



Laptop Setup Instructions:

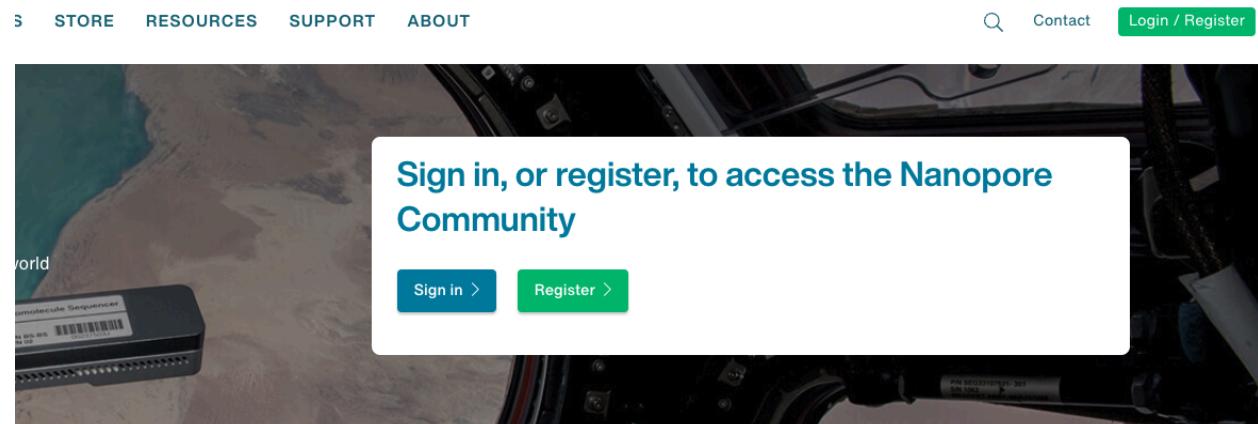
Windows:

Requirements:

- Administrator access to the laptop, installing Epi2me and MinKNOW both require administrator access to the PC
 - A laptop with a discrete graphics card, if you do not know whether you have a discrete graphics card you can check by:
 - Right clicking the “Start Menu”
 - Selecting “Device Manager”
 - Selecting the “Display Adaptors” drop down, if the only entry here includes “Intel” you do not have a discrete graphics card and will require an external device to baseball your sequencing data at a reasonable speed (e.g. a GridION or a MinION mk1c).
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Step 1:

Register for an Oxford Nanopore Technologies Account at <https://nanoporetech.com/community>, by clicking the “Register” link.



Once you have registered you will have to verify your email and log in using the credentials you provided. To unlock the useful software and documentation, you will need to order a starter pack or become associated with an account which has full membership, which we encourage you to do in your own time. We provide download links below for all necessary software so you can prepare for the workshop without access to a full ONT account.

Step 2:

Download the appropriate EPI2ME labs installer by clicking the following link:

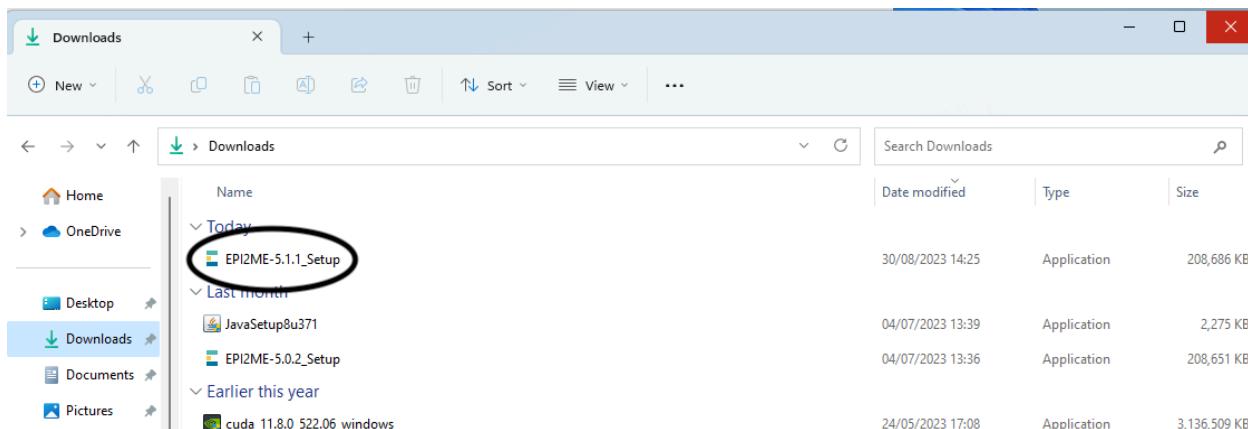
<https://labs.epi2me.io/downloads/>

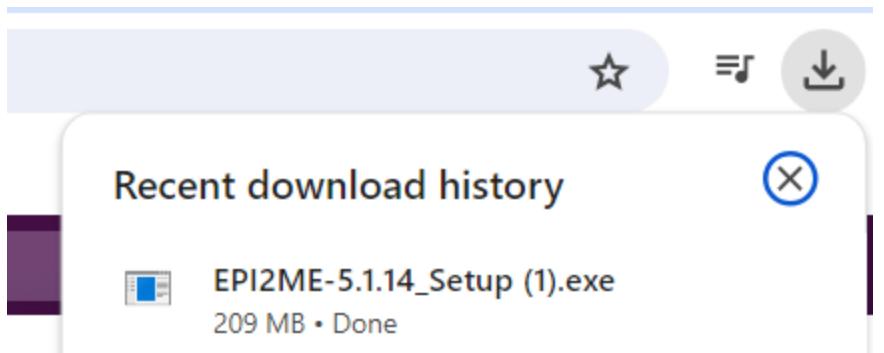
Platform	Download
Windows 10	Download installer
macOS Intel	Download .pkg
macOS M1/M2	Download .pkg
Ubuntu / Debian	Download .deb
RHEL 8+ / Rocky	Download .rpm

Note that the “Windows 10” version is compatible with Windows 11 in our testing.

Step 3:

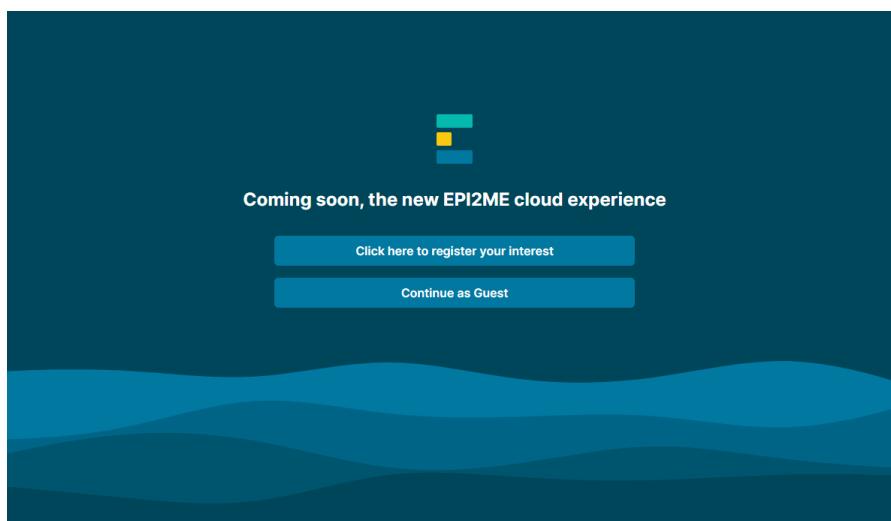
In your file browser, navigate to your downloads directory and execute it by double clicking. If you encounter any errors here, right click the installer and click “Run as Administrator” to try again.





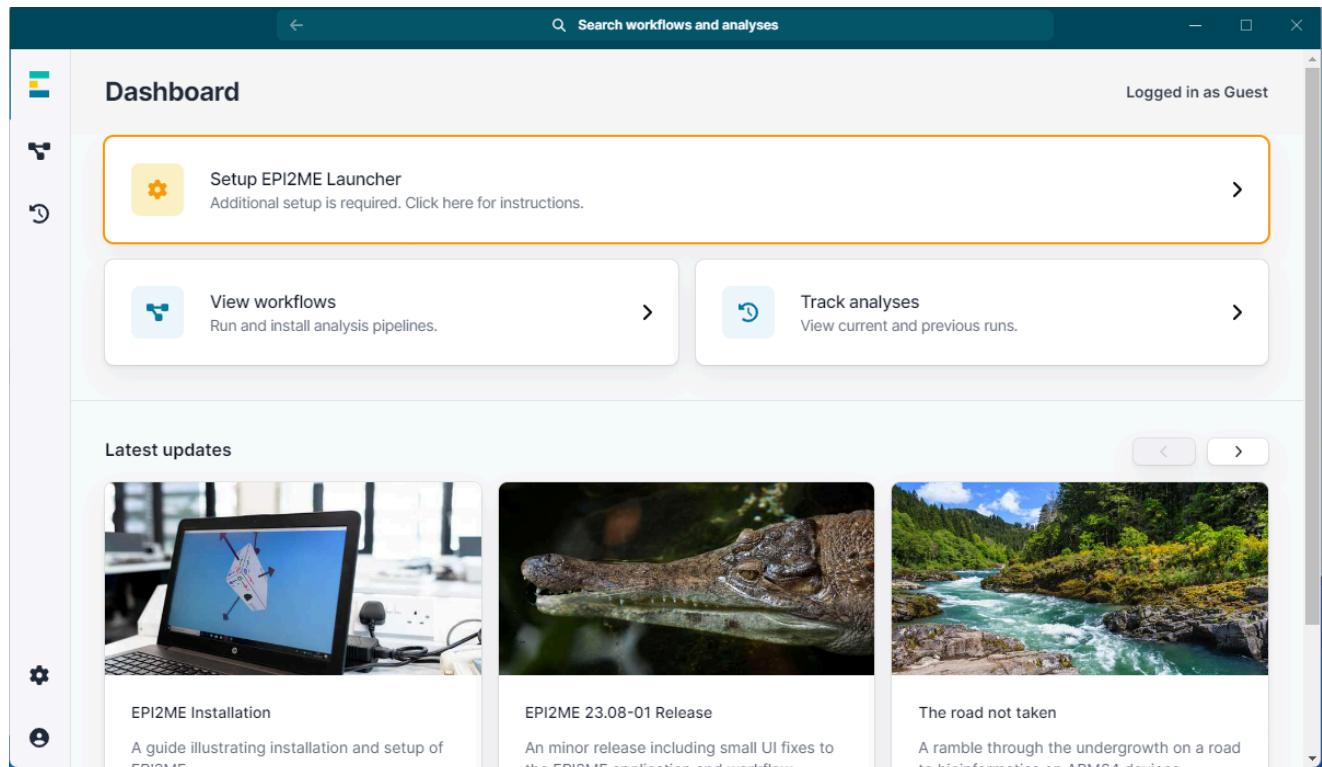
Step 4:

Click "Continue as Guest" to proceed.



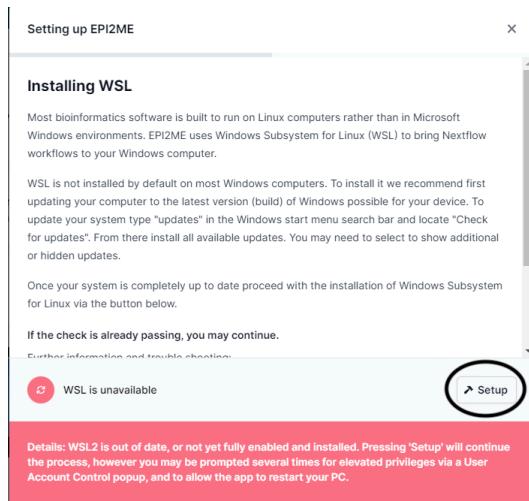
Step 5:

Then select the “Setup EPI2ME launcher” option. This will attempt to automatically install the requirements to run EPI2ME pipelines.



Step 6:

The first requirement that EPI2ME will attempt to install is Windows Subsystem for Linux (WSL) if it is not already installed (you can install WSL prior to installing EPI2ME if you wish). Your PC may restart as you install WSL. Begin the process by clicking the “Setup” icon when you see this popup. If you already have WSL installed you should see a message which states that WSL is available and you may continue, in which case you should skip this step. It is also possible that EPI2ME will need to update the version of WSL you have.

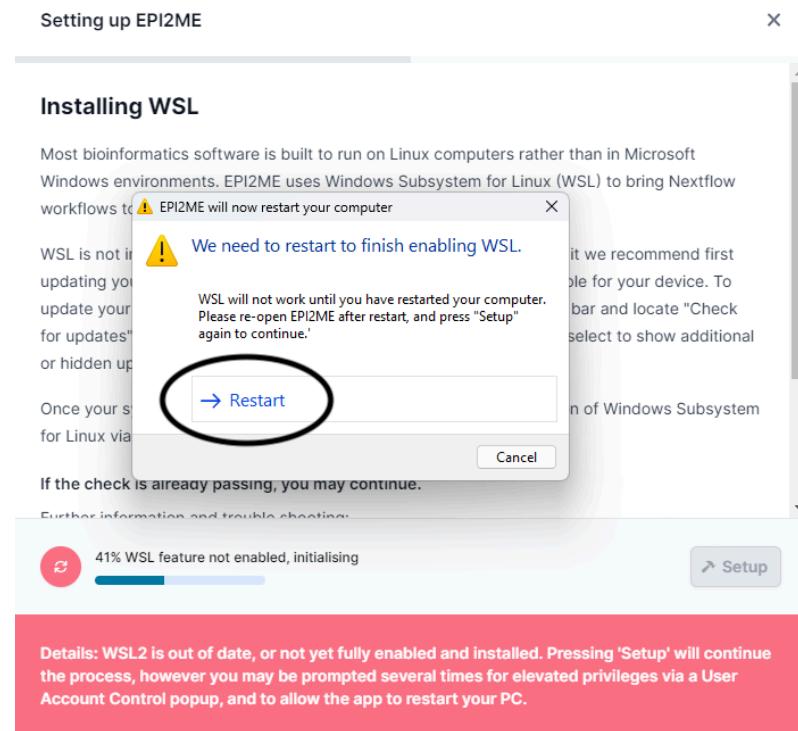


Step 7:

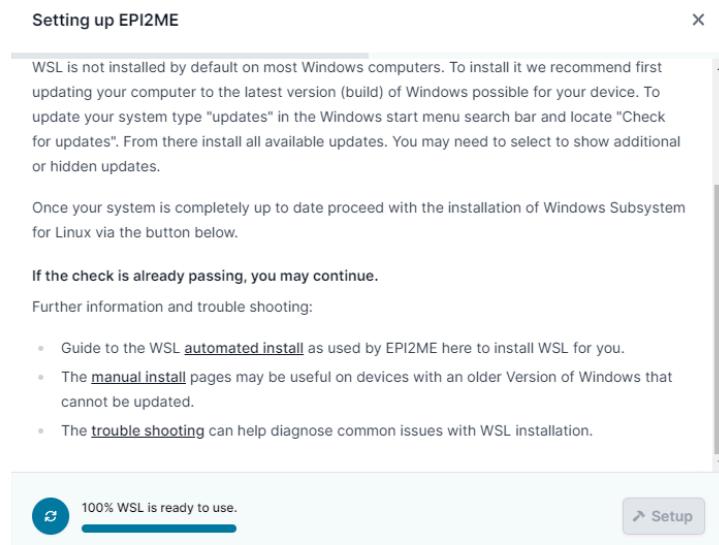
If newly installing WSL, you should receive multiple popups asking for permission to run Powershell as an administrator, when you see these you should give them permission.

When this popup appears asking to restart to finish installing, select the Restart option.

Once you have restarted your PC relaunch EPI2ME desktop using the desktop shortcut then repeat steps 4 to 6 to continue setting up WSL, you may have to do this multiple times.

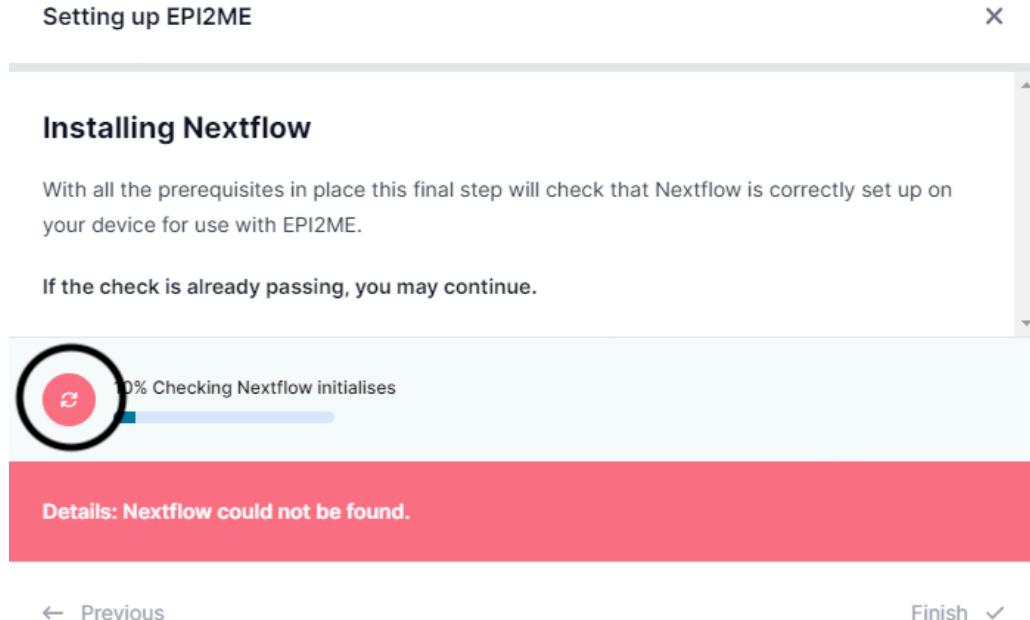


When WSL is fully installed you should see the following, when you do click “Continue”

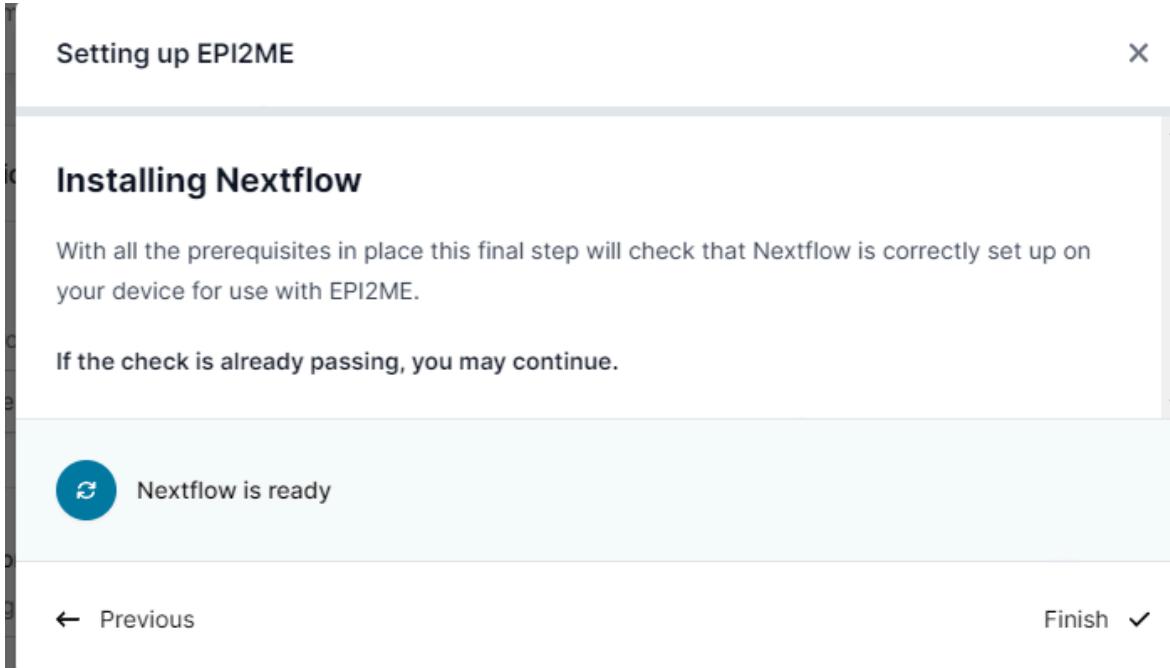


Step 8:

You may see a message which says that “Nextflow could not be found”. If you do click the retry button circled below and wait, the check should then pass.



After which you should see the following, congratulations, you have successfully installed EPI2ME desktop!



Step 9:

Next, download the MinKNOW installer by clicking the following link:

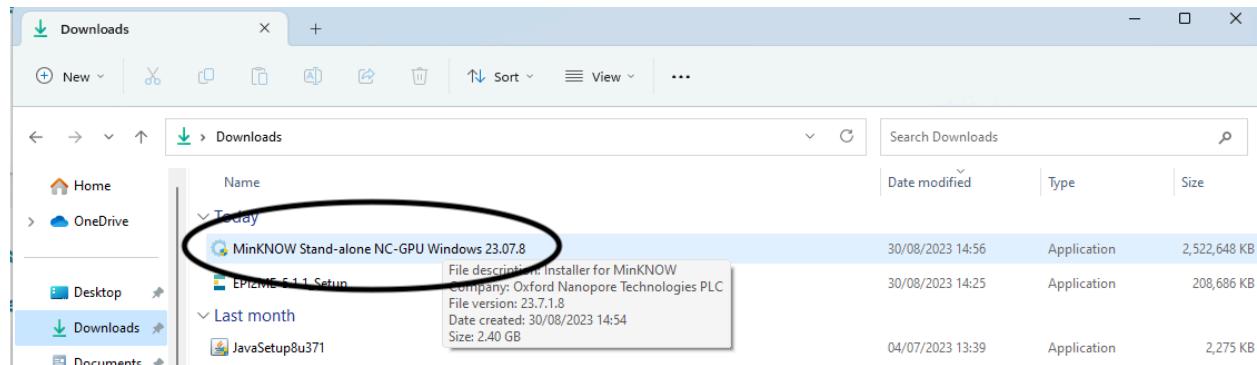
<https://cdn.oxfordnanoportal.com/software/MinKNOW%20Stand-alone%20NC-GPU%20Windows%202024.06.5.exe>

Or going to the following page:

<https://community.nanoporetech.com/downloads>

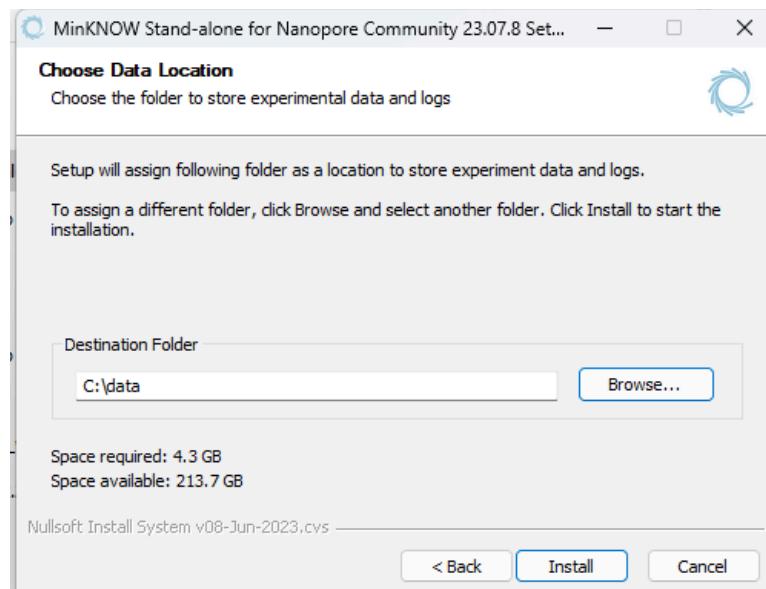
Step 10:

Run the installer by double clicking it in the directory it was downloaded to.



Step 11:

When the installer window pops up, make sure you set the “Destination Folder” option to the storage device you wish to store sequencing reads (we recommend a high capacity solid state drive (SSD) for this purpose). If you wish to change from the default directory, you can do so with the “Browse” option.



Once the installer has finished, you will have installed all required software!

MacOS:

Requirements:

- Administrator access to your device.
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Step 1:

For Apple processor based MacBooks (ARM64) download the EPI2ME installer from the following link:

<https://ont-exd-int-s3-euwst1-epi2me-labs.s3.amazonaws.com/installers/EPI2ME-arm64-5.1.1.pkg>

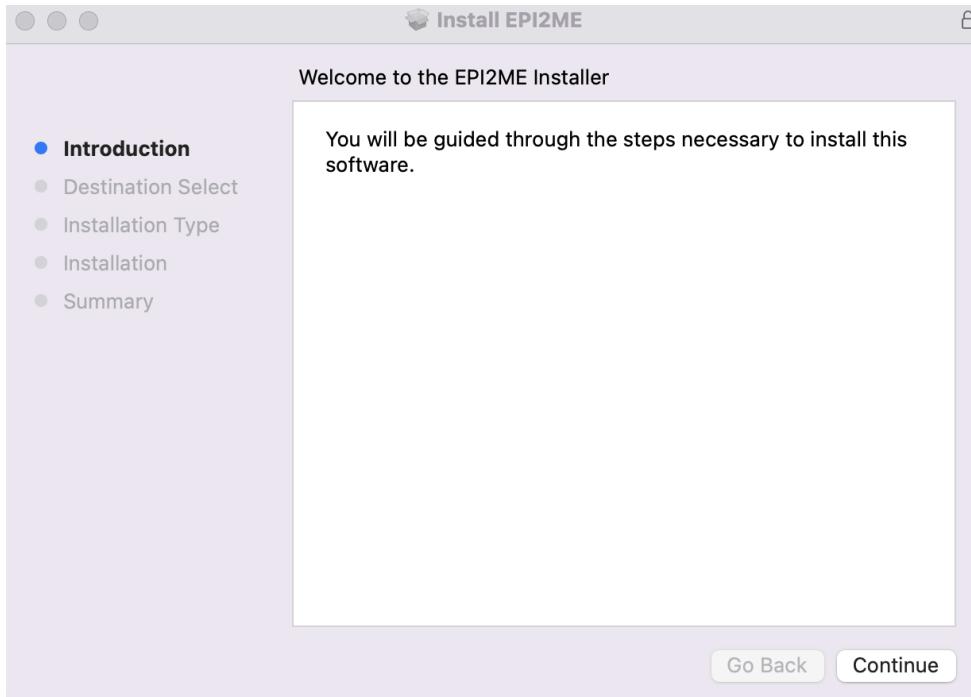
For Intel CPU MacBooks instead, download the EPI2ME installer from the following link:

<https://ont-exd-int-s3-euwst1-epi2me-labs.s3.amazonaws.com/installers/EPI2ME-x86-5.1.1.pkg>

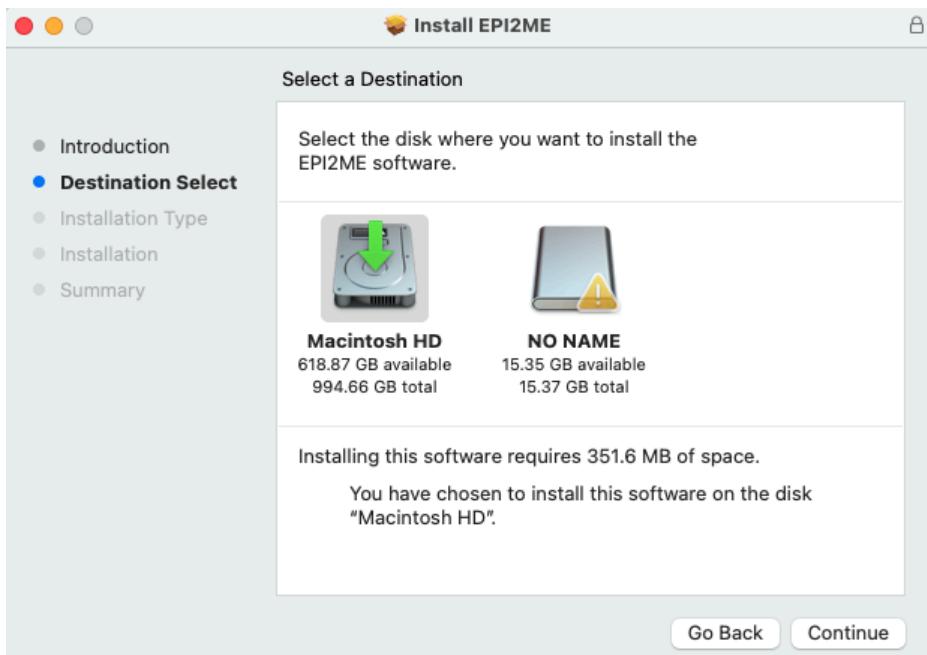
We do not have access to an Intel MacBook to test these instructions unfortunately, however, we expect that they are likely to be very similar.

Step 2:

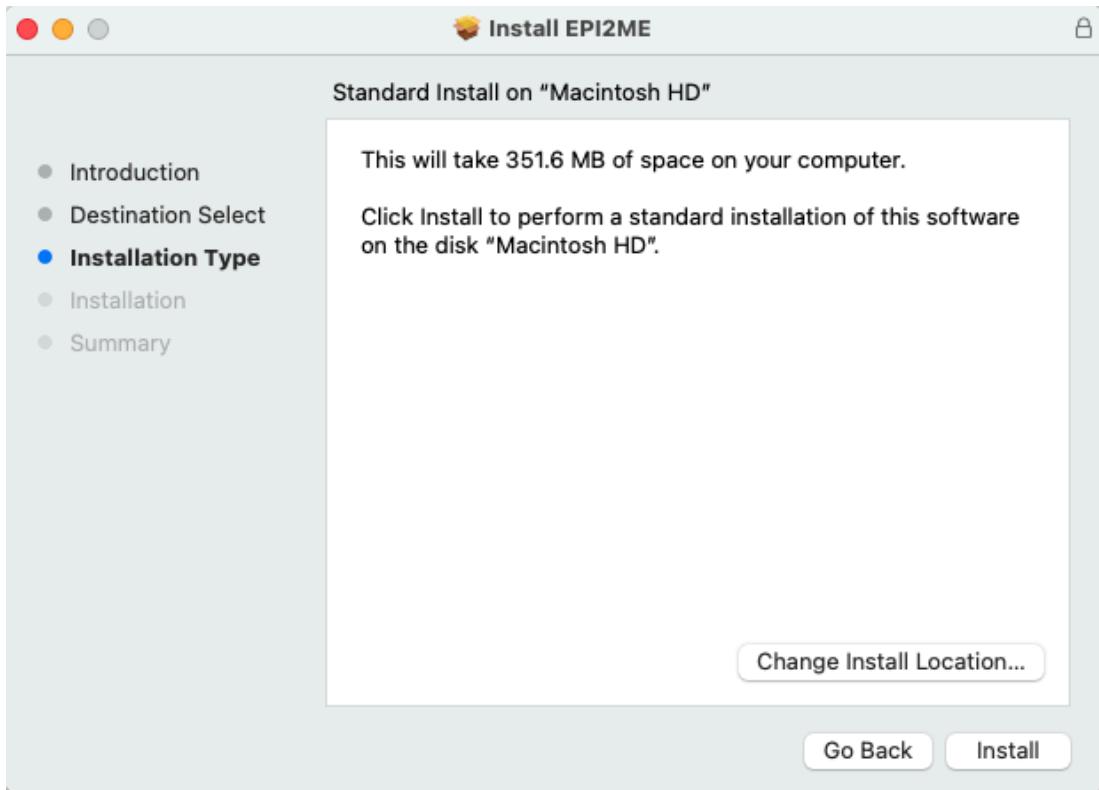
Next, start the installer by double clicking the downloaded .pkg file, you should see this window appear.



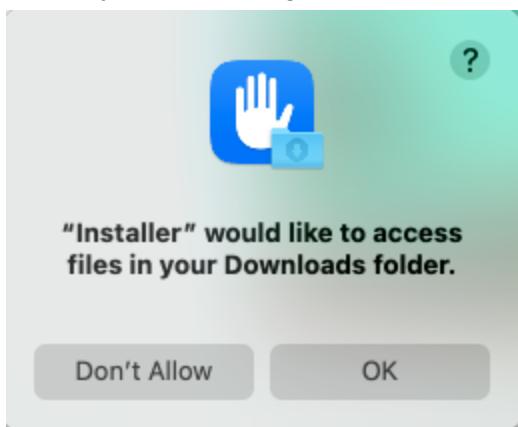
Next select which storage device you wish to install EPI2ME files onto, this should be the internal storage device in almost all circumstances. Press "Continue".



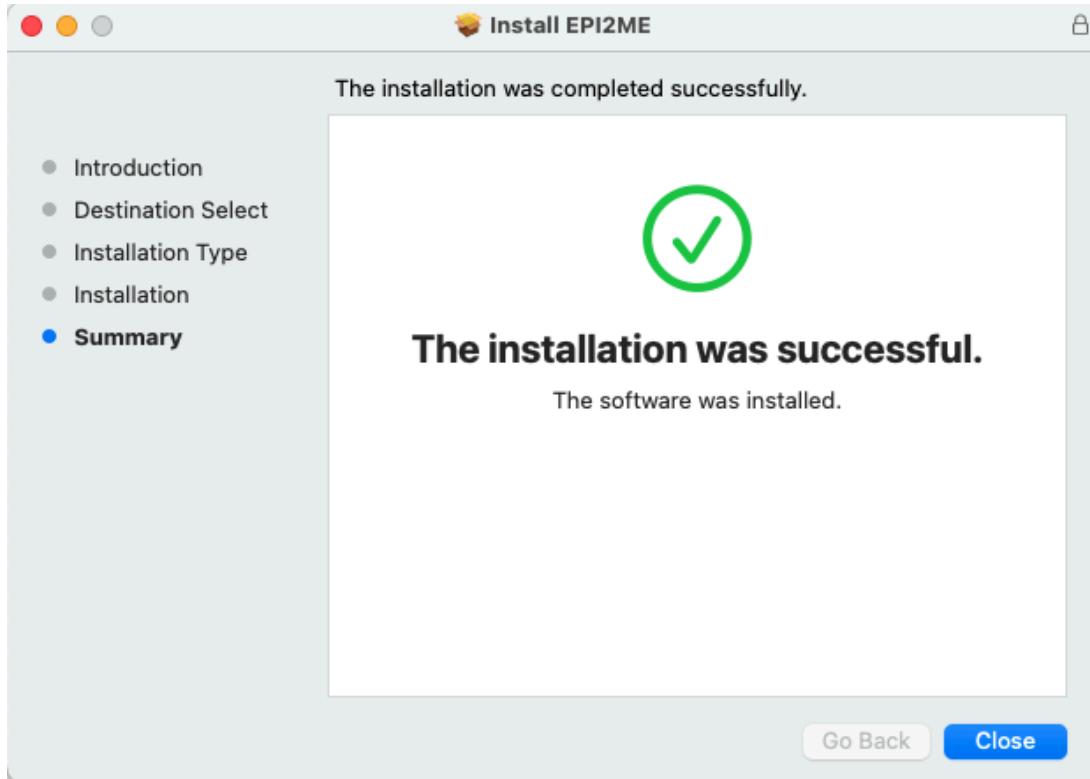
When you see this window, please confirm that the expected storage device is selected, then press “Continue”



You may be asked to give the installer access to your Downloads folder, select “OK” to continue.

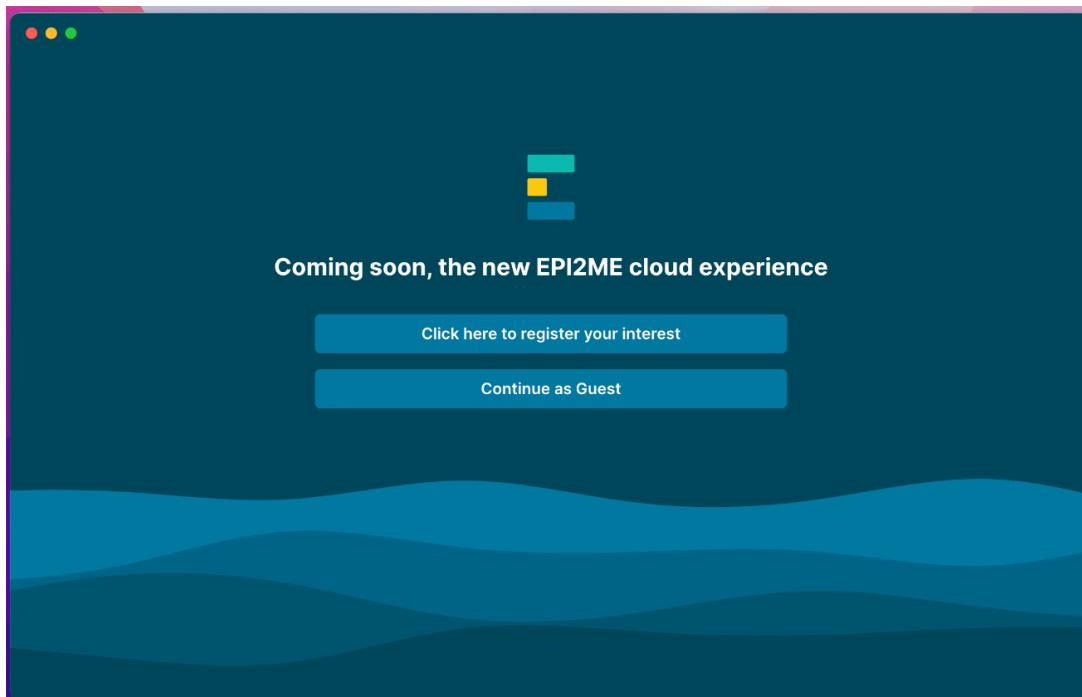


When you see this window, you have successfully installed EPI2ME, please press "Close" to finish



Step 3:

Next, run EPI2ME from your launcher of choice (default is Launchpad), then select “Continue as Guest” to proceed.



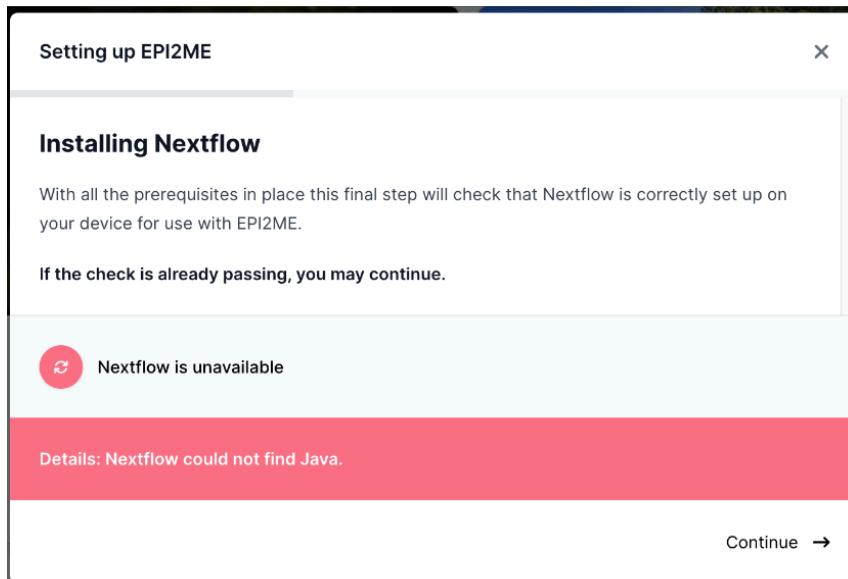
Then select the “Setup EPI2ME launcher” option. This will attempt to automatically install the requirements to run EPI2ME pipelines.

A screenshot of the EPI2ME application's dashboard. The top navigation bar includes a back arrow, a search bar with the placeholder "Search workflows and analyses", and a user status indicator "Logged in as Guest". On the left, there is a vertical sidebar with icons for Dashboard, Workflows, Analyses, and Help. The main content area starts with a "Dashboard" section containing three cards: "Setup EPI2ME Launcher" (with a gear icon), "View workflows" (with a wrench icon), and "Track analyses" (with a circular arrow icon). Below this is a "Latest updates" section featuring three cards with images and titles: "EPI2ME Installation" (image of a laptop screen displaying a 3D model), "EPI2ME 23.08-01 Release" (image of a crocodile's head), and "The road not taken" (image of a river flowing through a forest). At the bottom of the dashboard, there is a footer with links for "Documentation", "Help", "Support", and "Feedback".

Step 4:

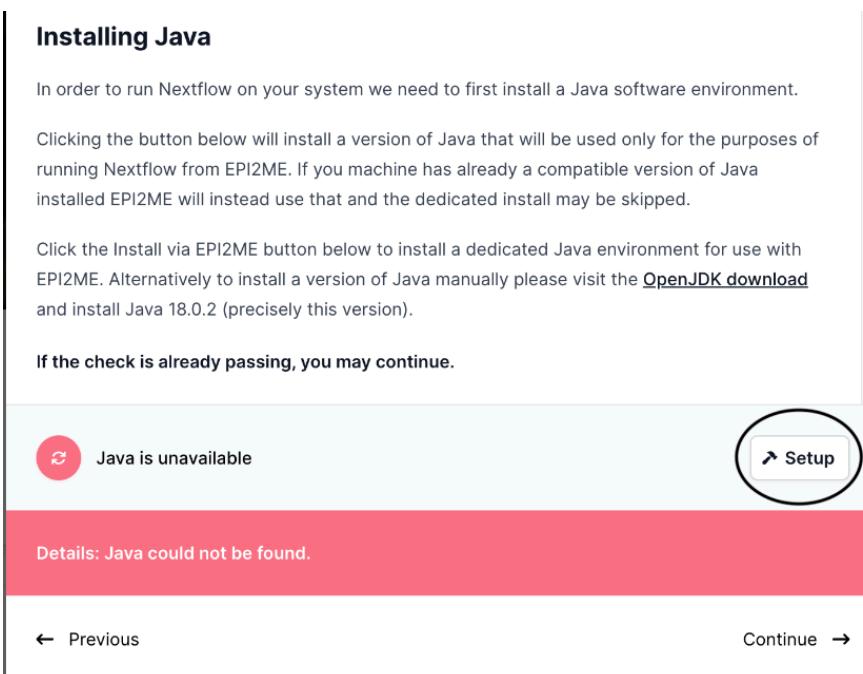
First EPI2ME will attempt to determine whether Nextflow has been installed, EPI2ME states that this is the final check but it appeared to run first when installing on a test machine (M2 MacBook Pro), it is unclear whether this behavior is intentional.

Press Continue to proceed, we will return to confirm nextflow has been properly installed later.

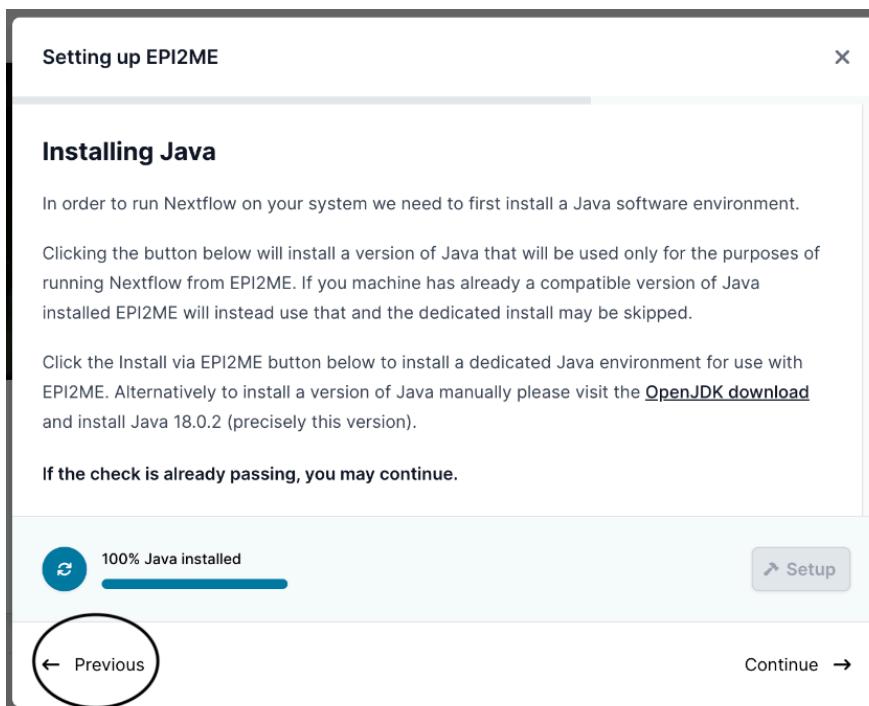


Step 5:

Next, EPI2ME will attempt to install Java, press “Setup” to attempt to do so automatically.

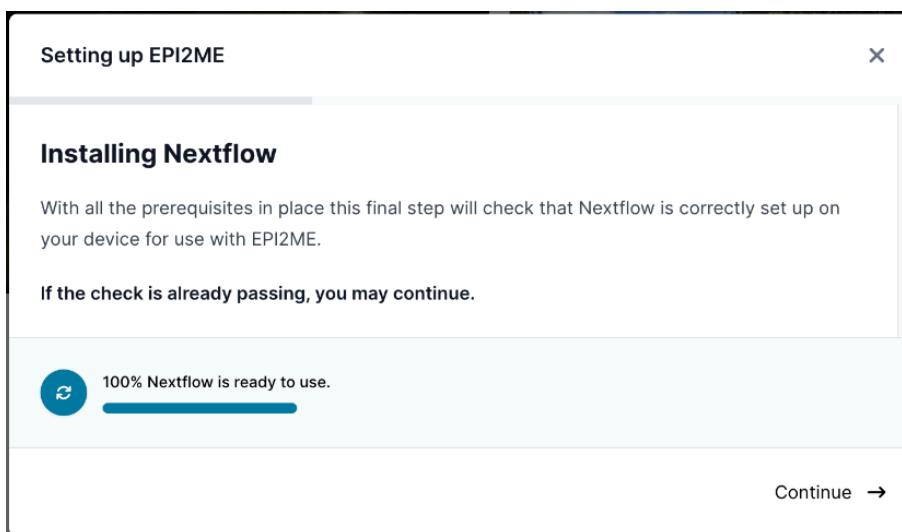


When you see the following screen “Press **Previous**”.



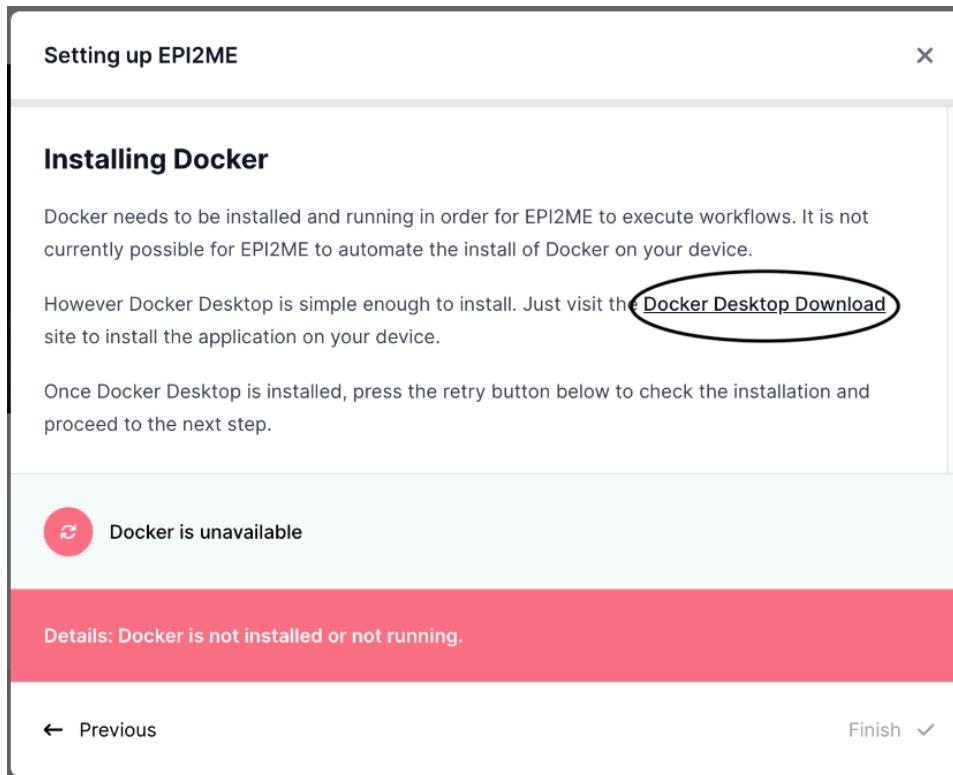
Step 6:

Wait until you see this screen which confirms that nextflow has been properly installed on your device. Press “Continue” to proceed, then press “Continue” again on the previously completed Java installation screen.



Step 7:

Next you will have to manually install docker desktop since unfortunately EPI2ME is unable to do this automatically. Click the circled link to go to the docker desktop page.

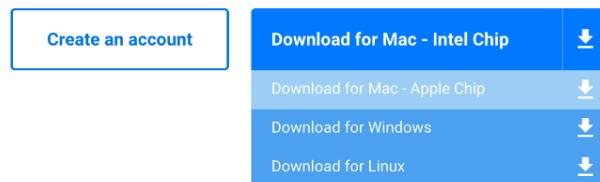


Step 8:

Download the appropriate installer for your device from the drop-down menu.

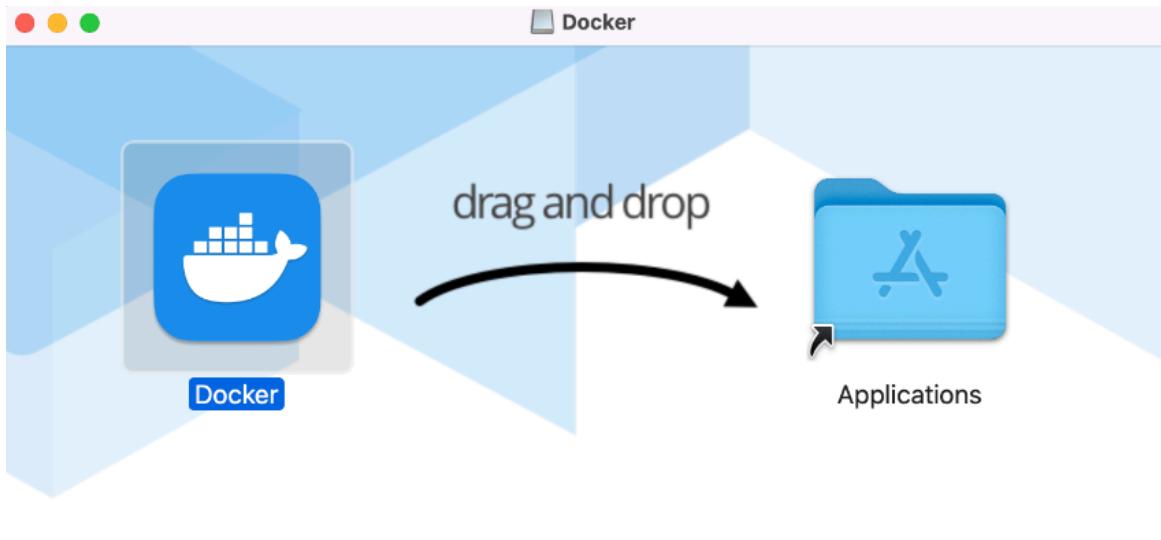
Docker Desktop
The #1 containerization software for developers and teams

Your command center for innovative container development



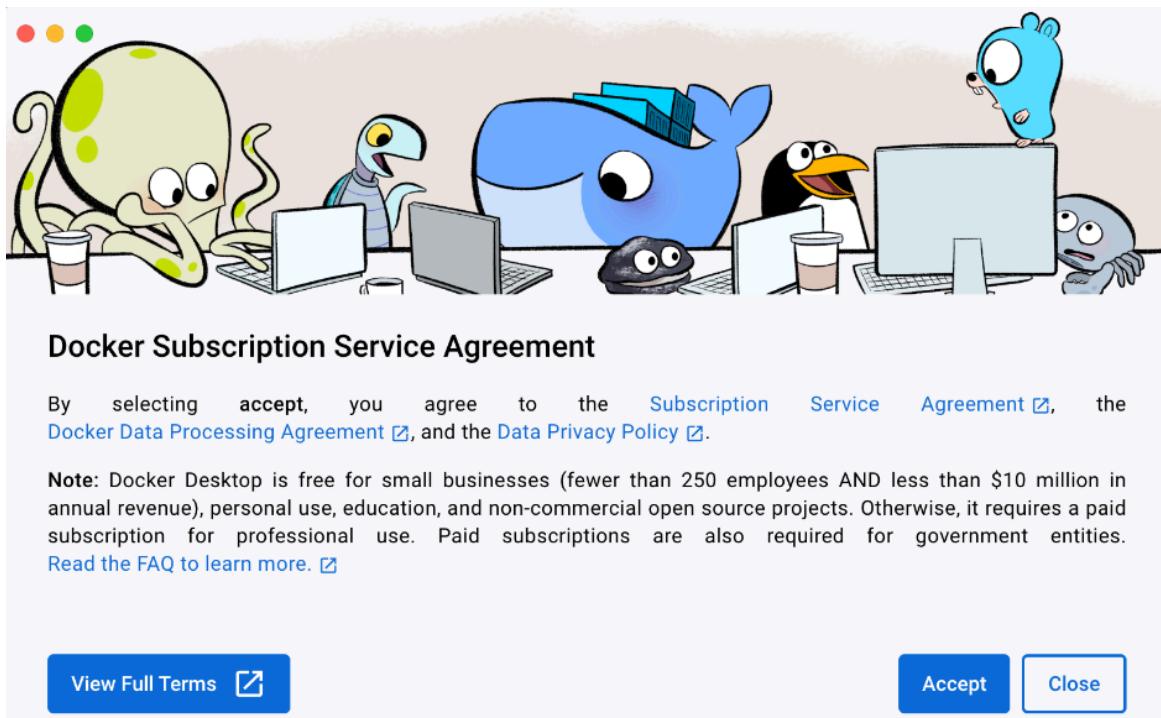
Step 9:

Double click the downloaded installer, at which point you should see this window appear. Drag docker to the applications folder shortcut in this window to install. Once this has completed, close the installer.

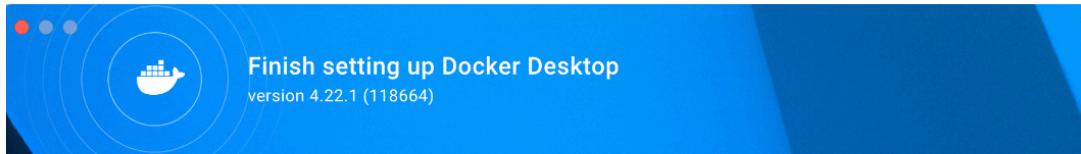


Step 10:

Next, run docker from your launcher of choice (default is Launchpad), you should see the below window. Once you have carefully read the full terms and conditions, press "Accept" to continue.



When you see this screen, select “Use recommended settings”, then finish to complete docker setup.



Complete the installation of Docker Desktop. The configurations below can be changed later in Settings.

Use recommended settings (requires password)

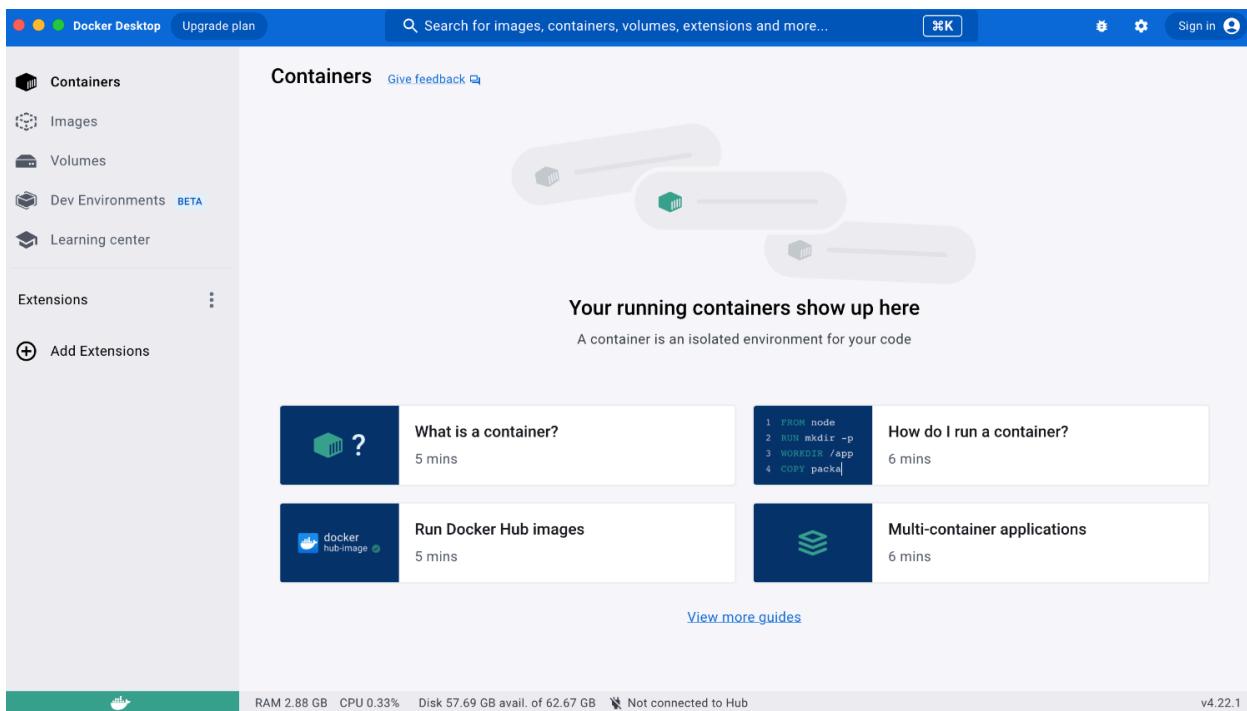
Docker Desktop automatically sets the necessary configurations that work for most developers.

Use advanced settings

You manually set your preferred configurations.

Finish

Once you see the below screen, you have successfully installed docker, close the window then return to EPI2ME.



Step 11:

You should now see a window stating that Docker is installed and ready to use, if you do not, select the circled refresh button to check again which will pass if Docker has been installed correctly and is running. EPI2ME is now fully set up and ready to use, press “Finish” to close the window.

Setting up EPI2ME



Installing Docker

Docker needs to be installed and running in order for EPI2ME to execute workflows. It is not currently possible for EPI2ME to automate the install of Docker on your device.

However Docker Desktop is simple enough to install. Just visit the [Docker Desktop Download](#) site to install the application on your device.

Once Docker Desktop is installed, press the retry button below to check the installation and proceed to the next step.



100% Docker is online and ready to use.

← Previous

Finish ✓