

Docker Desktop Installation Guide for macOS

Prerequisites

- macOS version: macOS 11 (Big Sur) or later
- Processor: Intel or Apple Silicon (M1, M2, M3)
- RAM: Minimum 4 GB (8 GB recommended)
- Virtualization: Must be enabled (macOS handles this automatically)
- Disk Space: At least 4 GB free

Step 1: Download Docker Desktop

1. Visit the official Docker download page: <https://docs.docker.com/desktop/setup/install/mac-install/>
2. Choose the correct version for your Mac (Apple Silicon or Intel).
3. Click 'Download Docker.dmg'.

Step 2: Install Docker Desktop

1. Locate the downloaded Docker.dmg file in your Downloads folder.
2. Double-click to mount the disk image.
3. Drag the Docker icon into the Applications folder.
4. Open Docker.app from Applications.
5. Accept the Docker Subscription Service Agreement and grant necessary permissions.

Step 3: Sign In to Docker

- Sign in with your Docker Hub account or create one during setup.

Step 4: Configure Docker Desktop (Optional)

1. Click the Docker icon in the macOS menu bar.
2. Go to Preferences:
 - Resources: Adjust CPU, memory, and disk allocation.
 - File Sharing: Add folders to share with containers.
 - Network: Configure proxy or DNS settings if needed.

Step 5: Verify Installation

- Open Terminal and run: `docker --version`
- To test Docker: `docker run hello-world`

Optional: Install via Homebrew

- Run the following commands in Terminal:

```
brew install --cask docker
```

```
open /Applications/Docker.app
```

Troubleshooting Tips

- Ensure virtualization is enabled in macOS.
- Download the correct version for your processor.
- Restart your Mac or reinstall Docker if you encounter permission errors.