

Run Docker on Windows

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Get Started

Docker Desktop

Install Docker Desktop – the fastest way to containerize applications.

Download Docker Desktop

Windows



- Follow installation instructions
- Launch the program



Apple Chip



Linux



Intel Chip

Run Docker on Windows

- Run in Windows PowerShell (Recommended)

```
root@98db085a04f6: /data
PS C:\Users\Kwanrutai> docker run -it --rm -v ${PWD}:/data -w /data ubuntu:latest
root@98db085a04f6:/data# ls
'3D Objects'          'Local Settings'      'Saved Games'
AppData               MicrosoftEdgeBackups  Searches
Apple                 Music                  SendTo
'Application Data'    'My Documents'        'Start Menu'
Contacts              NTUSER.DAT            Templates
Cookies               NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TM.blf  Videos
'Creative Cloud Files' NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer000000000000000001.regtrans-ms  ansel
Desktop               NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer000000000000000002.regtrans-ms  figy
Documents             NetHood               ntuser.dat.LOG1
Downloads             OneDrive              ntuser.dat.LOG2
FastPCRE              Pictures              ntuser.ini
Favorites             PrintHood             venv
IntelGraphicsProfiles Recent
Links                 SEQUIN.INI
```

Install Docker Desktop for MacOS

The screenshot shows the Docker documentation website at docs.docker.com. The page is titled "Install Docker Desktop on Mac". The left sidebar contains a navigation menu with links like "Overview", "Install Docker Desktop", and "Install on Mac". The main content area has a heading "Install Docker Desktop on Mac" and a subheading "This page contains download URLs, information about system requirements, and instructions on how to install Docker Desktop for Mac." Below this are two buttons: "Docker Desktop for Mac with Intel chip" and "Docker Desktop for Mac with Apple silicon". An orange arrow points to the "Docker Desktop for Mac with Apple silicon" button. A callout box with the text "Follow installation instructions" is positioned over the right sidebar. The right sidebar contains a "Contents" section with a list of links: "System requirements", "Mac with Intel chip", "Mac with Apple silicon", "Install and run Docker Desktop on Mac", "Install interactively", "Install from the command line", and "Where to go next".

Command Types In Linux – vegibit

Install Docker Desktop on Mac | Docker Documentation

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Docker Desktop

- Overview
- Install Docker Desktop
 - Install on Mac**
 - Understand permission requirements for Mac
 - Install on Windows
 - Understand permission requirements for Windows
 - Install on Linux
 - Installation per Linux distro
- Sign in
- Explore Docker Desktop
- Hardened Docker Desktop
- Dev Environments (Beta)
- containerd image store (Beta)
- Wasm workloads (Beta)

Install Docker Desktop on Mac

This page contains download URLs, information about system requirements, and instructions on how to install Docker Desktop for Mac.

Docker Desktop for Mac with Intel chip Docker Desktop for Mac with Apple silicon

For checksums, see [Release notes](#).

Docker Desktop terms

Commercial use of Docker Desktop in larger enterprises (more than 250 employees OR more than \$10 million USD in annual revenue) requires a paid subscription.

System requirements

Mac with Intel chip Mac with Apple silicon

Mac with Intel chip

- macOS must be version 11 or newer. That is Big Sur (11), Monterey (12), or Ventura (13). We recommend

Contents:

Page details

- 5 minute read
- Edit this page
- Request a change

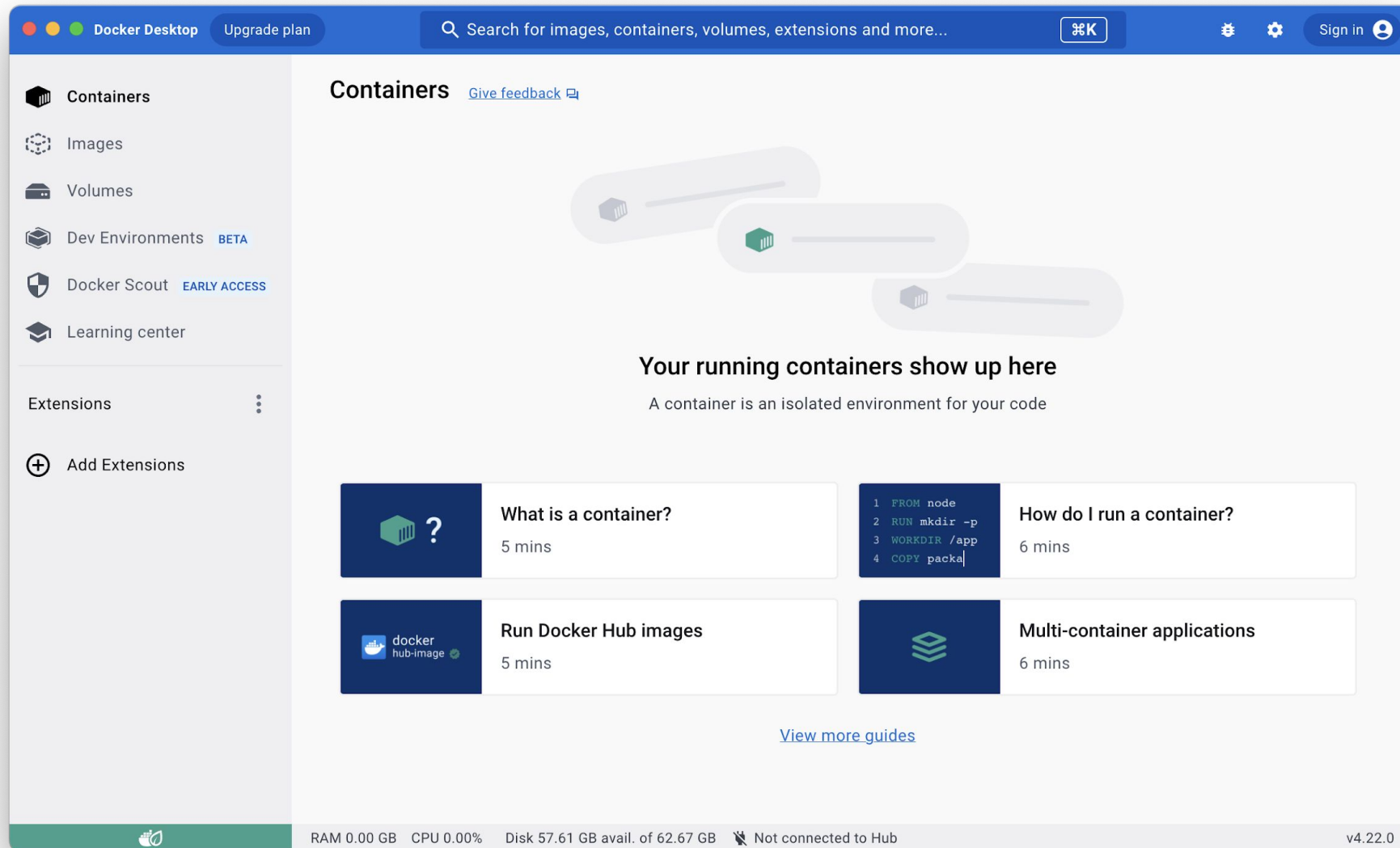
Contents

- System requirements
 - Mac with Intel chip
 - Mac with Apple silicon
- Install and run Docker Desktop on Mac
 - Install interactively
 - Install from the command line
- Where to go next

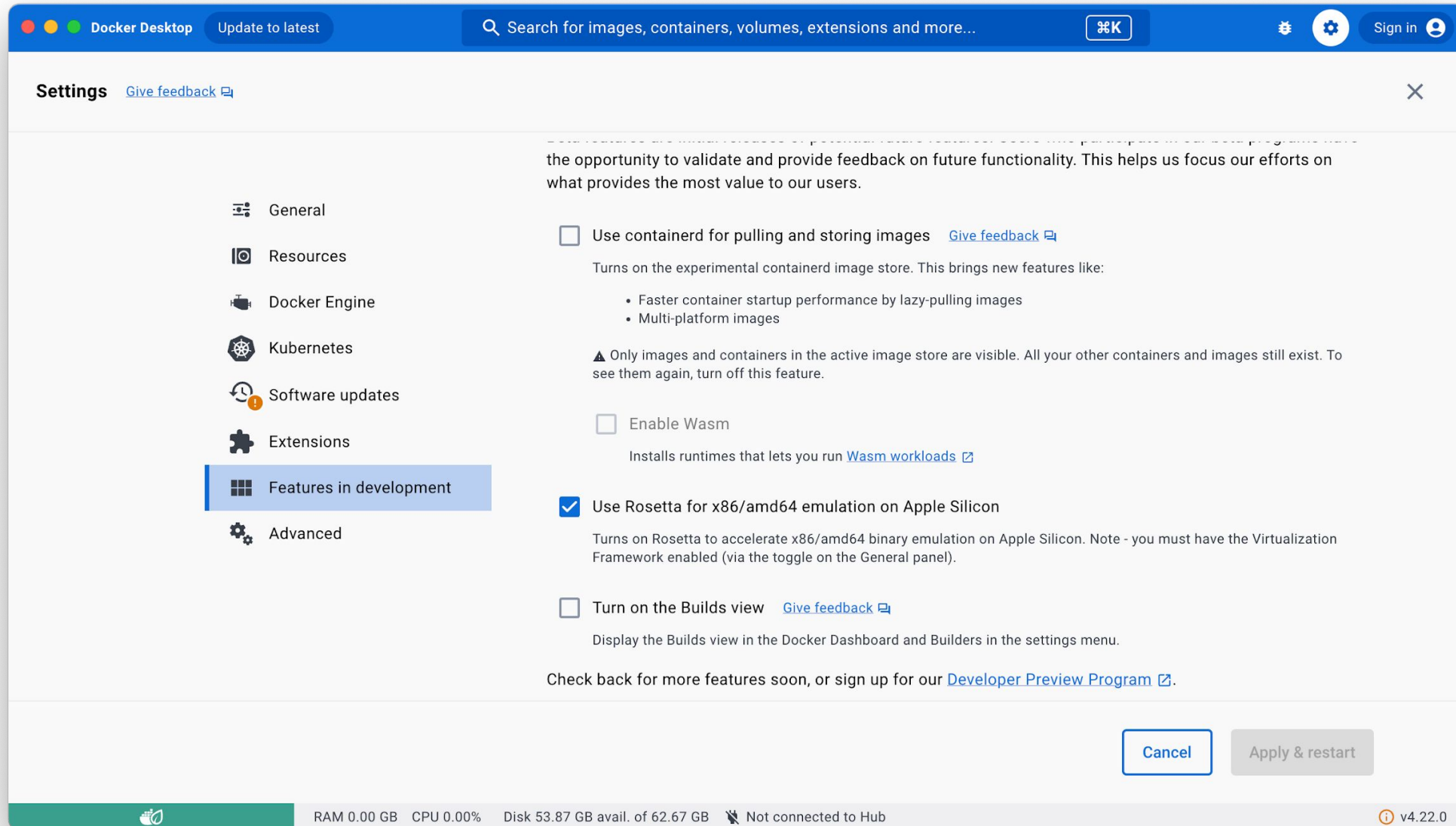
Follow installation instructions

Give feedback

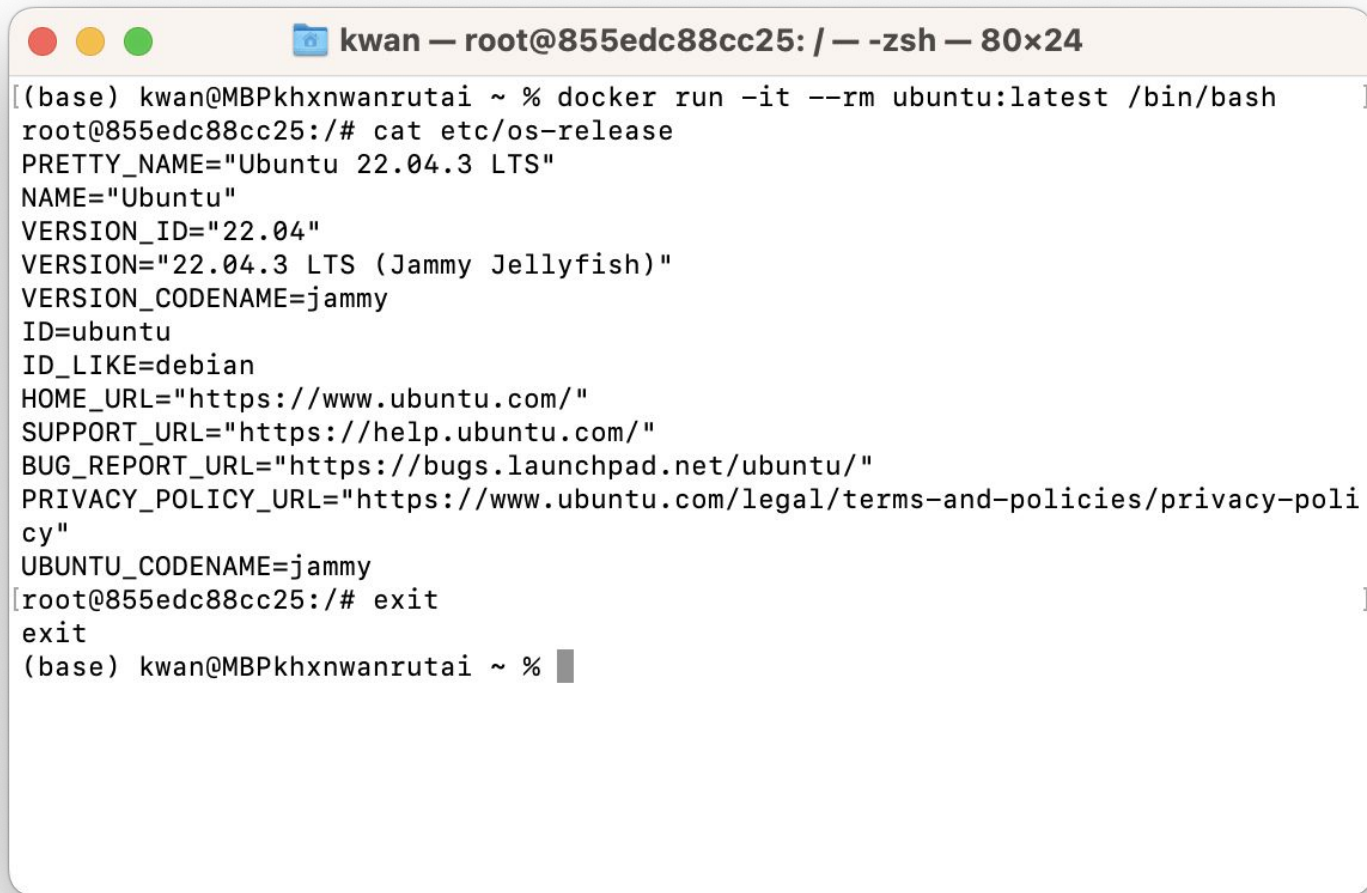
Launch Docker Desktop



For Mac with Apple Silicon



Run Docker in Terminal



```
kwan — root@855edc88cc25: / — zsh — 80x24

[(base) kwan@MBPkhxnwanrutai ~ % docker run -it --rm ubuntu:latest /bin/bash
root@855edc88cc25:/# cat etc/os-release
PRETTY_NAME="Ubuntu 22.04.3 LTS"
NAME="Ubuntu"
VERSION_ID="22.04"
VERSION="22.04.3 LTS (Jammy Jellyfish)"
VERSION_CODENAME=jammy
ID=ubuntu
ID_LIKE=debian
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
UBUNTU_CODENAME=jammy
root@855edc88cc25:/# exit
exit
(base) kwan@MBPkhxnwanrutai ~ %
```

Basic Docker commands

- `docker run -it --rm ubuntu:latest /bin/bash`
 - `docker run` □ Create and run a new container from an image
 - `-it` □ Interactive session
 - `--rm` □ Automatically remove the container when it exits
 - `ubuntu:latest` □ Image name and tag (i.e. version)
 - `/bin/bash` □ Command to run within the container (`/bin/bash` = command prompt. Could be omitted.)

Basic Docker commands

- `docker run -it --rm -v /my/local/path:/data -w /data ubuntu:latest /bin/bash`
 - `-v /my/local/path:/data` □ Mount /my/local/path to /data in the container
 - `-w` □ Set /data of the container as the working directory

Basic Docker commands

- `docker ps` □ Check all running instances
- `docker ps -a` □ Check all running and exited instances
- `docker rm [CONTAINER ID]` □ Remove an instance
- `docker images` □ Check locally available images
- `docker rmi [IMAGE ID]` □ Remove an image

Basic Docker commands

- `docker run -it -v /my/local/path:/data -w /data ubuntu:latest` ☐ `exit` ☐ Exited container (see instance ID with `docker ps -a`)
- `docker start -a -i [instance ID]` ☐ Start and access an exited container (-a = attach to access the container; -i = interactive)

For MacOS with Apple Silicon (M1,M2,M3,...)

Images may not be available for ARM64 CPU.

Use '--platform linux/amd64' to run AMD64 images via an emulator (i.e., Rosetta)

- `docker run --rm -it --platform linux/amd64 ubuntu:latest`

Dockerfile

The screenshot shows the GitHub interface for the `rocker-org/rocker` repository. The repository is public and has 277 forks and 1.4k stars. The current view is the `Dockerfile` for the `r-base / 4.3.1` version, committed by `eddelbuettel` 2 months ago. The Dockerfile is 70 lines long (59 loc) and 3.07 KB. The code is as follows:

```
1  ## Emacs, make this -*- mode: sh; -*-
2
3  FROM debian:testing
4
5  LABEL org.opencontainers.image.licenses="GPL-2.0-or-later" \
6         org.opencontainers.image.source="https://github.com/rocker-org/rocker" \
7         org.opencontainers.image.vendor="Rocker Project" \
8         org.opencontainers.image.authors="Dirk Eddelbuettel <edd@debian.org>"
9
10 ## Set a default user. Available via runtime flag `--user docker`
11 ## Add user to 'staff' group, granting them write privileges to /usr/local/lib/R/site.library
12 ## User should also have & own a home directory (for rstudio or linked volumes to work properly).
```

Simple docker file ☐ Test building

```
$ cd /your/path/  
$ nano Dockerfile
```

```
# Simple Ubuntu container with htop and nano  
installed
```

```
FROM ubuntu:latest
```

```
LABEL AUTHOR=dumrong.mai@mahidol.ac.th
```

```
RUN apt-get update && apt-get install -y  
--no-install-recommends \  
    nano \  
    htop
```

Build image from a Dockerfile

- `cd /path/to/Dockerfile`
- `docker build -t image_name:tag .` (Do not forget '.')

For building AMD64 images on ARM64 CPU

- `docker build --platform linux/amd64 -t image_name:tag .` (Do not forget '.')