

Installing ghidra

on Mac x64/M1/M2, Linux x64, Windows x64

1. On Mac (x64)

We will be using 'homebrew' to install ghidra and JDK.

1-1. Install Homebrew

We will be using `brew` program to install ghidra and JDK.

First, we need to install `brew` which you can find the installation instruction on <https://brew.sh/>

To install, run the following command

```
$ /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

1-2. Install ghidra

Run the following command:

```
$ brew install --cask ghidra
```

1-3. Download and Install JDK

- Go to <https://adoptium.net/temurin/releases/>
- Go to 'macOS', 'x64', and download "JDK - 188 MB [.pkg]."
 - It (the `.pkg` file) is an installer executable file. Execute the file and follow the installation process (do not change any options. Just click 'Next' until it finishes the installation).

	macOS	x64	JDK - 188 MB Checksum 
			JDK - 187 MB Checksum 
			JRE - 44 MB Checksum 
			JRE - 43 MB Checksum 

1-4. Execute ghidra

- Open a terminal (`terminal.app`) and type `ghidraRun`

```
$ ghidraRun
```

2. On Mac (M1/M2)

We will be using 'homebrew' to install ghidra and JDK.

1-1. Install Homebrew

We will be using `brew` program to install ghidra and JDK.

First, we need to install `brew` which you can find the installation instruction on <https://brew.sh/>

To install, run the following command

```
$ /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

1-2. Download and Install JDK

- Go to <https://adoptium.net/temurin/releases/>
- Go to 'macOS', 'aarch64', and download "JDK - 178 MB [.pkg]."
 - It (the `.pkg` file) is an installer executable file. Execute the file and follow the installation process (do not change any options. Just click 'Next' until it finishes the installation).
 - Be sure to install the `aarch64` build of your preferred JDK, *not the x64 build*.

The screenshot shows the Adoptium website interface. On the left, a dark card displays 'jdk-17.0.8.1+1', 'Temurin' with a checkmark and a red circle, and the date 'August 29, 2023'. The main content area is divided into columns for 'macOS' and 'aarch64'. On the right, there are four download options: 'JDK - 178 MB' with a '.pkg' button and a 'Checksum' link; 'JDK - 177 MB' with a '.tar.gz' button and a 'Checksum' link; 'JRE - 36 MB' with a '.pkg' button and a 'Checksum' link; and 'JRE - 36 MB' with a '.tar.gz' button and a 'Checksum' link.

1-3. Install ghidra

Run the following command:

```
$ brew install --cask ghidra
```

1-4. Install gradle

Run the following command:

```
$ brew install gradle
```

You will also need the Xcode Command Line Tools installed. (These are already installed if you have Homebrew.) Run the `clang` command in Terminal, and macOS will prompt you to install the command line tools.

1-5. Run `buildNatives`

Navigate to the support folder in your Ghidra installation directory, and run the `buildNatives` script:

Substitute your Ghidra version into the path below (of x characters)

```
$ cd /opt/homebrew/Caskroom/ghidra/xx.x.x-xxxxxxx/ghidra_xx.x.x_PUBLIC/support
```

```
$ ./buildNatives
```

1-6. Execute ghidra

- Open a terminal (`terminal.app`) and type `ghidraRun`

```
$ ghidraRun
```

3. On Linux (x64)

3-1. Install JDK

Run the following command

```
$ sudo apt-get install openjdk-11-jdk
```

On Arch-based systems:

```
$ sudo pacman -S jdk11-openjdk
```

On Fedora/CentOS/RHEL systems:

```
$ sudo dnf install java-latest-openjdk
```

3-2. Download and Extract ghidra

- Go to <https://github.com/NationalSecurityAgency/ghidra/releases> and Download ghidra_10.3.3_PUBLIC_20230829.zip
 - https://github.com/NationalSecurityAgency/ghidra/releases/download/Ghidra_10.3.3_build/ghidra_10.3.3_PUBLIC_20230829.zip

Ghidra 10.3.3 Latest

- [What's New](#)
- [Change History](#)
- [Installation Guide](#)
- SHA-256: `63833361bea8ef5ada1bc28cd2aa2ae4ab43204d2672b595500372582152eebe`

▼ Assets 3

 ghidra_10.3.3_PUBLIC_20230829.zip	351 MB	last week
 Source code (zip)		last week
 Source code (tar.gz)		last week

3-3. Execute ghidra

Move to the folder containing ghidraRun. Then, change the permission and run ghidraRun

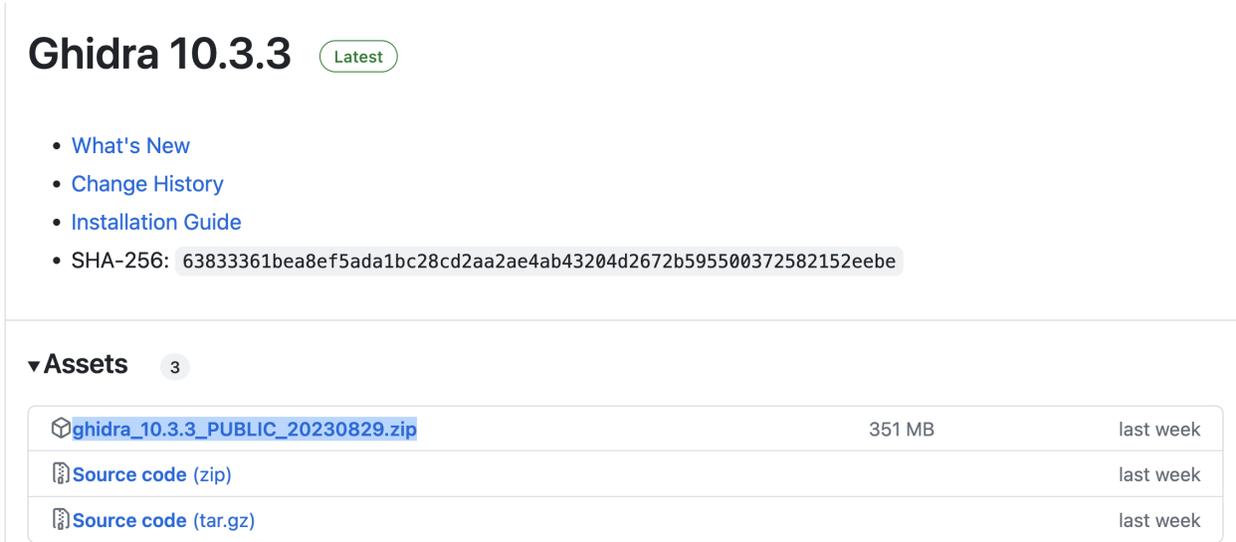
```
$ chmod +x ghidraRun
```

```
$ ./ghidraRun
```

4. On Windows (x64)

4-1. Download and Extract ghidra

- Go to <https://github.com/NationalSecurityAgency/ghidra/releases> and Download ghidra_10.3.3_PUBLIC_20230829.zip
 - https://github.com/NationalSecurityAgency/ghidra/releases/download/Ghidra_10.3.3_build/ghidra_10.3.3_PUBLIC_20230829.zip



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▼ **Assets** 3

 ghidra_10.3.3_PUBLIC_20230829.zip	351 MB	last week
 Source code (zip)		last week
 Source code (tar.gz)		last week

4-2. Download and Install JDK

- Go to <https://adoptium.net/temurin/releases/>
- Go to 'Windows', 'x64', and download "JDK - 167 MB [.msi]."
 - It (the **.msi file**) is an installer executable file. Execute the file and follow the installation process (do not change any options. Just click 'Next' until it finishes the installation).



<p>jdk-17.0.8.1+1 Temurin   August 29, 2023</p>	Windows	x64	JDK - 167 MB Checksum 
			JDK - 189 MB Checksum 
			JRE - 31 MB Checksum 
			JRE - 43 MB Checksum 

4-3. Execute ghidra

- Run ghidraRun.bat
- If the below warning is shown, click 'More info' and then 'Run anyway'.

