



Checking the DoD and ECA Trust Chain on MacOS

OpenSC: OpenSC is a 3rd party software designed to allow a Mac operating system to read Smartcards and Cryptographic USB Tokens. This Software does not have an interface to open, once installed you will only see it when you go to use your smartcard/USB on a website or application. The PIN for your smartcard/USB must be all numbers to be able to be used on a MacOS, if there are letters in the PIN then you will find errors when going to use it.

Step 1: Start by going to <https://github.com/opensc/opensc/releases/tag/0.23.0>

The screenshot shows a web browser window displaying the GitHub release page for OpenSC 0.23.0. The page header includes the GitHub logo, navigation links (Product, Solutions, Resources, Open Source, Enterprise, Pricing), a search bar, and 'Sign in' and 'Sign up' buttons. Below the header, the repository 'OpenSC / OpenSC' is shown as 'Public', with 'Notifications', 'Fork 718', and 'Star 2.5k' buttons. The main content area is titled 'Releases / 0.23.0' and features a 'Compare' button. The release information states 'Jakuje released this Nov 29, 2022 · 907 commits to master since this release · 0.23.0 · 5497519'. A section titled 'New in 0.23.0; 2022-11-29' contains a 'General improvements' list:

- Support signing of data with a length of more than 512 bytes (#2314)
- By default, disable support for old card drivers (#2391) and remove support for old drivers MioCOS and JCOP (#2374)
- Bump minimal required OpenSSL version to 1.1.1 and add support for OpenSSL 3.0 (#2438, #2506)
- Compatibility with LibreSSL (#2495, #2595)
- Remove support for DSA (#2503)
- Extend p11test to support symmetric keys (#2430)
- Notice detached reader on macOS (#2418)
- Support for OAEP padding (#2475, #2484)

The bottom of the image shows a macOS dock with various application icons.



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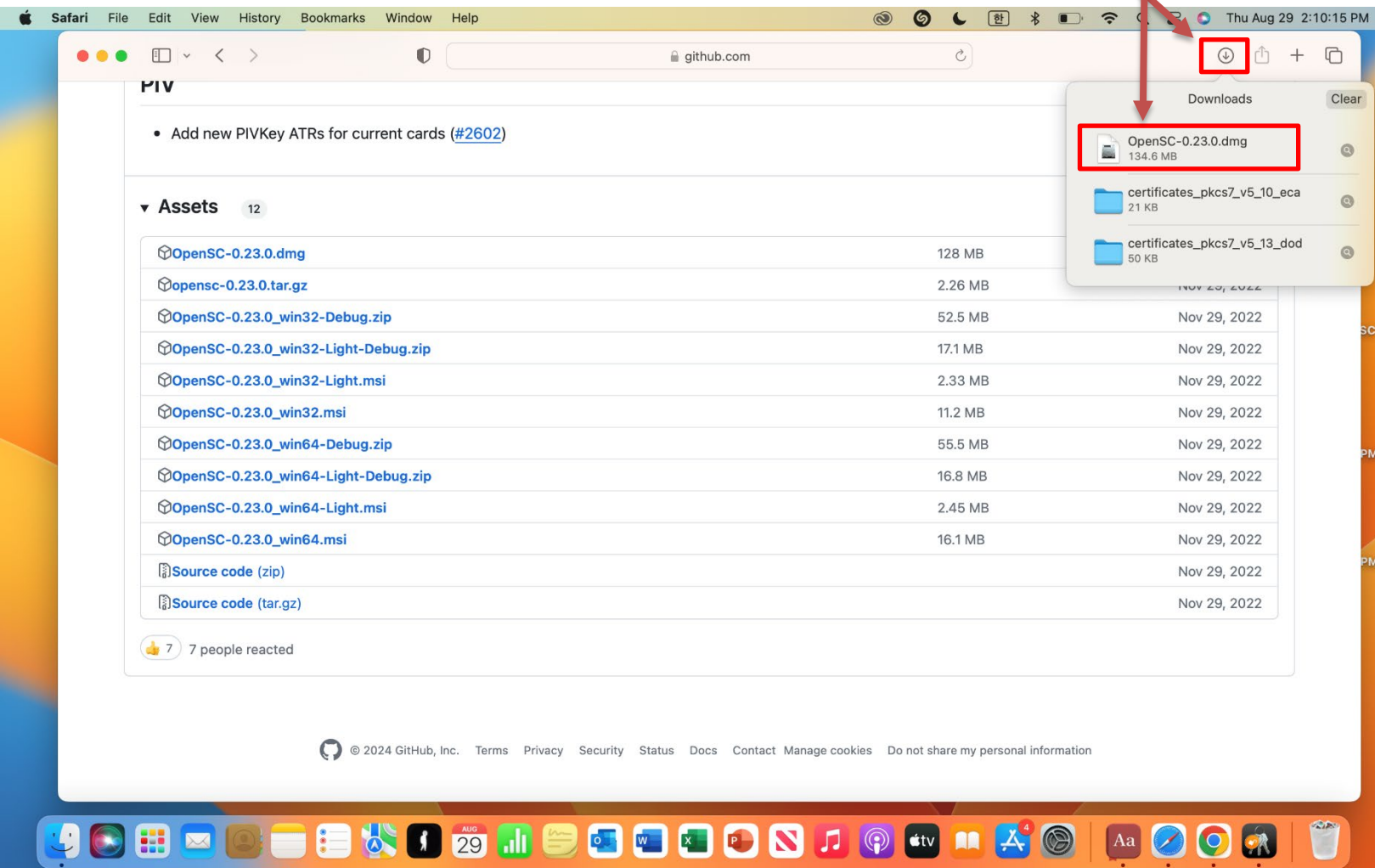
Step 2: Scroll to the bottom of the page and select “OpenSC-0.23.0.dmg” from the “Assets” list.

The screenshot shows a web browser window displaying a GitHub repository page for PIVKey. The page title is "PIVKey". Below the title, there is a list of issues, including "Add new PIVKey ATFs for current cards (#2602)". The "Assets" section is expanded, showing a list of 12 assets. The first asset, "OpenSC-0.23.0.dmg", is highlighted with a red box and a red arrow pointing to it. The other assets include "opensc-0.23.0.tar.gz", "OpenSC-0.23.0_win32-Debug.zip", "OpenSC-0.23.0_win32-Light-Debug.zip", "OpenSC-0.23.0_win32-Light.msi", "OpenSC-0.23.0_win32.msi", "OpenSC-0.23.0_win64-Debug.zip", "OpenSC-0.23.0_win64-Light-Debug.zip", "OpenSC-0.23.0_win64-Light.msi", "OpenSC-0.23.0_win64.msi", "Source code (zip)", and "Source code (tar.gz)". The page footer shows the GitHub logo and copyright information: "© 2024 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information".

Asset Name	Size	Created
OpenSC-0.23.0.dmg	128 MB	Nov 29, 2022
opensc-0.23.0.tar.gz	2.26 MB	Nov 29, 2022
OpenSC-0.23.0_win32-Debug.zip	52.5 MB	Nov 29, 2022
OpenSC-0.23.0_win32-Light-Debug.zip	17.1 MB	Nov 29, 2022
OpenSC-0.23.0_win32-Light.msi	2.33 MB	Nov 29, 2022
OpenSC-0.23.0_win32.msi	11.2 MB	Nov 29, 2022
OpenSC-0.23.0_win64-Debug.zip	55.5 MB	Nov 29, 2022
OpenSC-0.23.0_win64-Light-Debug.zip	16.8 MB	Nov 29, 2022
OpenSC-0.23.0_win64-Light.msi	2.45 MB	Nov 29, 2022
OpenSC-0.23.0_win64.msi	16.1 MB	Nov 29, 2022
Source code (zip)		Nov 29, 2022
Source code (tar.gz)		Nov 29, 2022

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Step 3: Select the download icon in the top right and double click on the newly downloaded “OpenSC-0.23.0.dmg”.



The screenshot shows a Safari browser window displaying the GitHub repository for OpenSC. The 'Assets' tab is selected, showing a list of download links. A red arrow points from the download icon in the top right corner of the browser to the 'OpenSC-0.23.0.dmg' file in the Downloads folder.

Assets 12

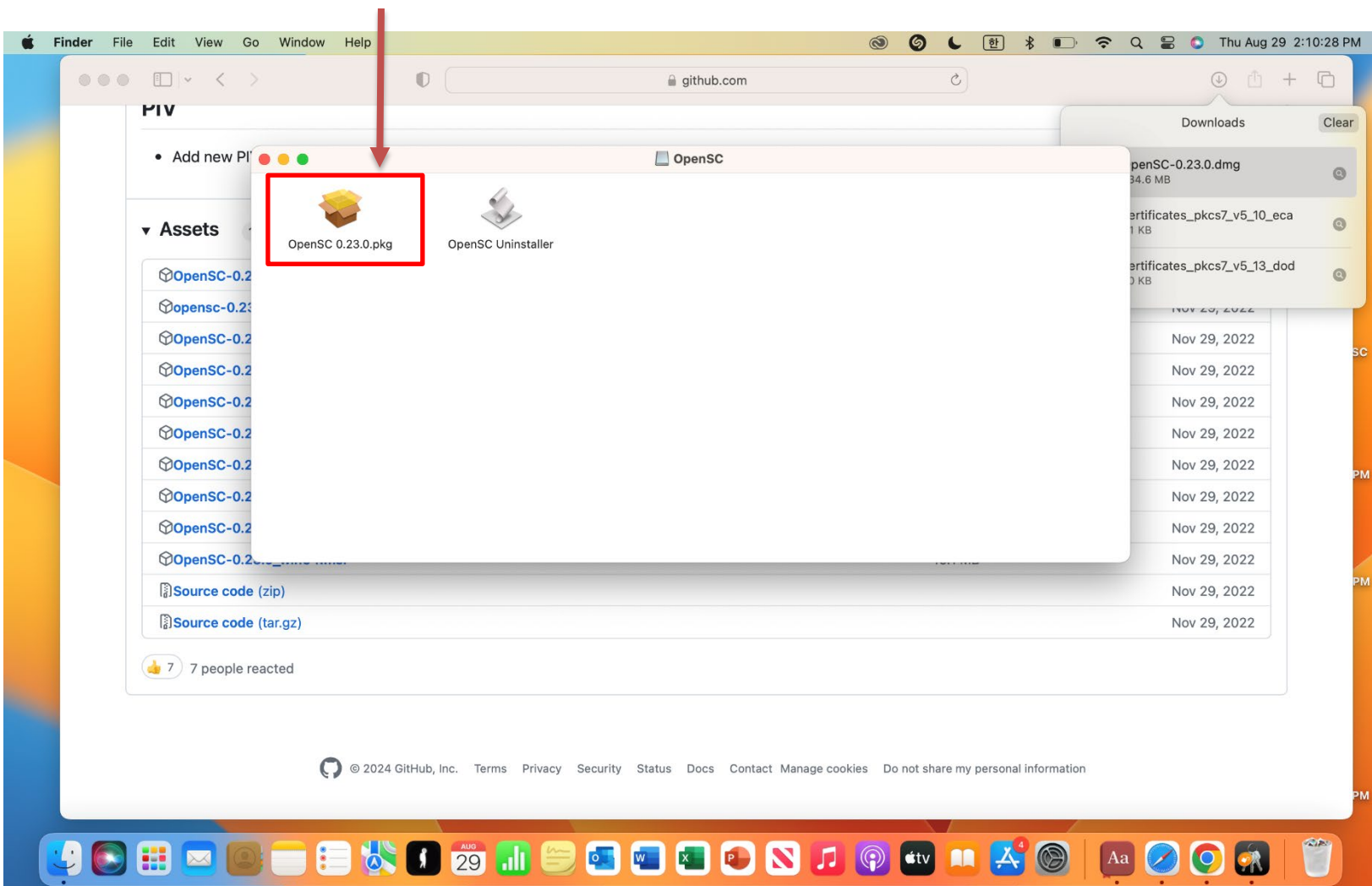
Asset	Size	Downloaded
OpenSC-0.23.0.dmg	128 MB	
opensc-0.23.0.tar.gz	2.26 MB	
OpenSC-0.23.0_win32-Debug.zip	52.5 MB	Nov 29, 2022
OpenSC-0.23.0_win32-Light-Debug.zip	17.1 MB	Nov 29, 2022
OpenSC-0.23.0_win32-Light.msi	2.33 MB	Nov 29, 2022
OpenSC-0.23.0_win32.msi	11.2 MB	Nov 29, 2022
OpenSC-0.23.0_win64-Debug.zip	55.5 MB	Nov 29, 2022
OpenSC-0.23.0_win64-Light-Debug.zip	16.8 MB	Nov 29, 2022
OpenSC-0.23.0_win64-Light.msi	2.45 MB	Nov 29, 2022
OpenSC-0.23.0_win64.msi	16.1 MB	Nov 29, 2022
Source code (zip)		Nov 29, 2022
Source code (tar.gz)		Nov 29, 2022

7 people reacted

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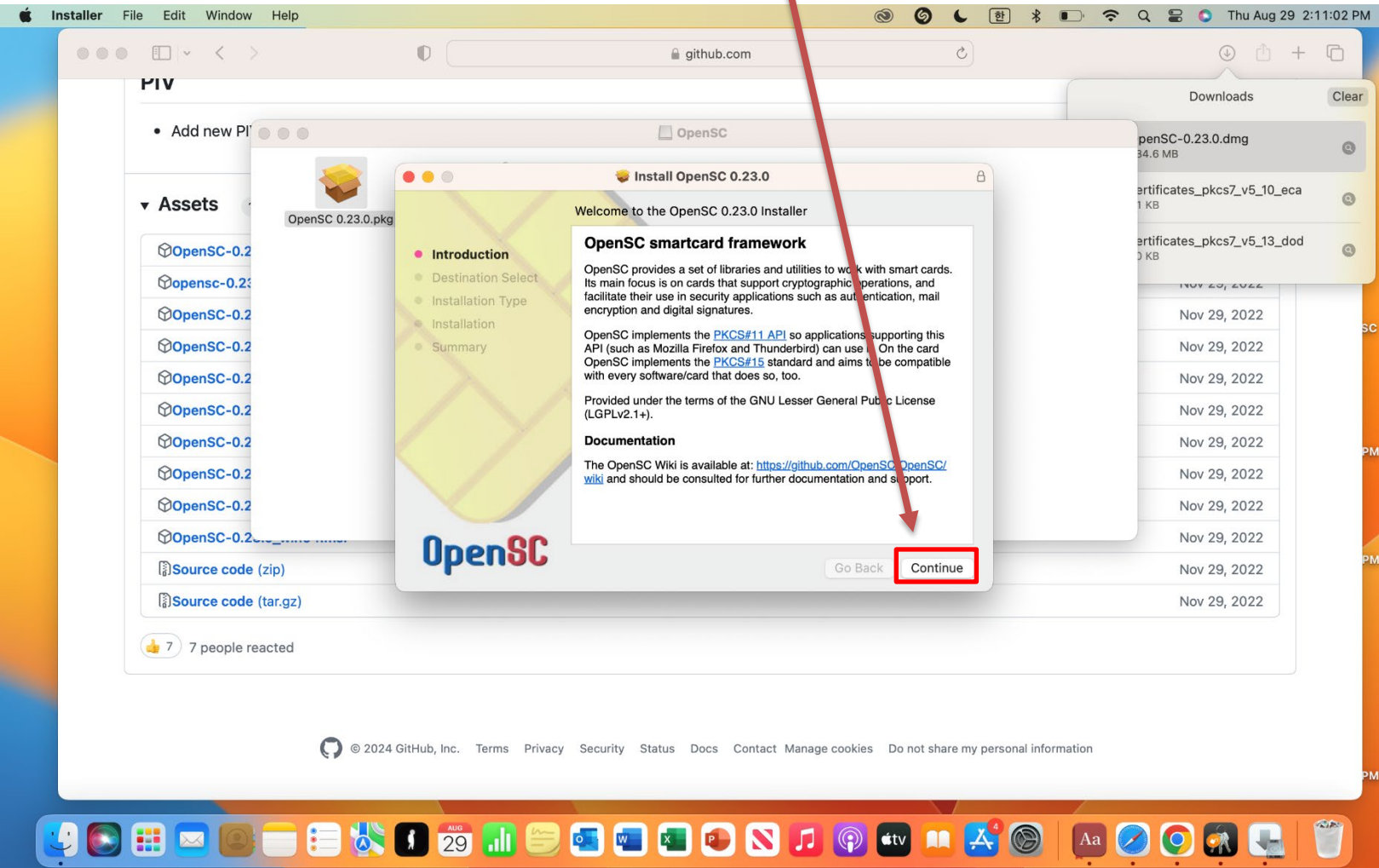
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Step 4: Double click on “OpenSC-0.23.0.pkg”.



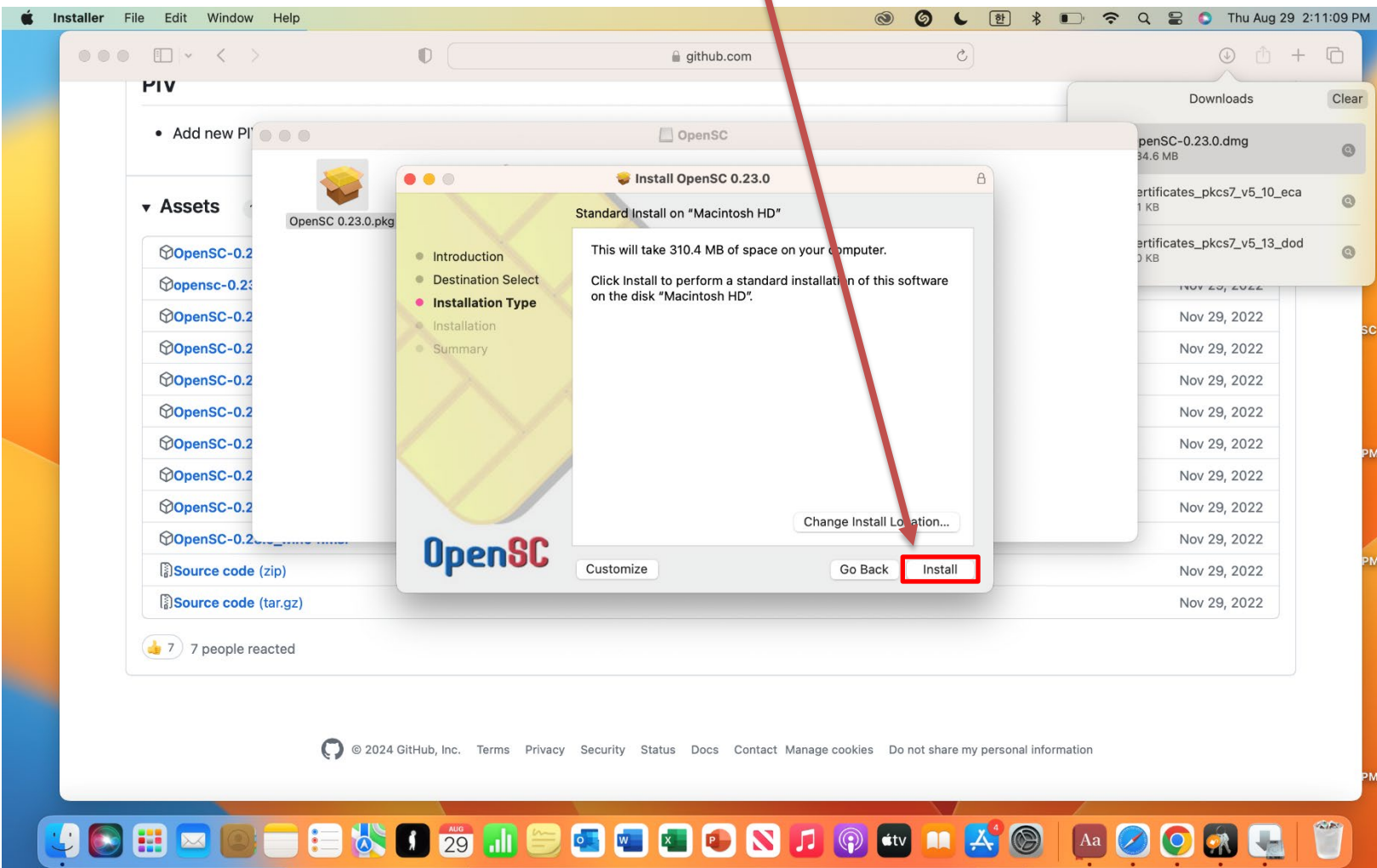
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Step 5: Select “Continue” on the installation screen.



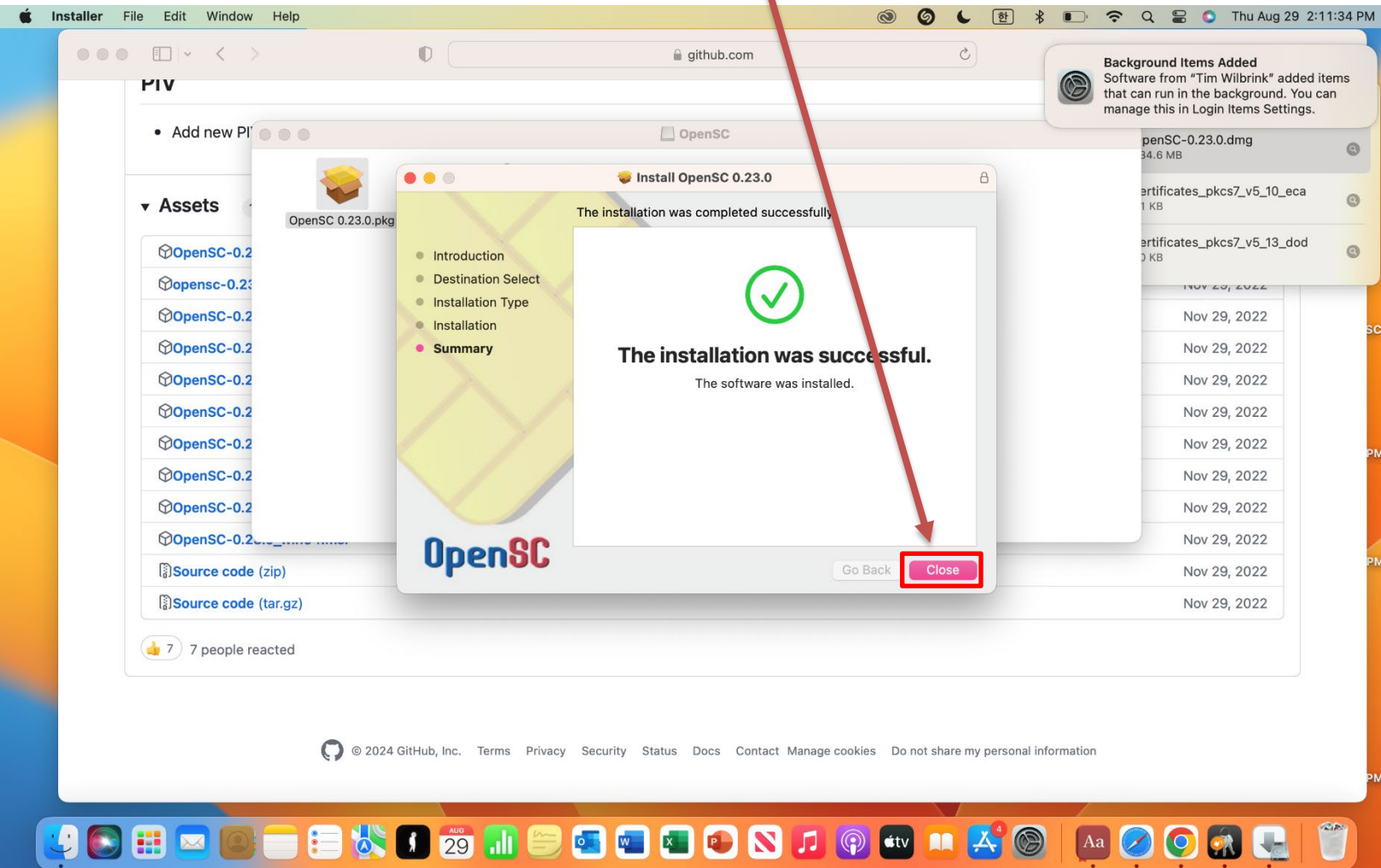
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Step 6: Select “Install” on the installation screen.



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Step 7: Select “Close” on the installation screen.





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Step 8: Select “Move to Trash” on the popup window.

