



## Red Hat build of OpenJDK 11

# Installing and using Red Hat build of OpenJDK 11 for Windows



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## Abstract

Red Hat build of OpenJDK is a Red Hat offering on the Microsoft Windows platform. The Installing and using Red Hat build of OpenJDK 11 for Windows guide provides an overview of this product and explains how to install the software and start using it.

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# PROVIDING FEEDBACK ON RED HAT BUILD OF OPENJDK DOCUMENTATION

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## MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see [our CTO Chris Wright's message](#).



# CHAPTER 1. RED HAT BUILD OF OPENJDK 11 FOR MICROSOFT WINDOWS INSTALLATION OPTIONS

Red Hat build of OpenJDK 11 for Microsoft Windows can be installed using an archive or through a graphical user interface using an MSI-based installer.

Depending on your circumstance, use one of the following installation methods:

- [Installing Red Hat build of OpenJDK with the archive](#)
- [Installing Red Hat build of OpenJDK with the MSI installer](#)

## CHAPTER 2. INSTALLING RED HAT BUILD OF OPENJDK 11 FOR MICROSOFT WINDOWS WITH THE ARCHIVE

This procedure describes how to manually install Red Hat build of OpenJDK 11 for Microsoft Windows using the archive.

### Procedure

1. [Download the archive](#) of Red Hat build of OpenJDK 11 for Microsoft Windows.
2. Extract the contents of an archive to a directory of your choice.



### NOTE

Extracting the contents of an archive to a directory path that *does not* contain spaces is recommended.

3. Update the **PATH** as below:
  - a. Add the **bin** directory contained in your Red Hat build of OpenJDK 11 for Microsoft Windows installation path to the **%PATH%** environment variable:

```
C:\> setx /m PATH "%PATH%;C:\Progra~1\RedHat\java-11-openjdk-11.0.1.13-1\bin"
```

If the path contains spaces, use the shortened path name.

- b. Restart Command Prompt to reload the environment variables.
4. Verify the Red Hat build of OpenJDK 11 for Microsoft Windows is successfully installed, run **java -version** command in a command prompt and you must get the following output:

```
openjdk version "11.0.3-redhat" 2019-04-16 LTS
OpenJDK Runtime Environment 18.9 (build 11.0.3-redhat+7-LTS)
OpenJDK 64-Bit Server VM 18.9 (build 11.0.3-redhat+7-LTS, mixed mode)
```

5. The **%JAVA\_HOME%** environment variable must also be set to use some developer tools. Set the **%JAVA\_HOME%** environment variable as follows:
  - a. Open Command Prompt as an administrator.
  - b. Set the value of the environment variable to your Red Hat build of OpenJDK 11 for Microsoft Windows installation path:

```
C:\> setx /m JAVA_HOME "C:\Progra~1\RedHat\java-11-openjdk-11.0.1.13-1"
```

If the path contains spaces, use the shortened path name.

- c. Restart Command Prompt to reload the environment variables.

## CHAPTER 3. UPDATING RED HAT BUILD OF OPENJDK 11 FOR MICROSOFT WINDOWS USING THE ARCHIVE

Red Hat build of OpenJDK 11 for Microsoft Windows can be manually update using the archive.

### Procedure

1. [Download the archive](#) of Red Hat build of OpenJDK 11.
2. Extract the contents of an archive to a directory of your choice.



#### NOTE

Extracting the contents of an archive to a directory path that does not contain spaces is recommended.

3. On Command Prompt, update **JAVA\_HOME** environment variable as follows:
  - a. Open Command Prompt as an administrator.
  - b. Set the value of the environment variable to your Red Hat build of OpenJDK 11 for Microsoft Windows installation path:

```
C:\> setx /m JAVA_HOME "C:\Progra~1\RedHat\java-11-openjdk-11.0.1.13-1"
```

If the path contains spaces, use the shortened path name.

- c. Restart Command Prompt to reload the environment variables.
4. Set the value of **PATH** variable if it is not set already:

```
C:\> setx -m PATH "%PATH%;%JAVA_HOME%\bin";
```

5. Restart Command Prompt to reload the environment variables.
6. Verify that **java -version** works without supplying the full path.

```
C:\> java -version
openjdk version "11.0.3" 2019-04-16 LTS
OpenJDK Runtime Environment (build 11.0.3+7-LTS)
OpenJDK 64-bit Server VM (build 11.0.3+7-LTS, mixed mode)
```

## CHAPTER 4. INSTALLING RED HAT BUILD OF OPENJDK WITH THE MSI INSTALLER

This procedure describes how to install Red Hat build of OpenJDK 11 for Microsoft Windows using the MSI-based installer.

### Procedure

1. [Download the MSI-based installer](#) of Red Hat build of OpenJDK 11 for Microsoft Windows.
2. Run the installer for Red Hat build of OpenJDK 11 for Microsoft Windows.
3. Click **Next** on the welcome screen.
4. Check **I accept the terms in license agreement**, then click **Next**.
5. Click **Next**.
6. Accept the defaults or review the [optional properties](#).
7. Click **Install**.
8. Click **Yes** on the **Do you want to allow this app to make changes on your device?**
9. Verify the Red Hat build of OpenJDK 11 for Microsoft Windows is successfully installed, run **java -version** command in the command prompt and you must get the following output:

```
openjdk version "11.0.3-redhat" 2019-04-16 LTS
OpenJDK Runtime Environment 18.9 (build 11.0.3-redhat+7-LTS)
OpenJDK 64-Bit Server VM 18.9 (build 11.0.3-redhat+7-LTS, mixed mode)
```

## CHAPTER 5. RED HAT BUILD OF OPENJDK MSI INSTALLER COMPONENTS

(Optional) Set the following Red Hat build of OpenJDK 11 for Microsoft Windows MSI-based installer components:

### **jdk**

Java Development Kit (JDK) files.

### **jdk-registry-standard**

Registry keys:

```
HKLM\Software\JavaSoft\JDK\<version>, entries:  
  JavaHome: <INSTALLDIR>  
  RuntimeLib: <INSTALLDIR>\bin\server\jvm.dll
```

```
HKLM\Software\JavaSoft\JDK, entries:  
  CurrentVersion: <version>
```

### **jdk\_env\_path**

Appends **<INSTALLDIR>\bin** to the system **%PATH%** environment variable.

### **jdk\_env\_java\_home**

Sets **<INSTALLDIR>** to the system **%JAVA\_HOME%** environment variable.

### **jdk\_env\_vendor\_java\_home**

Sets **<INSTALLDIR>** to the system **%REDHAT\_JAVA\_HOME%** environment variable.

### **jdk\_registry\_jar**

Association for JAR files. Launch JAR files with the Red Hat build of OpenJDK context menu.

### **jmc**

JDK Mission Control files, installed into **<INSTALLDIR>\missioncontrol**.

### **jmc\_env**

Appends **<INSTALLDIR>\missioncontrol** to the system **%PATH%** environment variable.

## APPENDIX A. MSI-BASED INSTALLER PROPERTIES

The Red Hat build of OpenJDK for Windows MSI-based installer includes the *JDK Files* component and the following optional properties:

**Table A.1. Red Hat build of OpenJDK for Windows MSI-based installer properties**

Property	Description	Default value
OpenJDK Runtime - Windows Registry	The following registry keys are set HKLM\Software\JavaSoft\JDK\ <version>, entries: JavaHome: <INSTALLDIR> RuntimeLib: <INSTALLDIR>\bin\server\jvm.dll HKLM\Software\JavaSoft\JDK, entries: CurrentVersion: <version>	Yes
OpenJDK Runtime - Path Variable	Adds the Runtime to the Path variable so it is available from the command line.	Yes
OpenJDK Runtime - JAVA_HOME System Variable	JAVA_HOME is used by some programs to find the Java runtime.	No
OpenJDK Runtime - REDHAT_JAVA_HOME System Variable	REDHAT_JAVA_HOME can be used by some programs to find the Red Hat build of OpenJDK runtime.	No
OpenJDK Runtime - Jar Files Association	This enables Jar files to be run from within Windows Explorer.	No
Mission Control - Files	Contains files that are installed in the <install_dir>\missioncontrol directory.	No
Mission Control - Path Variable	Appends <install_dir>\missioncontrol to the system PATH environment variable.	No

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