

DevOps Introduction: Working with CI CD and Continuous monitoring Tools

Installation Guide for Jenkins



Jenkins

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Installation steps for Jenkins

1. First we need to download and install the **Java JDK**.

Download from the following link and install the **JDK**.

<https://www.oracle.com/java/technologies/downloads/#jdk21-windows>

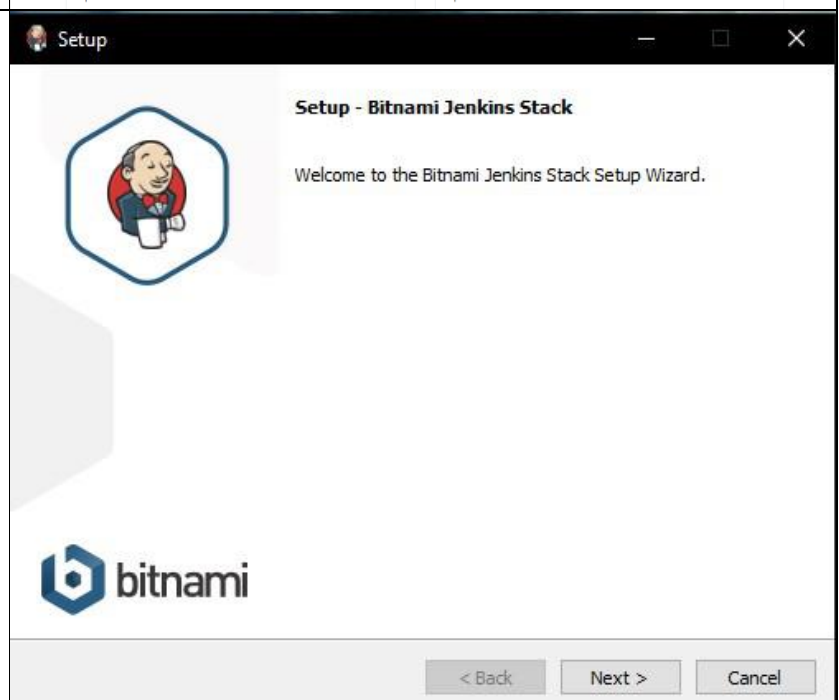
JDK Development Kit 21.0.1 downloads		
JDK 21 binaries are free to use in production and free to redistribute, at no cost, under the Oracle No-Fee Terms and Conditions (NFTC). JDK 21 will receive updates under the NFTC, until September 2026, a year after the release of the next LTS. Subsequent JDK 21 updates will be licensed under the Java SE OTN License (OTN) and production use beyond the limited free grants of the OTN license will require a fee.		
Linux	macOS	Windows
Product/file description	File size	Download
x64 Compressed Archive	185.39 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.zip (sha256)
x64 Installer	165.82 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.exe (sha256)
x64 MSI Installer	162.60 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.msi (sha256)

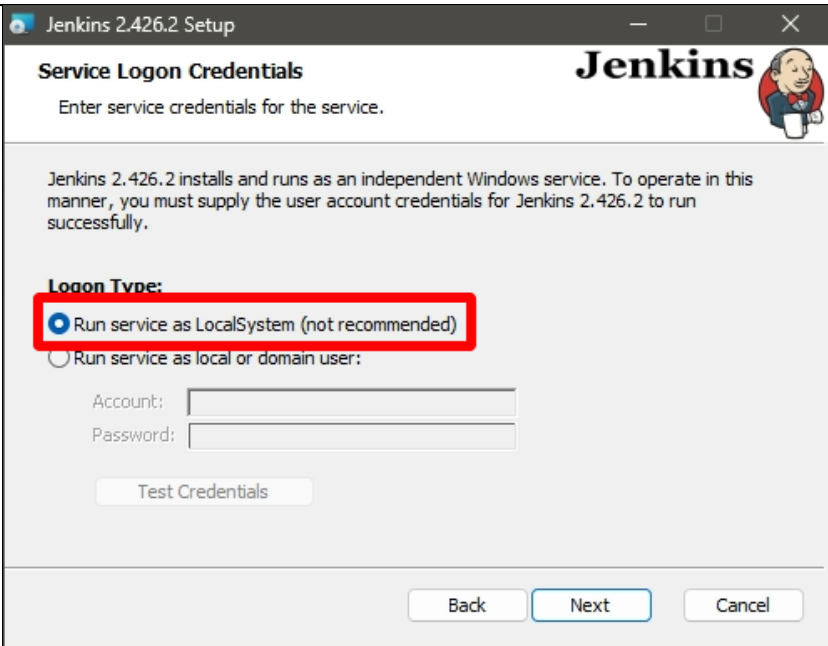
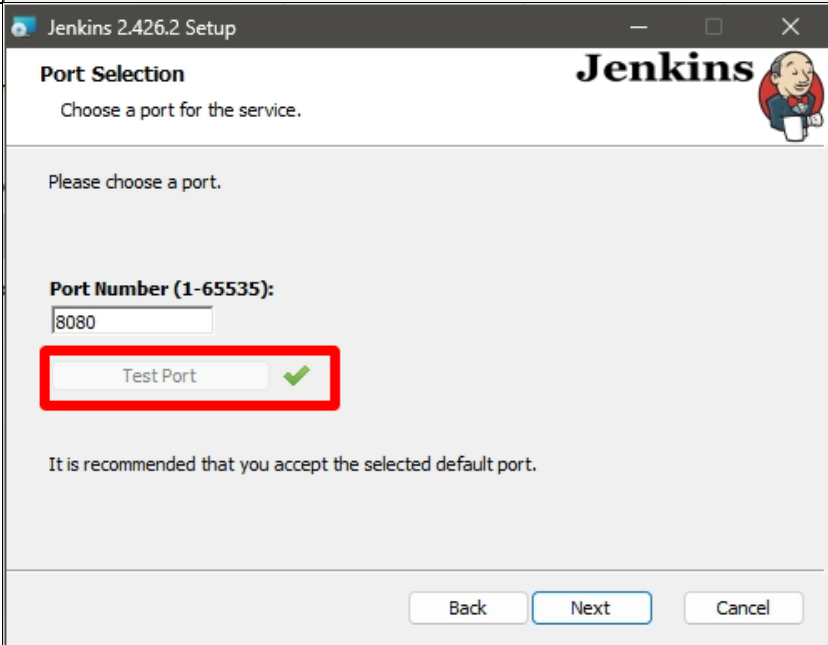
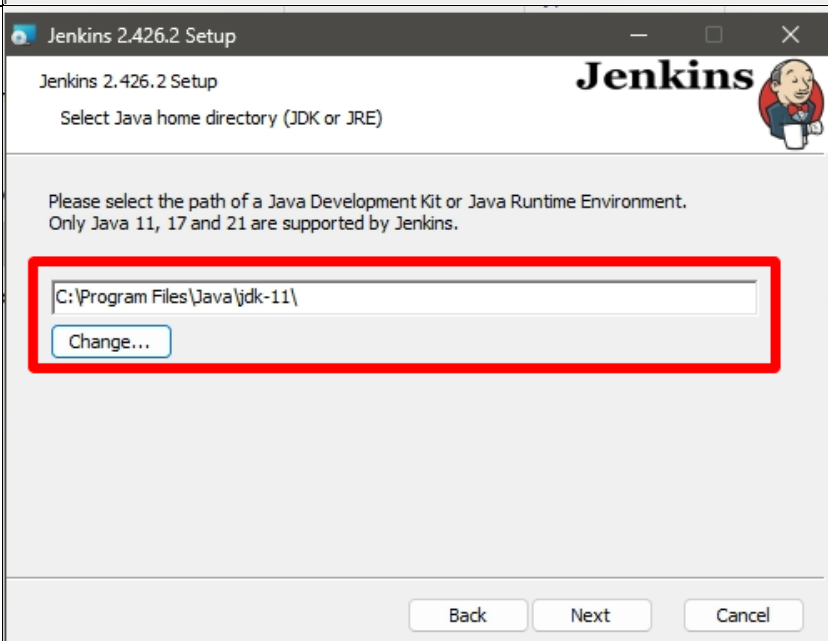
2. Now go to **Jenkins** official website to download the **Jenkins**.

<https://www.jenkins.io/download/>

Jenkins	
<p>3. Once a Jenkins package has been downloaded, proceed to the Installing Jenkins section of the User Handbook.</p> <p>4. You may also want to verify the package you downloaded. Learn more about verifying Jenkins downloads.</p>	
<p>Download Jenkins 2.426.2 LTS for:</p> <p>Generic Java package (.war)</p> <p>Docker</p> <p>Kubernetes</p> <p>Ubuntu/Debian</p> <p>Red Hat/Fedora/Alma/Rocky/CentOS</p> <p>Windows</p> <p>openSUSE</p> <p>FreeBSD</p> <p>Gentoo</p> <p>macOS</p> <p>OpenBSD</p>	<p>Download Jenkins 2.438 for:</p> <p>Generic Java package (.war)</p> <p>Docker</p> <p>Ubuntu/Debian</p> <p>Red Hat/Fedora/Alma/Rocky/CentOS</p> <p>Windows</p> <p>openSUSE</p> <p>Arch Linux</p> <p>FreeBSD</p> <p>Gentoo</p> <p>macOS</p> <p>OpenBSD</p>

3. Launch the setup and follow the wizard.



<p>4. Now select the first option in Service Logon Credentials</p>	 <p>The screenshot shows the 'Service Logon Credentials' window in the Jenkins 2.426.2 Setup. It instructs the user to enter service credentials. Under 'Logon Type:', the option 'Run service as LocalSystem (not recommended)' is selected and highlighted with a red box. Below it are fields for 'Account:' and 'Password:', and a 'Test Credentials' button. At the bottom are 'Back', 'Next', and 'Cancel' buttons.</p>
<p>5. Now to check the Port Number click on Test Port button</p>	 <p>The screenshot shows the 'Port Selection' window in the Jenkins 2.426.2 Setup. It asks the user to choose a port. The 'Port Number (1-65535):' field contains '8080'. Below it, the 'Test Port' button is highlighted with a red box and a green checkmark, indicating the port is available. At the bottom are 'Back', 'Next', and 'Cancel' buttons.</p>
<p>6. Now select the path of the Java JDK folder.</p>	 <p>The screenshot shows the 'Select Java home directory (JDK or JRE)' window in the Jenkins 2.426.2 Setup. It instructs the user to select the path of a Java Development Kit or Java Runtime Environment. The text box contains the path 'C:\Program Files\Java\jdk-11\'. Below the text box, the 'Change...' button is highlighted with a red box. At the bottom are 'Back', 'Next', and 'Cancel' buttons.</p>

- Now open a browser and type the following url.

Localhost:8080

Now go to the given path on the browser as per the system installation **Jenkins** folder and copy and paste the password to unlock **Jenkins**.

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

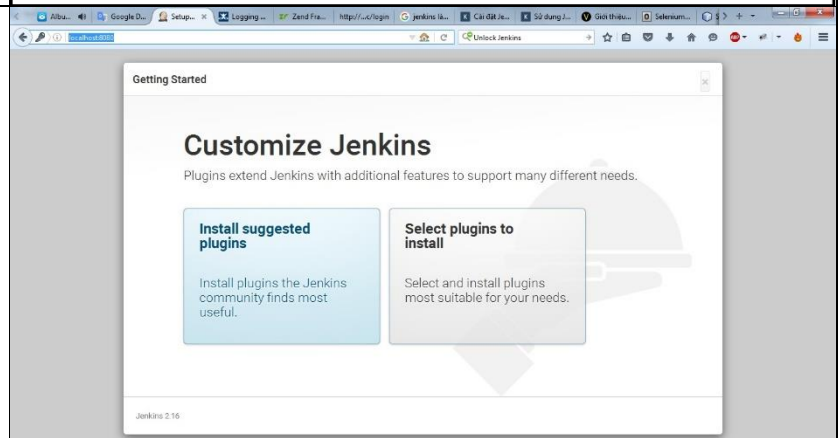
`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

Continue

- Then click on **Install Suggested Plugins**.



- Installation Completed.

