

Smile Guide: Downloading and Installing JDK

An extension of Smile Guide: Installing Smile CDR



Table of Contents

What to Expect	1
Background	1
Objectives	1
Prerequisites	1
Downloading Java - MacOS (2019 Model or Older)	2
Downloading Java - MacOS (2020 Model or Newer)	5
Downloading Java - Windows	8



What to Expect

🕘 Reading time = 10min

By the end of this document you will understand the process of installing Java on a Mac or Windows operating system.

Background

While installing Smile CDR, you may encounter a Java runtime error that can be resolved by installing a JRE (Java Runtime Environment) or JDK (Java Developer Kit). Smile CDR will run against a simple JRE (the JDK is not required to use Smile CDR), but the JDK does come with many tools which can be useful for troubleshooting issues (e.g. jstack, jmap, etc.). The JDK versions supported by Smile CDR are Java 16 and Java 11. Although Java 16 is a newer release, Java 11 is the only long-term supported version and is the JDK we suggest you install. This step-by-step guide will explain how to install a JDK, so that your computer can run Java applications such as Smile CDR.

Objectives

The intent of this document is to provide a step-by-step guide to downloading Java on your Mac or Windows computer. One should be able to successfully complete the installation with little to no technical background.

Prerequisites

There are no prerequisites required.



Installing Java—MacOS, Intel x86 processor (Mac 2019 Model or Older)

1. Let's download Java 11!

Open the following:

https://www.oracle.com/ca-en/java/technologies/javase-downloads.html

2. Click on Java 11, then click on MacOS and finally click on the installer.

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Java SE subscribers have more choices			
Also available for development, personal use, and to run other licen	sed Oracle products.		
Java 11 Java 8			
Java SE Development Kit 11.0.13			
Java SE subscribers will receive JDK 11 updates until at least Septem	ber of 2026.		
These downloads can be used for development, personal use, or to Oracle license.	run Oracle licensed products. Use for other purpo	es, including production or commercial	use, requires a Java SE subscription or another
JDK 11 software is licensed under the Oracle Technology Network Li	cense Agreement for Oracle Java SE.		
JDK 11.0.13 checksum Linux macOS Solaris Windows			/
Product/file description	File size	Download	
x64 DMG Installer	154.44 MB	jdk-11.0.13_	_osx-x64_bin.dmg
x64 Compressed Archive	154.93 MB	🔒 jdk-11.0.13	_osx-x64_bin.tar.gz

3. You'll be prompted to accept the Oracle Technology Network License Agreement for Oracle Java SE. Select the box to accept, then click download.

You must accept the Oracle Techr	ology Network License Agreement for Oracle Java SE to download this software.	×
reviewed and accept the Or	acle Technology Network License Agreement for Oracle Java SE	
	Download jdk-11.0.13_osx-x64_bin.dmg	

4. You'll then be asked to log into your Oracle account. If you don't have an account, click on "Create Account" at the bottom of the page, then fill out the necessary fields. You may be asked to verify your email address at some point in the process. Once this is complete, you may continue the installation process.



Oracle account sign in	
Username)
Password ()
Sign in	
Need help?	
Don't have an Oracle Account?	
Create Account	ļ
© Oracle Terms of Use Privacy Policy	

5. After you've signed in successfully, the download should begin. Once finished, **double click the file you downloaded:**

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	Create Account	
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È jdk-11.0.13_osxdmg ∧		Show All X

6. After some automatic initialization, a JDK 11.0.13 (or whatever version you've downloaded) disk will open with a .pkg file inside. **Double click on this file.** This process may prompt you to make changes to your device. If this pop up appears, **select "Yes."**





7. This folder contains the JDK Installer. **Follow the instructions on screen to install** (you will essentially start by selecting "continue" followed by "install" in the bottom right corner for a few steps). Exit the page by closing the installer pop up page.



8. Voila! You have now installed JDK on MacOS. You can proceed to the Smile CDR installation guide!



Installing Java–MacOS, ARM 64 (Mac 2020 Model or Newer)

Important Note on Rosetta 2

As of November 2020, all Apple laptops are manufactured with an Arm-based Silicone M1 chip. The only version of Java that is compatible with this chip is Java 17, however, Smile <u>does not</u> currently support this version. To rectify the problem, we must also install Rosetta 2, then JDK version 11, which Smile *does* support. Rosetta 2 is a tool that allows us to run older, non-native Intel x86 apps on the new Mac M1 chips.

There are generally two approaches to installing Rosetta 2

The first approach is done <u>prior</u> to installing a JDK and involves opening your terminal application and entering the following command:

softwareupdate --install-rosetta

This will launch the rosetta installer and you'll have to agree to a license agreement. Once this is done, you may install Java 11 by following the <u>Installation Instructions</u> below.

The second approach occurs <u>midway</u> through the JDK installation process. If you follow the Installation Instructions below, you will be automatically prompted to install Rosetta (assuming you haven't already installed Rosetta via the first approach). When this occurs, simply follow the instructions that appear on screen to install Rosetta, then you may proceed with the JDK installation.

Installation Instructions

1. Let's download Java 11, which is a JDK supported by Smile CDR.

Open the following <u>https://www.oracle.com/ca-en/java/technologies/javase-downloads.html</u>

2. Click on Java 11, then click on MacOS and finally click on the installer.



ORACLE	Q Products Ind	lustries Resources	Support Events	Developer	Partners		② View Accounts	Contact Sales
Java SE subscribers hav	e more choices							
Also available for development, persor	nal use, and to run other li	censed Oracle product	ts.					
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Java SE Development K Java SE subscribers will receive JDK 11 These downloads can be used for deve Oracle license.	it 11.0.13 updates until at least Sep elopment, personal use, o	stember of 2026 . r to run Oracle licensed	d products. Use for o	her purposes,	including productio	n or commercial	use, requires a Java SE s	ubscription or another
JDK 11 software is licensed under the 0	Dracle Technology Networ	k License Agreement f	for Oracle Java SE.					
JDK 11.0.13 checksum Linux macOS Solaris Win	dows						/	
Product/file description		File size				Download		
xó4 DMG Installer		154.44 MB				jdk-11.0.13_	osx-x64_bin.dmg	
x64 Compressed Archive		154.93 MB				jdk-11.0.13_	osx-x64_bin.tar.gz	

3. You'll be prompted to accept the Oracle Technology Network License Agreement for Oracle Java SE. **Select the box to accept, then click download.**

You must accept the Oracle Techn	ology Network License Agreement for Oracle Ja	X va SE to download this software.
reviewed and accept the Or	acle Technology Network License Agreement for	Oracle Java SE
	لى Download jdk-11.0.13_osx-x64_bin.dmg	

4. You'll then be asked to login to your Oracle account. If you do not have an account, click on "Create Account" at the bottom of the page, then fill out the necessary fields. You may be asked to verify your email address at some point in the process. Once this is complete, you may continue the installation process.



Oracle account sign in
Username 🚺
Password
Sign in
Need help?
Don't have an Oracle Account?
Create Account
© Oracle Terms of Use Privacy Policy

5. After you've signed in successfully, the download should begin. Once finished, **double click the file you downloaded:**

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	Signing in. Please wait Need help?	
	Don't have an Oracle Account? Create Account	
■ jdk-11.0.13_osxdmg ^		Show All X

6. After some automatic initialization, a JDK 11.0.3 (or whatever version you've downloaded) disk will open with a .pkg file inside. **Double click on this file.** This process may prompt you to make changes to your device. If this pop up appears, **select "Yes."**





7. This folder contains the JDK Installer. **Follow the instructions on screen to install** (you will essentially start by selecting "continue" followed by "install" in the bottom right corner for a few steps). Exit the page by closing the installer pop up page.



8. Voila! You have now installed JDK on MacOS. You can proceed to the Smile CDR Installation Guide.



Downloading Java - Windows

- Let's download Java 11!
 Open the following https://www.oracle.com/ca-en/java/technologies/javase-downloads.html
- 2. At the time of this document's creation, the most recent version is Java SE 16.0.2. Make sure you're on the "Windows" tab, then **click on the** <u>installer</u>.

Java SE Development Kit 16.0.2		
Thank you for downloading this release of the Java™ Platform, Standa programming language.	ard Edition Development Kit (JDK $^{\mathrm{M}}$). The JDK is a development environ	nment for building applications and components using the Java
The JDK includes tools useful for developing and testing programs wr	itten in the Java programming language and running on the Java plat	form.
JDK 16 software is licensed under the Oracle Technology Network Lice	ense Agreement for Oracle Java SE	
JDK 16.0.2 checksum		
Documentation Download		
Linux macOS Windows		
Product/file description	File size	Download
xó4 Installer	150.58 MB	▲ jdk-16.0.2_windows-x64_bin.exe
x64 Compressed Archive	168.8 MB	☐ jdk-16.0.2_windows-x64_bin.zip
Release information		
Installation Instructions		
Release Notes		
Documentation License		
Java SE 16 Licensing Information User Manual (includes third-party	licenses)	

3. The following pop-up may appear. **Select the box** to accept the Oracle Network License Agreement, **then select the download package.**



4. The JDK package will then begin downloading. Once complete, double click to open.



	10.0.2	
Thank you for downloading this release on programming language.	of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a	a development environment for building applications and components using the
The JDK includes tools useful for develop	p ^r	
JDK 16 software is licensed under the Ora	a You must accept the Oracle Technology Network License Agreement for	or Oracle Java SE to download this software.
JDK 16.0.2 checksum		
Documentation Download	I reviewed and accept the Oracle Technology Network License Ag Required	rreement for Oracle Java SE
Linux macOS Windows	Download jdk-16.0.2_windows-x64_bin	exe ک
Product/file description		
Product/file description	150.58 MB	, jdk-16.0.2_windows-x64_bin.exe

- 5. At this point, you'll receive a pop-up asking if you'd like the Java SE Development Kit to make changes to your device. **Select "Yes."**
- 6. A Java installation wizard will appear on your screen. Select "next," then "next" again.

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					Next >	Cancel



 Voila! You now have successfully installed Java JDK on Windows. The following window will appear, simply **select "close."** You can now proceed to <u>"Installing Smile CDR:</u> <u>Windows"</u>.



Smile CDR

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