Java Platform, Standard Edition JDK Installation Guide





Java Platform, Standard Edition JDK Installation Guide, Release 18

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Preface

Java Platform, Standard Edition Installation Guide describes how to install the Java Development Kit (JDK) on Linux, Microsoft Windows, and macOS computers.

Audience

This document is intended for users who are installing any variant of the Java SE platform.

Documentation Accessibility

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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Documents

See JDK 18 Documentation.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.



Convention	Meaning
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.



Overview of JDK Installation

The type of installation depends on your requirement and the platform that you choose to install.

Installation Requirements and Related Tasks

To develop or run Java applications, download and install JDK.

Version-String Format

To understand the version-string scheme that is used to distinguish various JDK releases, see Version-String Format.

Installation

The JDK can be installed on the following platforms:

- Microsoft Windows
- Linux
- macOS

You can download the JDK from Java SE Development Kit Downloads page.

For supported processors and browsers, see Oracle JDK Certified System Configurations.

The JDK documentation is a separate download. See Java SE Documentation.

Microsoft Windows

Installation of the JDK on Microsoft Windows Platforms: Instructions include steps to install the JDK on 64-bit Microsoft Windows operating systems.

Linux

Installation of the JDK on Linux Platforms: Instructions include installation from Archive files and Red Hat Package Manager (RPM).

macOS

Installation of the JDK on macOS: Instructions include steps to install the JDK on the macOS platform.

Directory Structure

To learn about the files and directories that are created after JDK installation, see Installed Directory Structure of JDK .



Version-String Format

Java SE platform has adopted time-based release model with the JDK being released every six months.

As of JDK 10 and later, the format of the version string, which reflects the Java SE platform's time-based release model, is \$FEATURE.\$INTERIM.\$UPDATE.\$PATCH.

- SFEATURE is the version number that is incremented for every feature release. The feature release contains new features and changes to the existing features as specified by the Java SE platform specification. The version number is incremented every six months. For example, the version number for the March 2018 release is 10, the version number for the September 2018 release is 11, and so on.
- \$INTERIM is the version number that is incremented for every interim release, which contains bug fixes and enhancements. An interim release does not contain incompatible changes, feature removals, nor any changes to the standard APIs. The version number for the interim release is always zero (0) as the six-month release model does not include interim releases. However, this version number is reserved for future interim releases, if any.
- \$UPDATE is the version number that is incremented for an update release, which includes fixes for security issues, regressions, and bugs in new features. The version number is incremented one month after the \$FEATURE release and every three months thereafter. For example, the full version string for the October update release is 18.0.1, the full version string for the January update release is 18.0.2, and so on.
- \$PATCH is the version number that is incremented for an emergency patch release to fix a critical issue.

The version string doesn't have trailing zero elements. For example, if the value of \$FEATURE is 18, the value of \$INTERIM is 0, the value of \$UPDATE is 1, and the value of \$PATCH is 0, then the full version string is 18.0.1.



Installation of the JDK on Linux Platforms

This topic describes the installation procedures of the JDK on the Linux platform, along with the system requirements.

This topic includes the following sections:

- General Notes About Installing the JDK on Linux Platforms
- System Requirements for Installing JDK on Linux Platforms
- JDK Installation Instruction Notation for Linux Platforms
- Installing the JDK on Linux from Archive Files and RPM Packages

General Notes About Installing the JDK on Linux Platforms

This topic describes general information about installing JDK 18 on Linux platforms.

Root Access

Installing the JDK automatically creates a directory called jdk-18.interim.update.patch.



If you install JDK in a specific location such as <code>/usr/jdk</code>, then you must log in with root credentials to gain the necessary permissions. If you do not have the root access, then either install the JDK in your home directory or a subdirectory for which you have the write permissions.

Overwriting Files

If you install the software in a directory that contains a subdirectory named <code>jdk-18.interim.update.patch</code>, then the new software overwrites files of the same name in that directory. Ensure that you rename the old directory if it contains files that you would like to keep.

System Preferences

By default, the installation script configures the system such that the backing store for system preferences is created inside the JDK installation directory as applicable. If the JDK is installed on a network-mounted drive, then the system preferences can be exported for sharing with Java runtime environments on other machines.

System Requirements for Installing JDK on Linux Platforms

See Oracle JDK Certified Systems Configurations for information about supported platforms, operating systems, and browsers.

JDK Installation Instruction Notation for Linux Platforms

Instructions for installing JDK contains a *version* notation that represents the Feature, Interim, and Update version information.

For example, if you are installing JDK 18 Interim 0, Update 0, and Patch 0, then the following string represents the name of the bundle:

Linux x64 systems: jdk-18.interim.update.patch linux-x64 bin.tar.gz

This string becomes:

```
jdk-18 linux-x64 bin.tar.gz
```

Linux aarch64 (64-bit ARM) systems: jdk-18.interim.update.patch_linuxaarch64 bin.tar.gz

This string becomes:

jdk-18 linux-aarch64 bin.tar.gz



If a component has 0 as the suffix, it will be excluded.

Installing the JDK on Linux from Archive Files and RPM Packages

You can install the Java Development Kit (JDK) on a Linux platform from archive files or from Red Hat Package Manager (RPM) packages.

Installation can be performed by using one of the following processes:

- From archive files (.tar.gz): This allows you to install a private version of the JDK for the current user into any location, without affecting other JDK installations. However, it may involve manual steps to get some of the features to work. See the following table for the options available for downloading and installing the JDK from archive files. The bundles are available for Linux x64 and Linux aarch64 (64-bit ARM) systems. Install the required bundle.
- From RPM packages (.rpm): This allows you to perform a systemwide installation of the JDK for all users, and requires root access. See the following table for the options available for downloading and installing the JDK from Linux x64 and Linux aarch64 (64-bit ARM) RPM packages.

Downloading the JDK Installer

Access Java SE Downloads page and click **Accept License Agreement**. Under the **Download** menu, click the **Download** link corresponding your requirement.

The following table lists the options and instructions for downloading and installing the JDK 18 release on a Linux platform:

Download File	Instructions	Architecture (CPU Type)	Who Can Install
For Linux x64 systems: jdk-18.interim.update .patch_linux- x64.tar.gz	Installing the 64-Bit JDK on Linux Platforms	Intel - 64-bit	Anyone
For Linux aarch64 (64-bit ARM) systems: jdk-18.interim.update.patch_linux-aarch64.tar.gz	Installing the 64-Bit JDK on Linux Platforms	ARM - 64-bit	Anyone
For Linux x64 systems: jdk-18.interim.update .patch_linux-x64.rpm	Installing the 64-Bit JDK on RPM-Based Linux Platforms	Intel - 64-bit RPM-based Linux	Root
For Linux aarch64 (64-bit ARM) systems: jdk-18.interim.update.patch_linux-aarch64.rpm	Installing the 64-Bit JDK on RPM-Based Linux Platforms	ARM - 64-bit RPM-based Linux	Root

Installing the 64-Bit JDK on Linux Platforms

You can install the JDK for 64-bit Linux from an archive file (.tar.gz). The .tar.gz archive file (also called a tarball) is a file that can be uncompressed and extracted in a single step.

To install the 64-bit JDK on a Linux platform:

- 1. Download the required file:
 - For Linux x64 systems: jdk-18.interim.update.patch_linux-x64_bin.tar.gz
 - For Linux aarch64 (64-bit ARM) systems: jdk-18.interim.update.patch_linux-aarch64 bin.tar.gz

Before you download a file, you must accept the license agreement. Anyone (not only root users) can install the archive file in any location having write access.

- 2. Change the directory to the location where you want to install the JDK, then move the .tar.gz archive file to the current directory.
- 3. Unpack the tarball and install the downloaded JDK:

```
$ tar zxvf jdk-18.interim.update.patch_linux-x64_bin.tar.gz
```

OR

\$ tar zxvf jdk-18.interim.update.patch linux-aarch64 bin.tar.gz

The Java Development Kit files are installed in a directory called jdk-18.interim.update.patch.

4. Delete the .tar.qz file if you want to save disk space.



Installing the 64-Bit JDK on RPM-Based Linux Platforms

You can install the JDK on 64-bit RPM-based Linux platforms, such as Oracle, Red Hat, and SuSE by using an RPM binary file (.rpm) in the system location.

Ensure that you have the root user access. You can do this by running the command ${\it su}$ and entering the superuser password.

To install the 64-bit JDK on an RPM-based Linux platform:

- 1. Download the required file:
 - For x64 systems: jdk-18.interim.update.patch_linux-x64_bin.rpm
 - For aarch64 (64-bit ARM) systems: jdk-18.interim.update.patch_linuxaarch64 bin.rpm

Before you download a file, you must accept the license agreement.

2. Install the required package using the following command:

```
$ rpm -ivh jdk-18.interim.update.patch_linux-x64_bin.rpm
OR
$ rpm -ivh jdk-18.interim.update.patch linux-aarch64 bin.rpm
```



JDK 18 can coexist with earlier versions of JDK. For each version, a new directory is created, the default directory being /usr/java/jdk-18.interim.update.patch.

Upgrade the required package using the following command:

```
$ rpm -Uvh jdk-18.interim.update.patch_linux-x64_bin.rpm
OR
$ rpm -Uvh jdk-18.interim.update.patch linux-aarch64 bin.rpm
```

- 3. Delete the .rpm file if you want to save disk space.
- 4. Exit the root shell.

It is not required to reboot.

The JDK installation is integrated with the *alternatives* framework. After installation, the *alternatives* framework is updated to reflect the binaries from the recently installed JDK. Java commands such as <code>java</code>, <code>javac</code>, <code>javadoc</code>, and <code>javap</code> can be called from the command line.

Using the java -version command, users can confirm the default (recently installed) JDK version.

In addition, users can check which specific RPM package provides the java files:

```
$ rpm -q --whatprovides java
```



Installation of the JDK on macOS

The JDK supports both Intel-based (x64) and Apple Silicon (AArch64) Mac computers.

This topic includes the following sections:

- System Requirements for Installing the JDK on macOS
- JDK Installation Instruction Notation for macOS
- Determining the Default JDK Version on macOS
- Installing the JDK on macOS
- · Uninstalling the JDK on macOS
- Installation FAQ for macOS

System Requirements for Installing the JDK on macOS

For supported processors and browsers, see Oracle JDK Certified Systems Configurations.

JDK Installation Instruction Notation for macOS

Instructions for installing JDK contains a *version* notation that represents the Feature, Interim, and Update version information.

For example, if you are installing JDK 18 Interim 0, Update 0, and Patch 0, then the following string represents the name of the bundle:

macOS x64 systems:

- jdk-18.interim.update.patch_macos-x64_bin.dmg
 OR
- jdk-18.interim.update.patch macos-x64 bin.tar.gz

This string becomes:

```
jdk-18 macos-x64 bin.dmg
```

OR

```
jdk-18_macos-x64_bin.tar.gz
```

macOS aarch64 (64-bit ARM) systems:

- jdk-18.interim.update.patch_macos-aarch64_bin.dmg
 OR
- jdk-18.interim.update.patch macos-aarch64 bin.tar.gz

This string becomes:

```
jdk-18_macos-aarch64_bin.dmg
```

OR

```
jdk-18_macos-aarch64_bin.tar.gz
```



If a component has 0 as the suffix, it will be excluded.

Determining the Default JDK Version on macOS

When starting a Java application through the command line, the system uses the default JDK.

There can be multiple JDKs installed on the macOS system.

You can determine which version of the JDK is the default by entering <code>java -version</code> in a Terminal window. If the installed version is 18 Interim 0, Update 0, and Patch 0, then you see a string that includes the text 18. For example:

```
$ java -version
java version "18"
Java(TM) SE Runtime Environment (build 18)
Java HotSpot(TM) 64-Bit Server VM (build 23.2-b04, mixed mode)
```

To run a different version of Java, either specify the full path, or use the <code>java_home</code> tool. For example:

```
$ /usr/libexec/java home -v 18 --exec javac -version
```

Installing the JDK on macOS

To install the JDK on macOS:

- Download the required JDK .dmg or file from .tar.gz page:
 - macOS x64 systems: jdk-18.interim.update.patch_macos-x64_bin.dmg OR jdk-18.interim.update.patch macos-x64 bin.tar.gz
 - macOS aarch64 (64-bit ARM) systems:

```
jdk-18.interim.update.patch_macos-aarch64_bin.dmg OR jdk-18.interim.update.patch_macos-aarch64_bin.tar.gz
```

Click Accept License Agreement.

From either the browser **Downloads** window or from the file browser, double-click the .dmg file to start it.

A **Finder** window appears that contains an icon of an open box and the name of the .pkg file.

3. Double-click the JDK 18.pkg icon to start the installation application.

The installation application displays the Introduction window.

4. Click Continue.

The **Installation Type** window appears.

5. Click Install.

A window appears that displays the message: Installer is trying to install new software. Enter your password to allow this.

6. Enter the Administrator user name and password and click **Install Software**.

The software is installed and a confirmation window is displayed.

After the software is installed, you can delete the .dmg or .tar.gz file if you want to save disk space.

Uninstalling the JDK on macOS

To uninstall the JDK on macOS:

You must have Administrator privileges.



Do not attempt to uninstall Java by removing the Java tools from /usr/bin. This directory is part of the system software and any changes will be reset by Apple the next time that you perform an update of the OS.

- 1. Go to /Library/Java/JavaVirtualMachines.
- 2. Remove the directory whose name matches the following format by executing the rm command as a root user or by using the sudo tool:

/Library/Java/JavaVirtualMachines/jdk-18.interim.update.patch.jdk For example, to uninstall 18 Interim 0 Update 0 Patch 0:

```
$ rm -rf jdk-18.jdk
```

Installation FAQ for macOS

This topic provides answers for the following frequently asked questions about installing JDK on macOS computers.

1. How do I find out which version of Java is the system default?

When you run a Java application from the command line, it uses the default JDK. If you do not develop Java applications, then you do not need to worry about this. See Determining the Default JDK Version on macOS.

2. How do I uninstall Java?

See Uninstalling the JDK on macOS.



3. After installing Java for macOS 2012-006, can I continue to use Apple's Java 6 alongside the macOS JDK for Java 18?

If you want to continue to develop with Java 6 using command-line, then you can modify the startup script for your favorite command environment. For bash, use this:

```
$ export JAVA HOME=`/usr/libexec/java home -v 18`
```

Some applications use /usr/bin/java to call Java. After installing Java for macOS 2012-006, /usr/bin/java will find the newest JDK installed, and will use that for all of the Java-related command-line tools in /usr/bin. You may need to modify those applications to find Java 6, or contact the developer for a newer version of the application.

4. What happened to the Java Preferences app in Application Utilities?

The Java Preferences app was part of the Apple Java installation and is not used by Oracle Java. Therefore, macOS releases from Apple that do not include Apple Java will not include Java Preferences.



Installation of the JDK on Microsoft Windows Platforms

This topic includes the following sections:

- System Requirements for Installing the JDK on 64-Bit Windows Platform
- JDK Installation Instruction Notation for Windows
- JDK Installation Instructions for Windows
- · Beginning to Use the JDK
- Uninstalling the JDK on Windows
- System Error During Decompression

System Requirements for Installing the JDK on 64-Bit Windows Platform

For supported processors and browsers, see Oracle JDK Certified Systems Configurations.

JDK Installation Instruction Notation for Windows

For any text in this document that contains the following notation, you must substitute the appropriate update version number:

interim.update.patch

For example, if you are downloading the JDK installer for 64-bit systems for update 18 Interim 0, Update 0, and Patch 0, then the file name jdk-18.interim.update.patch_windows-x64_bin.exe becomes jdk-18_windows-x64_bin.exe.

JDK Installation Instructions for Windows

You run a self-installing executable file to unpack and install the JDK on Windows computers.

Install JDK on Windows computers by performing the actions described in the following topics:

- Downloading the JDK Installer
- Installing the JDK from the JDK .exe Installer
- Installing the JDK from the MSI Enterprise Installer
- Installing the JDK Silently



Downloading the JDK Installer

Access the Java SE Downloads page and click **Accept License Agreement**. Under the **Download** menu, click the **Download** link that corresponds to the .exe for your version of Windows.

Download the file jdk-18. interim. update.patch windows-x64 bin.exe.



Verify the successful completion of file download by comparing the file size on the download page and your local drive. Alternatively, you can ensure that the downloaded file's checksum matches the one provided on the Java SE Downloads page.

Installing the JDK from the JDK .exe Installer

You must have administrator privilege to install the JDK on Microsoft Windows.

To run the JDK installer:

- Start the JDK 18 installer by double-clicking the installer's icon or file name in the download location.
- 2. Follow the instructions provided by the installer.
- 3. After the installation is complete, delete the downloaded file to recover the disk space.

Note:

During installation, the following files are copied to the location mentioned:

```
"C:\Program Files\Common Files\Oracle\Java\javapath\java.exe"
"C:\Program Files\Common Files\Oracle\Java\javapath\javaw.exe"
"C:\Program Files\Common Files\Oracle\Java\javapath\javac.exe"
"C:\Program Files\Common Files\Oracle\Java\javapath\jshell.exe"
```

Alternatively, you can run these executables directly from the JDK's bin directory.

Installing the JDK from the MSI Enterprise Installer

The JDK MSI Enterprise Installer is packaged as a .msi installer and runs with minimal dialogs. It supports silent installation of the JDK and is customizable using command line parameters.

You must have administrative permissions install JDK 18.

- 1. Download jdk-18 windows-x64 bin.msi.
- 2. Double click the .msi file to run the installer.

Installing the JDK from the Command Line

You can install the JDK by downloading the appropriate Oracle JDK MSI Enterprise Installer for your system and running it from the command line.

- 1. Download jdk-18 windows-x64 bin.msi.
- 2. Open an MS-DOS prompt with Administrative permissions.
- 3. Run one of the following commands depending on the type of installation that you want to perform:
 - Basic UI mode:

```
msiexec.exe /i installer.msi
```

Silent mode:

msiexec.exe installer.msi /qn



installer.msi is the name of the MSI Enterprise JDK Installer that you obtained in the previous step.

Creating a Log File

You can use a log file to verify that an installation succeeded.

To create a log file describing the installation, append $/L \ C:\path \ log to the install command and scroll to the end of the log file to verify.$

The following is an example of creating a log file:

```
msiexec.exe /i installer.msi /L C:\path\setup.log
```

In this example, the log is written to the $C: path \cdot$

Installing the JDK Silently

Instead of double-clicking or opening the JDK installer, you can perform a silent, non interactive, JDK installation by using command-line arguments.

Install JDK in silent mode using the command:

jdk.exe /s



Note:

- The notation *jdk* stands for the downloaded installer file base name, such as jdk-18_windows-x64_bin.exe.
- You don't need to run the ADDLOCAL command anymore as everything gets installed by default.

Beginning to Use the JDK

Use the **Java Development Kit** in the Windows **Start** menu to access information related to Reference Documentation.

During JDK installation, Java menu items are added to the Windows **Start** menu to provide easy access to Reference Documentation, which is online documentation web page.

During JDK installation and uninstallation processes, the appropriate start menu items are updated so that they are associated with the latest JDK version on the system



Windows 10 has a **Start** menu; however, the menu is not available in Windows 8 and Windows 8.1. The JDK and Java information in Windows 8 and Windows 8.1 is available in the following Start directory:

ALLUSERSPROFILE Microsoft Mindows Start Menu Programs.

Uninstalling the JDK on Windows

To uninstall JDK 18, use the **Add/Remove Programs** utility in the Microsoft Windows Control Panel.

Uninstalling the JDK in Silent Mode

You can use the command line for uninstalling the JDK.

Use the following command to uninstall the JDK in silent mode:

MsiExec.exe/X{<UninstallString>}

For example, to uninstall JDK 18, run the command:

MsiExec.exe /X{B1405ADC-C0CA-5E63-B1E0-51F5A9A2627C}

To find the UninstallString, see Finding the JDK Registry Key and UninstallString Value .



Note:

- This command can be run from anywhere.
- The msiexec.exe executable is located in the windows system directory.
- A reboot is required only if some files are in use during uninstallation; it is not necessary everytime. However, to manually suppress reboot while uninstalling, append REBOOT=R option to the command.
- Append /1 "C:\<path>setup.log" option to the command if you want to create a log file describing the uninstallation status.

Windows Installer dialog appears prompting you for confirmation. Click Yes to uninstall JDK.

Finding the JDK Registry Key and UninstallString Value

- 1. Go to Start and type regedit.
- 2. In the Registry Editor, go to HKEY_LOCAL_MACHINE/Software/Microsoft/Windows/CurrentVersion/Uninstall.

Under the Uninstall folder, you will find many registry entries within curly brackets.

3. Click **Edit** and then **Find**.



Highlight the Uninstall folder before performing search for a particular registry.

 Enter version string as value to find corresponding registry key. For example, enter idk-18.

The registry key is highlighted on the right-hand side of the pane and values of various uninstall strings are displayed on the left-hand pane.

5. Note the value of the UninstallString.

JDK Installation Troubleshooting

The topic provide tips for resolving issues while installing JDK.

- System Error During Decompression
- Program Cannot Be Run in DOS Mode
- Characters That Are Not Part of the System Code Page
- Cleanup the Registry After a Failed JDK Uninstall
- Fixing Shim Situation when JDK 18 and JRE 8 is Installed

System Error During Decompression

If you see the error message: system error during decompression, then there might not be enough space on the disk that contains the TEMP directory.

Program Cannot Be Run in DOS Mode

If you see the error message: This program cannot be run in DOS mode, then do the following:

- Open the MS-DOS shell or command prompt window.
- 2. Right-click the title bar.
- Select Properties.
- Select the Program tab.
- Click Advanced.
- Ensure that the item Prevent MS-DOS-based programs from detecting Windows is not selected.
- 7. Select OK.
- Select OK again.
- 9. Exit the MS-DOS shell.
- 10. Restart your computer.

Characters That Are Not Part of the System Code Page

A 1722 error may occur if the installation directory is not part of the system locale's code page. To prevent this, ensure that the user and system locales are identical, and that the installation path contains only characters that are part of the system locale's code page. User and system locales can be set in the **Regional Options** or **Regional Settings** control panel.

The associated bug number is 4895647.

Cleanup the Registry After a Failed JDK Uninstall

Sometimes, attempts to uninstall JDK through the Windows **Add/Remove** program leave behind some Java entries in the registry that are not fully removed. These left behind registry entries can cause problems in installing a new version of Java. The following are the methods to cleanup registry entries:

- Program Install and Uninstall troubleshooter (Recommended Method)
- Manual Registry Edit

Program Install and Uninstall troubleshooter (Recommended Method)

Run the Program Install and Uninstall troubleshooter to repair the corrupted registry keys that prevent programs from being completely uninstalled, or blocks new installations and updates.

Manually edit the registry (Use this only if the Fix It utility does not work)

Incorrectly editing your registry may severely damage your system. You should back up any valued data from your computer before making changes to the registry.

To save the registry key before deleting, in the menu bar, select **File** and then **Export**. In case you deleted the wrong registry key, you can restore the registry from your saved backup file by selecting from the menu bar **File** and then **Import**.



To delete the registry key:

- 1. Determine the correct Registry Key. See Finding the JDK Registry Key and UninstallString Value.
- 2. Highlight the key, Right click and select Delete.
- 3. Click Yes when prompted.

The JDK gets uninstalled.

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When you install JDK 18 and then install JRE 8, and then run the <code>java -version</code> command, 1.8.0 is displayed in the output instead of 18. This is because the <code>javapath</code> is placed before JDK 18 location in the user environment path.

This is a bug with the JRE 8 installer. To fix this shim situation, uninstall and reinstall JDK 18.



Installed Directory Structure of JDK

The modular runtime image of JDK 18 contains the following folders:



In macOS, the JDK installation path is/Library/Java/JavaVirtualMachines/jdk-interim.update.patch.jdk/Contents/Home.

/jdk-interim.update.patch.jdk

The root directory of the JDK software installation. This directory also contains Copyright, README, and Release files.

/jdk-interim.update.patch.jdk/Contents/Home/

The root directory of the JDK software installation on macOS.

/jdk-interim.update.patch.jdk/bin

The executable and command-line launchers that are defined by the modules linked to the image.

/jdk-interim.update.patch.jdk/conf

The .properties, .policy, and other configuration files intended to be edited by developers, deployers, and end users.

/jdk-interim.update.patch.jdk/lib

The private implementation details of the runtime system. These files are not intended for external use and must not be modified.

The lib directory on macOS or the lib/\$ARCH directory on Linux contains the runtime system's dynamically linked native libraries.

/jdk-interim.update.patch.jdk/jmods

The compiled module definitions.

/jdk-interim.update.patch.jdk/legal

The copyright and license files for each module.

/jdk-interim.update.patch.jdk/lib/src.zip

The archive that contains the source code for the Java platform.

/jdk-interim.update.patch.jdk/include

The C-language header files that support native-code programming with the Java Native Interface and the Java Virtual Machine (JVM) Debugger Interface.

Note:

You can install two versions of JDK simultaneously. When you install another version, it doesn't replace the previous version; however a new directory is created. For example, you can install JDK 18 and JDK 11 simultaneously. In the JDK installation location, jdk-18 and jdk-11 directories get created.

