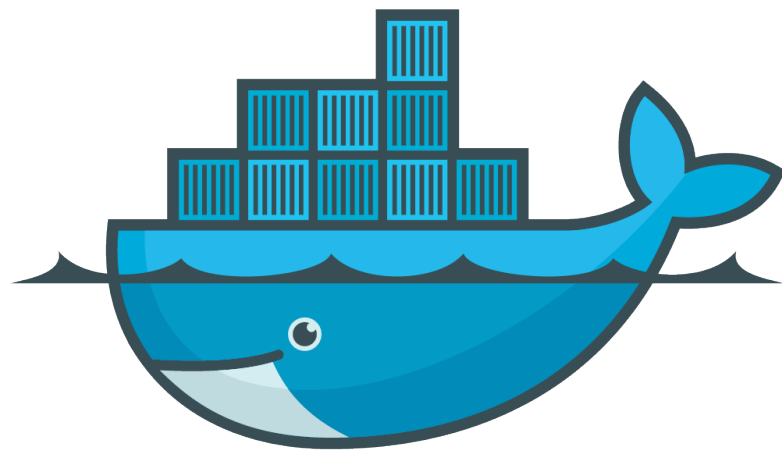


By Wang, Jie

2022-07-02

Docker Implementation & Quick Start

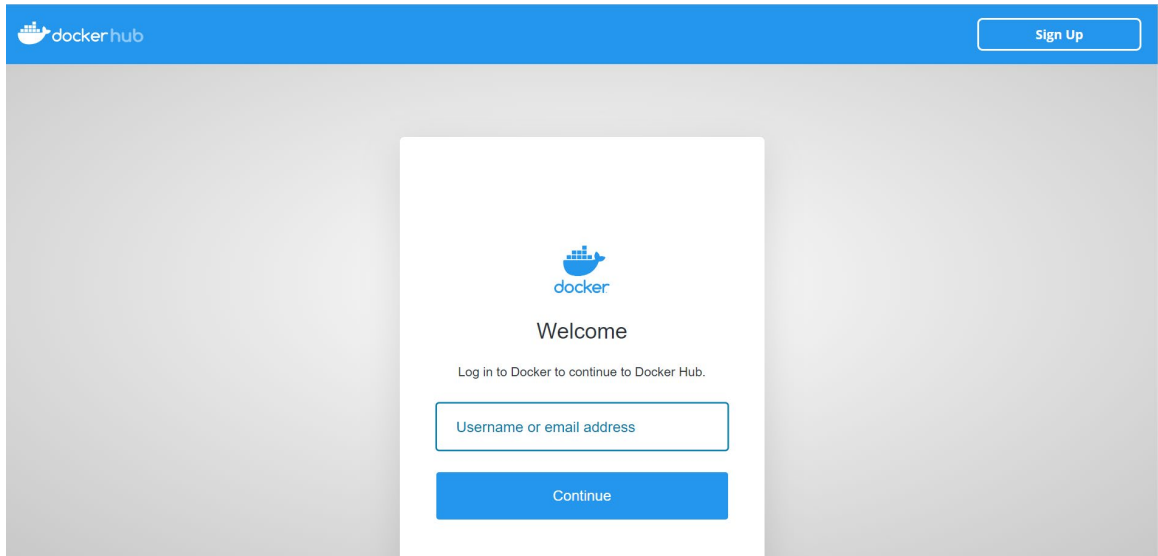


docker

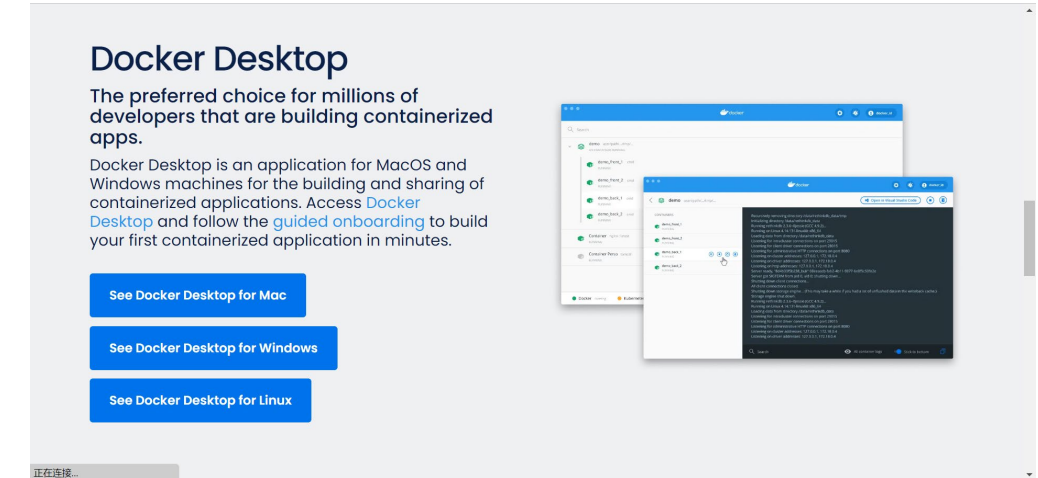
1. Sign up dockerhub & download Desktop version

Docker: a tool for packaging, distributing, and deploying applications -> Especially for Linux app!

一键部署, 轻量级虚拟机 -> Fast and convenient
Only virtualize the environments software needs



- Here we use windows edition as an example, for more information and other platform, please check these websites:
- [Docker 1小时快速上手教程, 无废话纯干货 哔哩哔哩 bilibili](#)
- <https://docker.easydoc.net>
- Google / Bing (No Baidu!)
- StackOverflow & CSDN



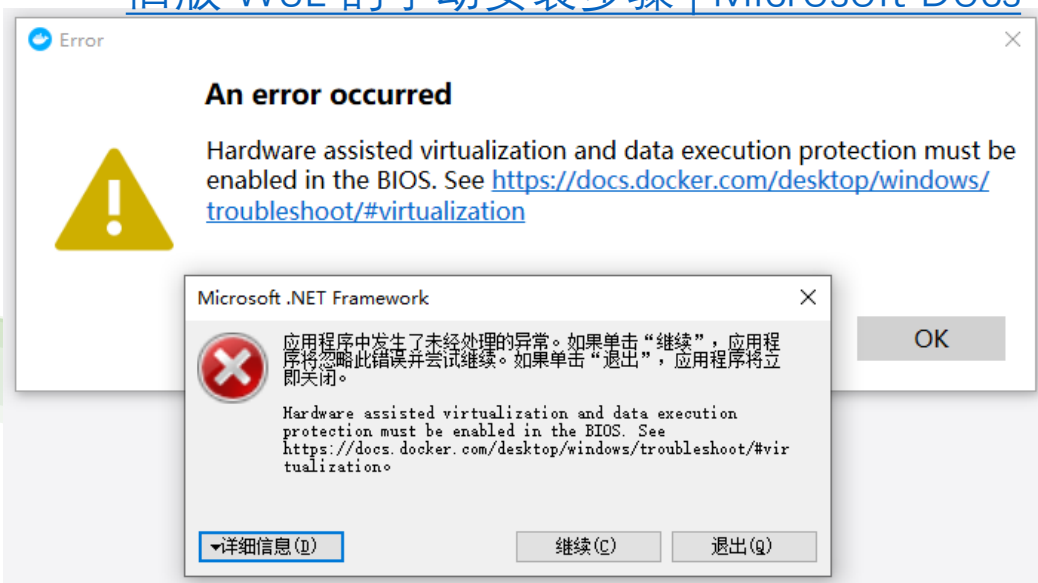
- Supports multiple versions of one application simultaneously
- Quickly get familiar with CLI language 命令行, 更CS的界面
- Prepare for further course: ECE120, ECE220, ECE391, CS225……



2. Environment Configuration

Frequent error: follow the guidance, install/update Ubuntu core.

[旧版 WSL 的手动安装步骤 | Microsoft Docs](#)



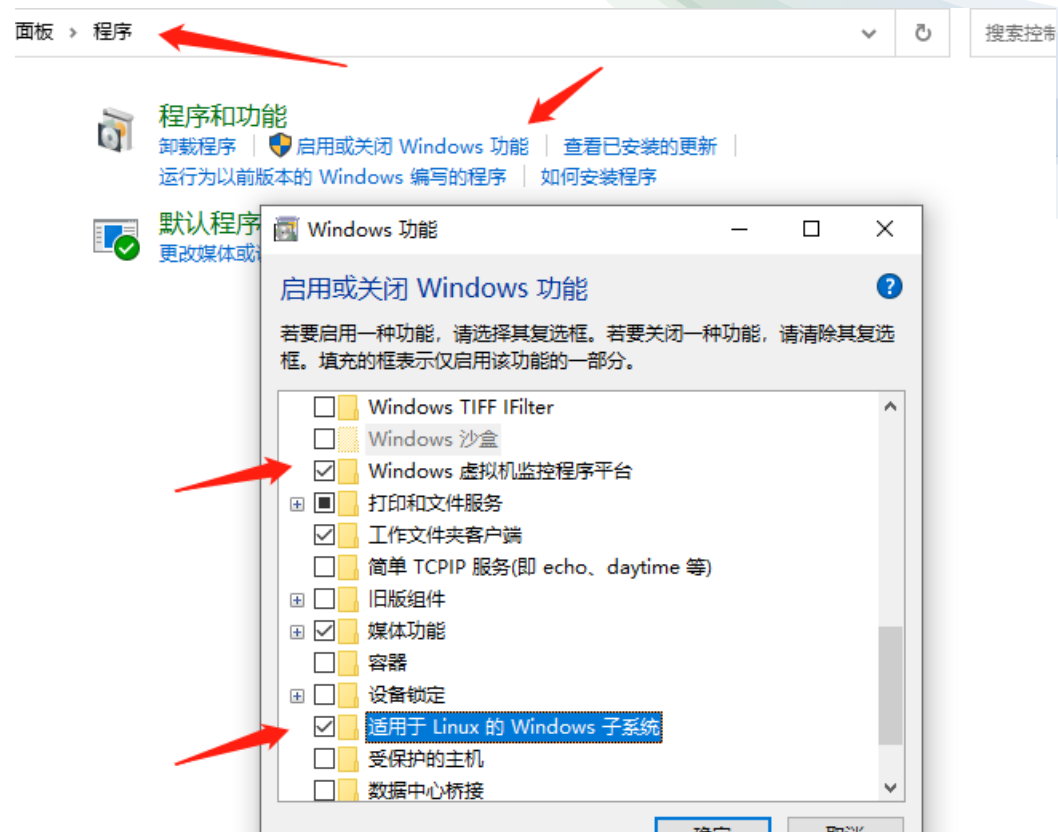
Notice: Ubuntu & Dockerhub can only be installed at Disk#C, prepare enough space for them! (>10GB)

WIN10 edition is preferred

For more details, strongly recommend to follow website guidance & this video: [操作系统概述 \(为什么要学操作系统\) \[南京大学2022操作系统-蒋炎岩-P1\] 哔哩哔哩_bilibili](#)

解决方法:

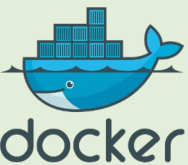
控制面板->程序->启用或关闭 windows 功能, 开启 Windows 虚拟化和 Linux 子系统 (WSL2)



Just follow the 1st tutorial, click and enter PowerShell (right)

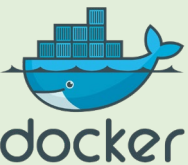
4. After “Hello world”, try to install some program and use it!

Example: SonarQube, a practical and outstanding
tool for java software analysis.



Coming soon...

Example: SonarQube, a practical and outstanding tool for java software analysis.



6. Always: STFW & RTFM

- RTFM: Read The ~~Friendly~~ Manual
- STFW: Search The ~~Friendly~~ Web

这两个字面意思看完其实就结束了，但会被缩成短语即说明其使用的频率之高。也说明了现代人类大部分人经常会问Stupid的问题，而不是先尝试过一些想法后再提问。——Eric Steven Raymond, 2001

English material first: Not only practice reading, but also for better knowledge material!



