


[Jenkins](#)

- 
[What is CDF? Jenkins X Tekton Spinnaker](#)
- [Blog](#)
- [Documentation](#)
[User Guide](#) - [Installing Jenkins](#) - [Jenkins Pipeline](#) - [Managing Jenkins](#) - [Securing Jenkins](#) - [System Administration](#) - [Terms and Definitions](#) [Solution Pages Tutorials](#) - [Guided Tour](#) - [More Tutorials](#) [Developer Guide](#) [Contributor Guide](#)
- [Plugins](#)
- [Community](#)
[Overview](#) [Chat](#) [Meet](#) [Events](#) [Forum](#) [Issue Tracker](#) [Mailing Lists](#) [Roadmap](#) [Account Management](#) [Special Interest Groups](#) - [Advocacy and Outreach](#) - [Chinese Localization](#) - [Cloud Native](#) - [Documentation](#) - [Google Summer of Code](#) - [Hardware and EDA](#) - [Pipeline Authoring](#) - [Platform](#) - [User Experience](#)
- [Subprojects](#)
[Overview](#) [Evergreen](#) [Google Summer of Code in Jenkins Infrastructure](#) [CI/CD and Jenkins Area Meetups](#) [Jenkins Configuration as Code](#) [Jenkins Operator](#) [Jenkins Remoting](#) [Document Jenkins on Kubernetes](#)
- [About](#)
[Roadmap](#) [Security](#) [Press](#) [Awards](#) [Conduct](#) [Artwork](#)
- [English](#)
[中文](#) [Chinese](#)
-
- [Download](#)

[> User Documentation Home](#)**User Handbook**

- [User Handbook overview](#)
- [Installing Jenkins](#)
 - [Docker](#)
 - [Kubernetes](#)
 - [Linux](#)
 - [macOS](#)
 - [WAR files](#)
 - [Windows](#)
 - [Other Systems](#)
 - [Offline Installations](#)
 - [Initial Settings](#)
- [Using Jenkins](#)
- [Pipeline](#)
- [Blue Ocean](#)
- [Managing Jenkins](#)
- [Securing Jenkins](#)
- [System Administration](#)
- [Scaling Jenkins](#)
- [Appendix](#)
- [Glossary](#)

Tutorials

- [Guided Tour](#)
- [Jenkins Pipeline](#)
- [Using Build Tools](#)

Resources

- [Pipeline Syntax reference](#)
- [Pipeline Steps reference](#)
- [LTS Upgrade guides](#)

[⇐ WAR files](#)[↑ Installing Jenkins](#)[Index](#)[Other Systems ⇒](#)

Windows

Table of Contents

- [Prerequisites](#)
- [Installation steps using Windows MSI installer](#)
- [Post-installation setup wizard](#)
 - [Unlocking Jenkins](#)
 - [Customizing Jenkins with plugins](#)
 - [Creating the first administrator user](#)
- [Troubleshooting Windows installation](#)
 - [Invalid service logon credentials](#)

The simplest way to install Jenkins on Windows is to use the Jenkins Windows installer. That program will install Jenkins as a service using a 64 bit JVM chosen by the user. Keep in mind that to run Jenkins as a service, the account that runs Jenkins must have permission to login as a service.

Prerequisites

Minimum hardware requirements:

- 256 MB of RAM
- 1 GB of drive space (although 10 GB is a recommended minimum if running Jenkins as a Docker container)

Recommended hardware configuration for a small team:

- 4 GB+ of RAM
- 50 GB+ of drive space

Comprehensive hardware recommendations:

- Hardware: see the [Hardware Recommendations](#) page

Software requirements:

- Java: see the [Java Requirements](#) page
- Web browser: see the [Web Browser Compatibility](#) page
- For Windows operating system: [Windows Support Policy](#)

Installation steps using Windows MSI installer

How to install Jenkins on Windows



Refer to the Windows section of the [Downloading Jenkins](#) page to download either an LTS release or a weekly release of the Windows installer. After the download completes, open the Windows installer and follow the steps below to install Jenkins.

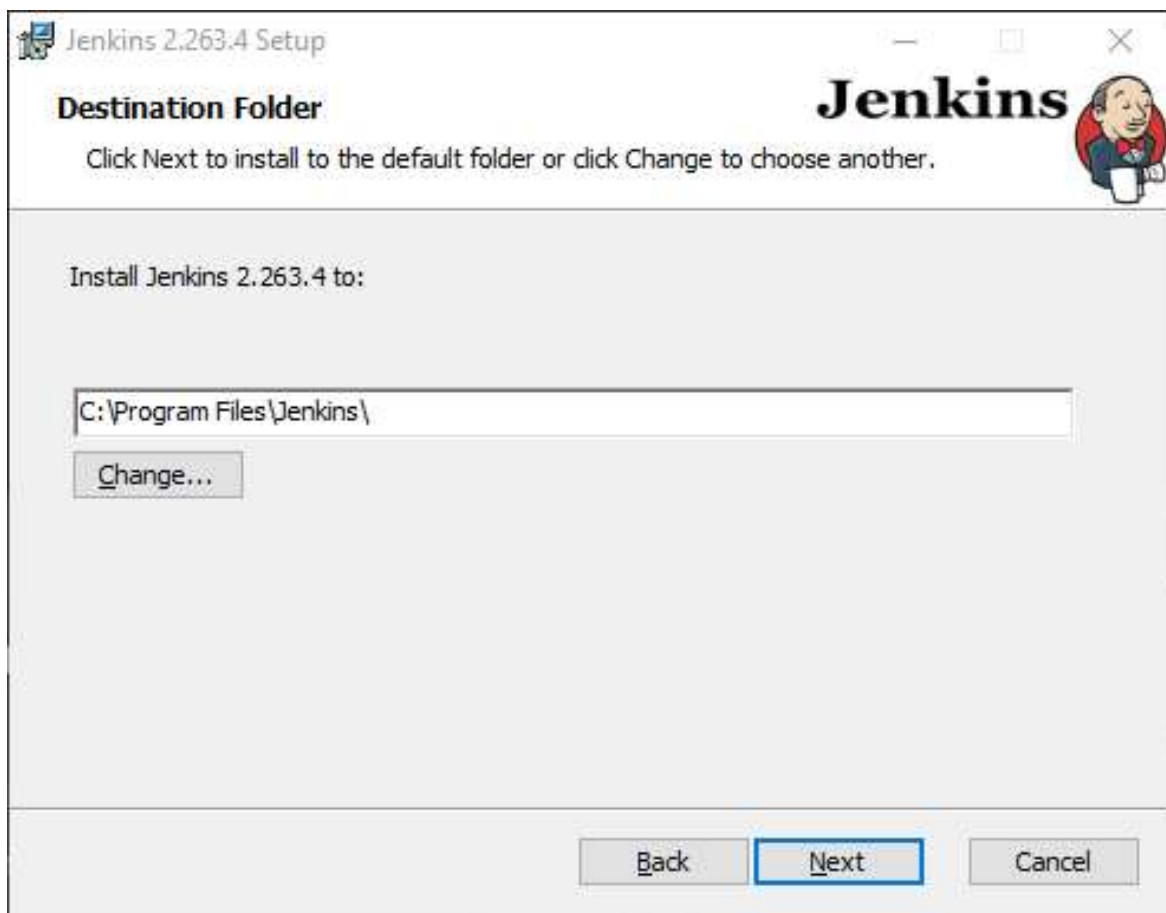
Step 1: Setup wizard

On opening the Windows Installer, an **Installation Setup Wizard** appears. Click **Next** on the Setup Wizard to start your installation.



Step 2: Select destination folder

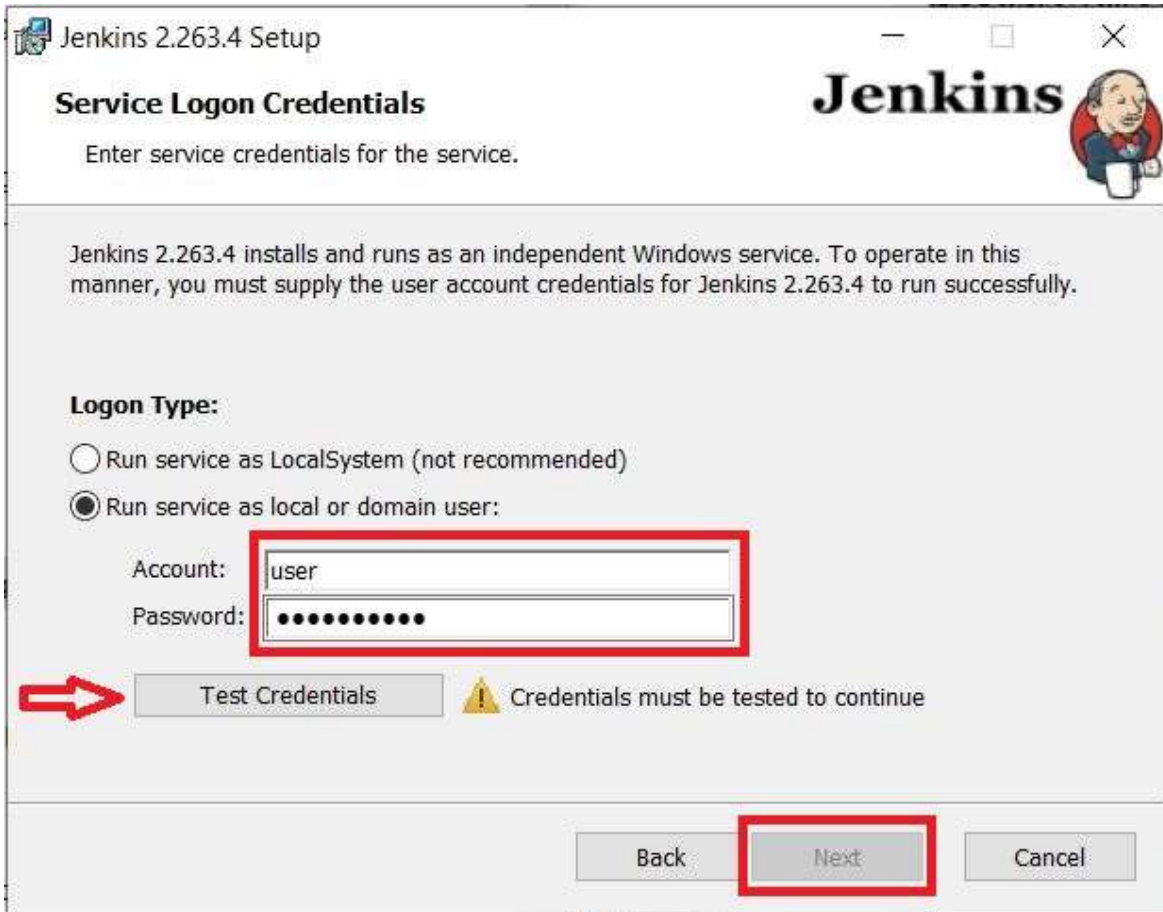
Select the destination folder to store your Jenkins Installation and click **Next** to continue.



Step 3: Service logon credentials

When Installing Jenkins, it is recommended to install and run Jenkins as an independent windows service using a **local or domain user** as it is much safer than running Jenkins using **LocalSystem(Windows equivalent of root)** which will grant Jenkins full access to your machine and services.

To run Jenkins service using a **local or domain user**, specify the domain user name and password with which you want to run Jenkins, click on **Test Credentials** to test your domain credentials and click on **Next**.



The image shows the 'Jenkins 2.263.4 Setup' window with the 'Service Logon Credentials' tab selected. The window title bar includes the Jenkins logo and the text 'Jenkins 2.263.4 Setup'. Below the title bar, the text 'Service Logon Credentials' is displayed, followed by the instruction 'Enter service credentials for the service.' The main content area contains a message: 'Jenkins 2.263.4 installs and runs as an independent Windows service. To operate in this manner, you must supply the user account credentials for Jenkins 2.263.4 to run successfully.' Below this, the 'Logon Type:' section has two radio buttons: 'Run service as LocalSystem (not recommended)' and 'Run service as local or domain user:'. The second option is selected. Below the radio buttons, there are two text input fields: 'Account:' with the value 'user' and 'Password:' with masked characters. A red rectangle highlights both input fields. Below the input fields, there is a 'Test Credentials' button with a red arrow pointing to it, and a warning icon with the text 'Credentials must be tested to continue'. At the bottom of the window, there are three buttons: 'Back', 'Next', and 'Cancel'. The 'Next' button is highlighted with a red rectangle.

If you get **Invalid Logon** Error pop-up while trying to test your credentials, follow the steps explained [here](#) to resolve it.

Step 4: Port selection

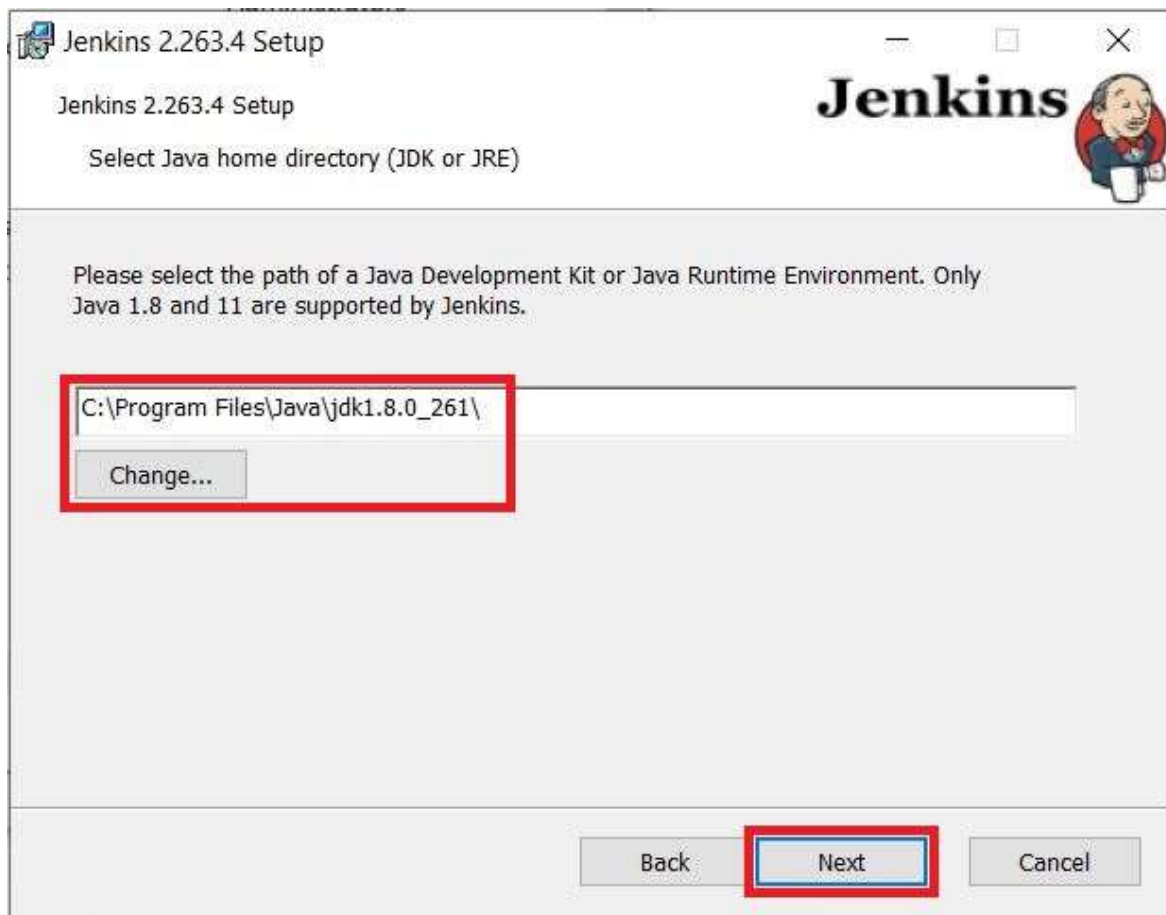
Specify the port on which Jenkins will be running, **Test Port** button to validate whether the specified port is free on your machine or not. Consequently, if the port is free, it will show a green tick mark as shown below, then click on **Next**.



Step 5: Select Java home directory

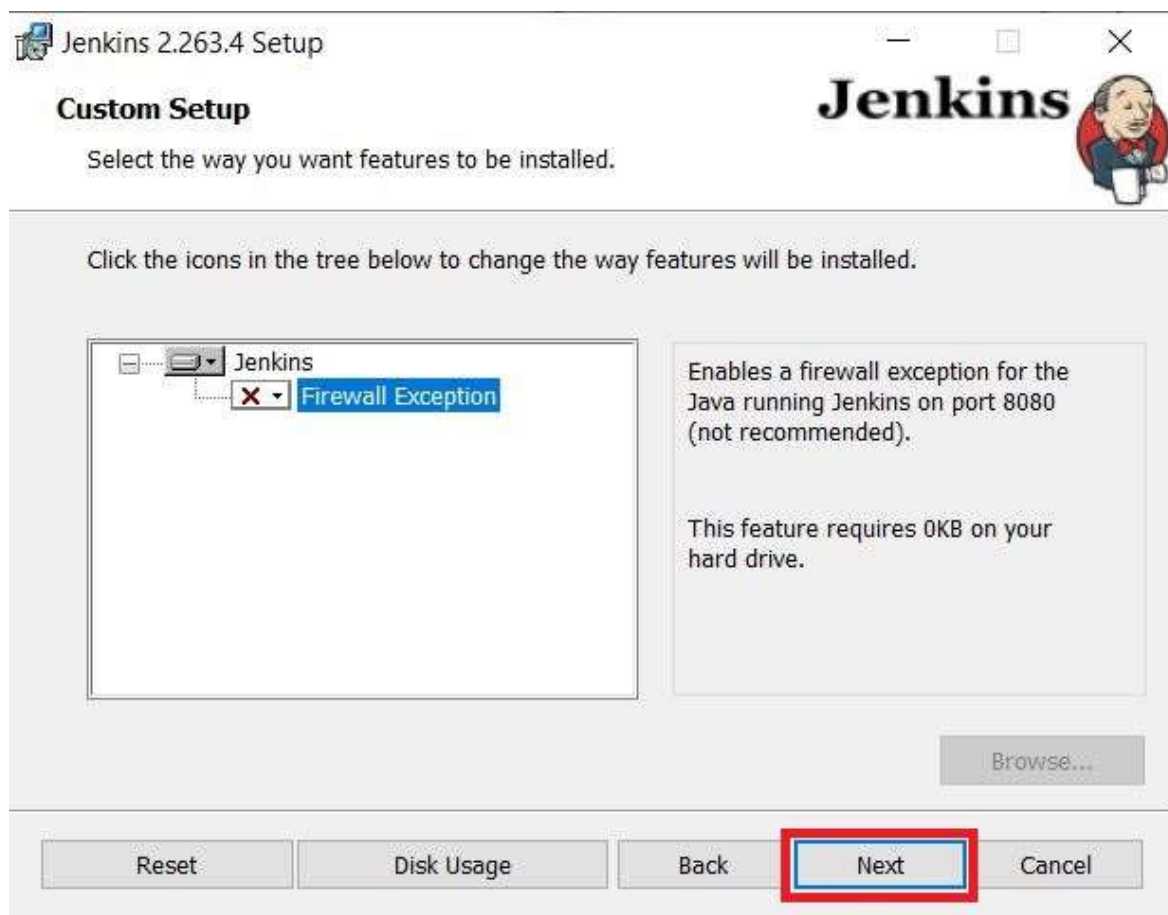
The installation process checks for Java on your machine and prefills the dialog with the Java home directory. If the needed Java version is not installed on your machine, you will be prompted to install it.

Once your Java home directory has been selected, click on **Next** to continue.



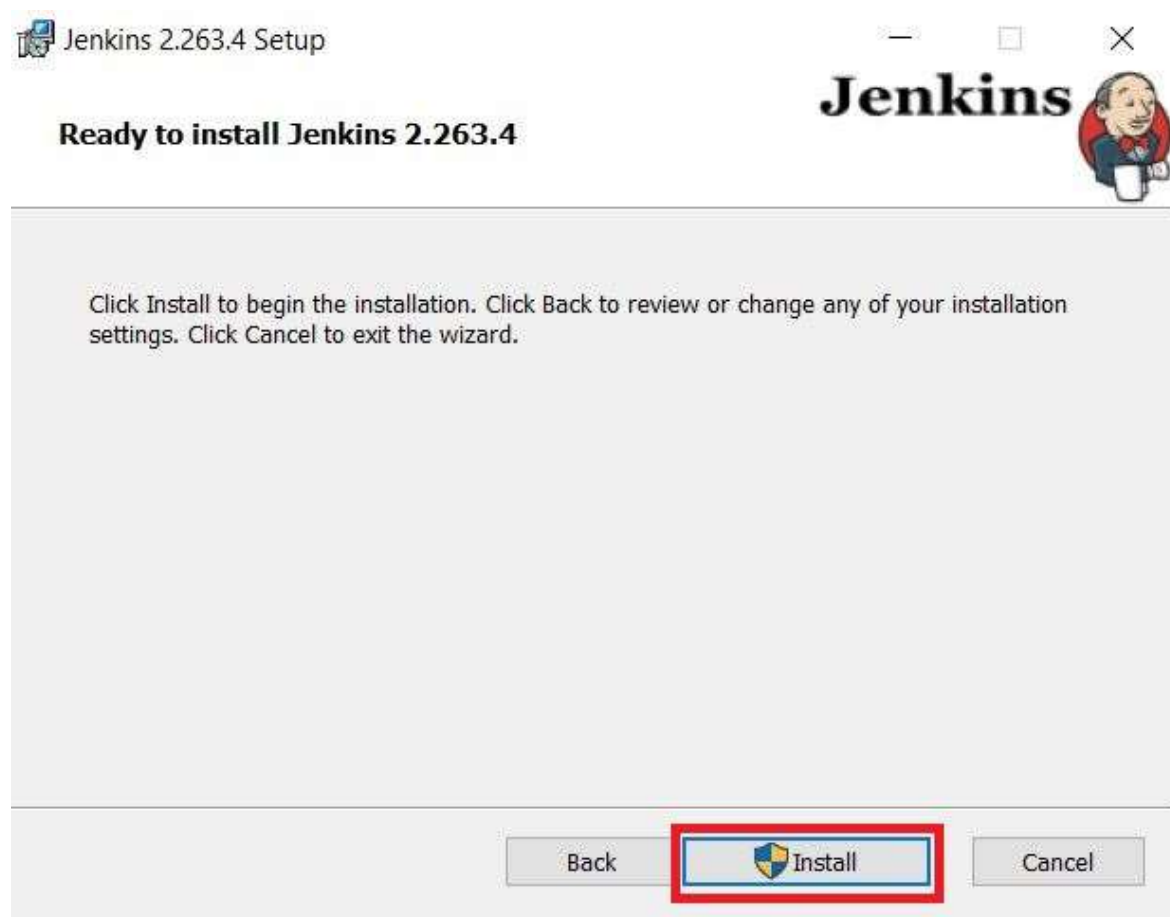
Step 6: Custom setup

Select other services that need to be installed with Jenkins and click on **Next**.



Step 7: Install Jenkins

Click on the **Install** button to start the installation of Jenkins.



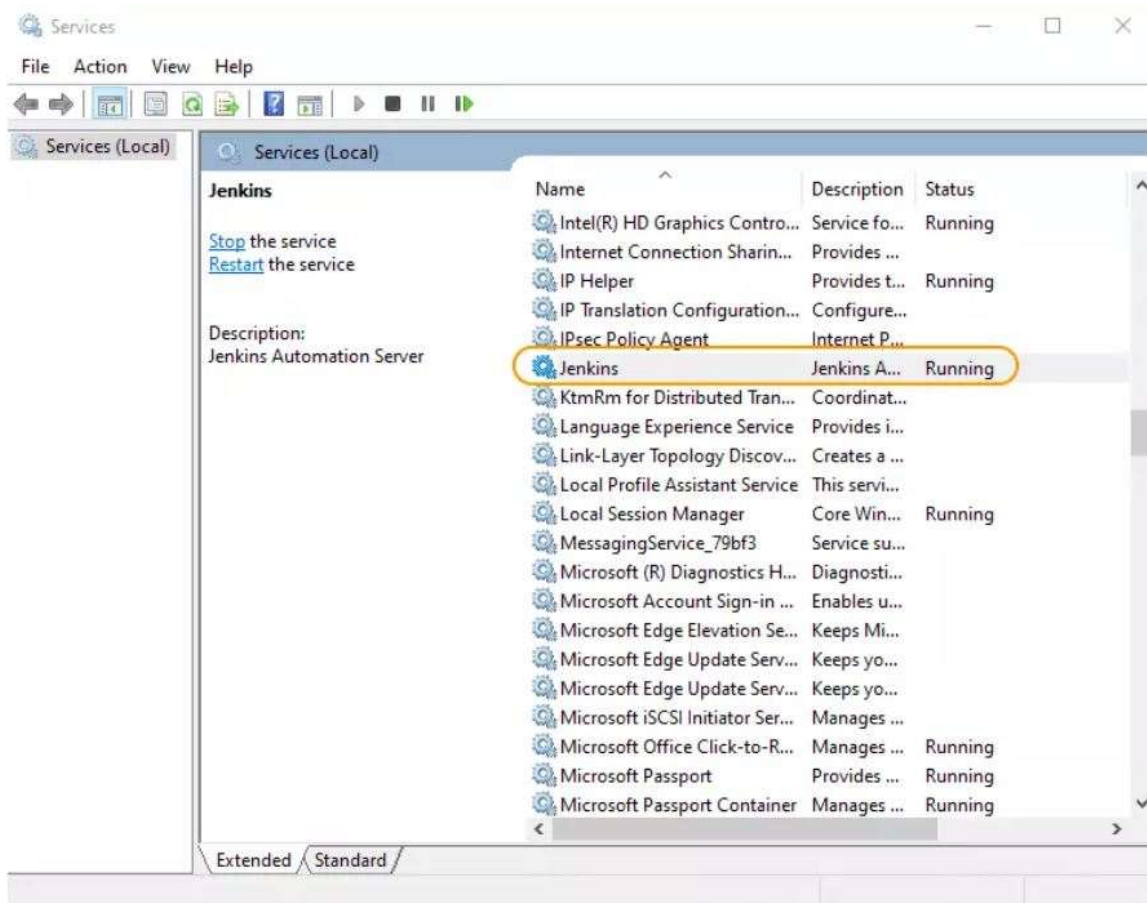
Additionally, clicking on the **Install** button will show the progress bar of installation, as shown below:



Step 8: Finish Jenkins installation

Once the installation completes, click on **Finish** to complete the installation.

Jenkins will be installed as a **Windows Service**. You can validate this by browsing the **services** section, as shown below:



See the [upgrade steps](#) when you upgrade to a new release.

Post-installation setup wizard

After downloading, installing and running Jenkins, the post-installation setup wizard begins.

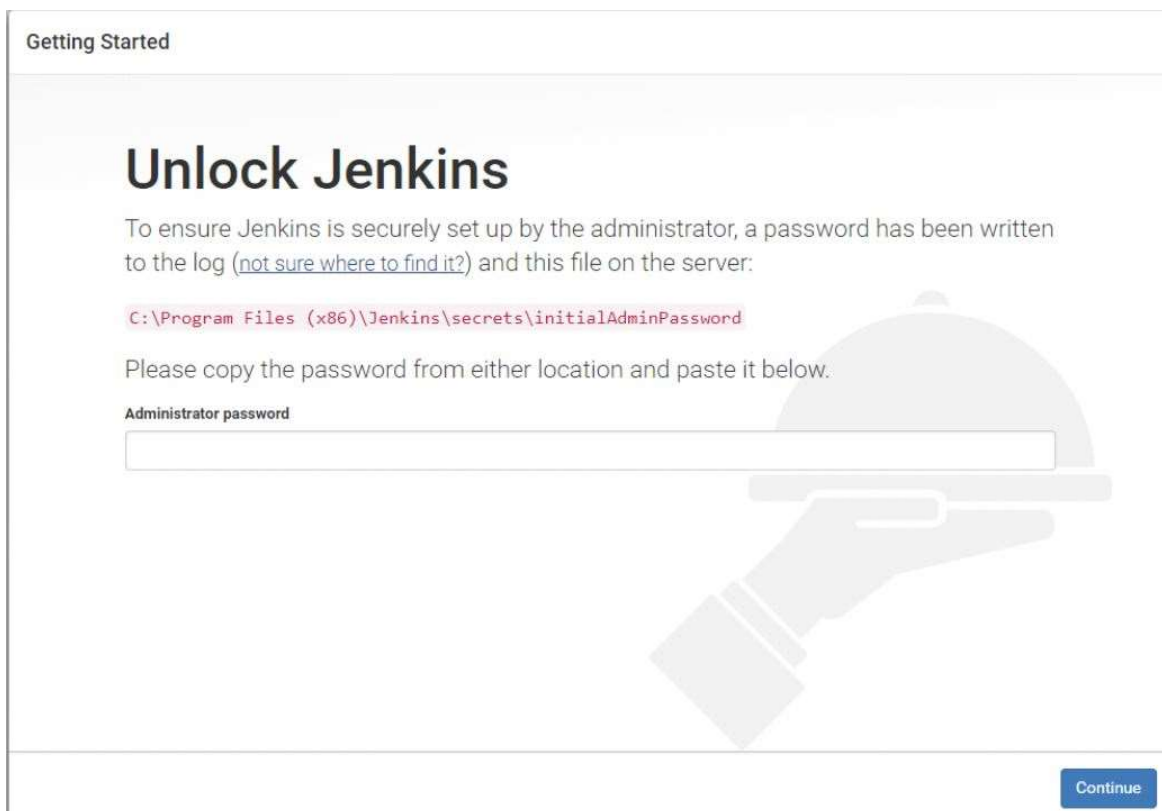
This setup wizard takes you through a few quick "one-off" steps to unlock Jenkins, customize it with plugins and create the first administrator user through which you can continue accessing Jenkins.

Unlocking Jenkins

When you first access a new Jenkins instance, you are asked to unlock it using an automatically-generated password.

Step 1

Browse to <http://localhost:8080> (or whichever port you configured for Jenkins when installing it) and wait until the **Unlock Jenkins** page appears.

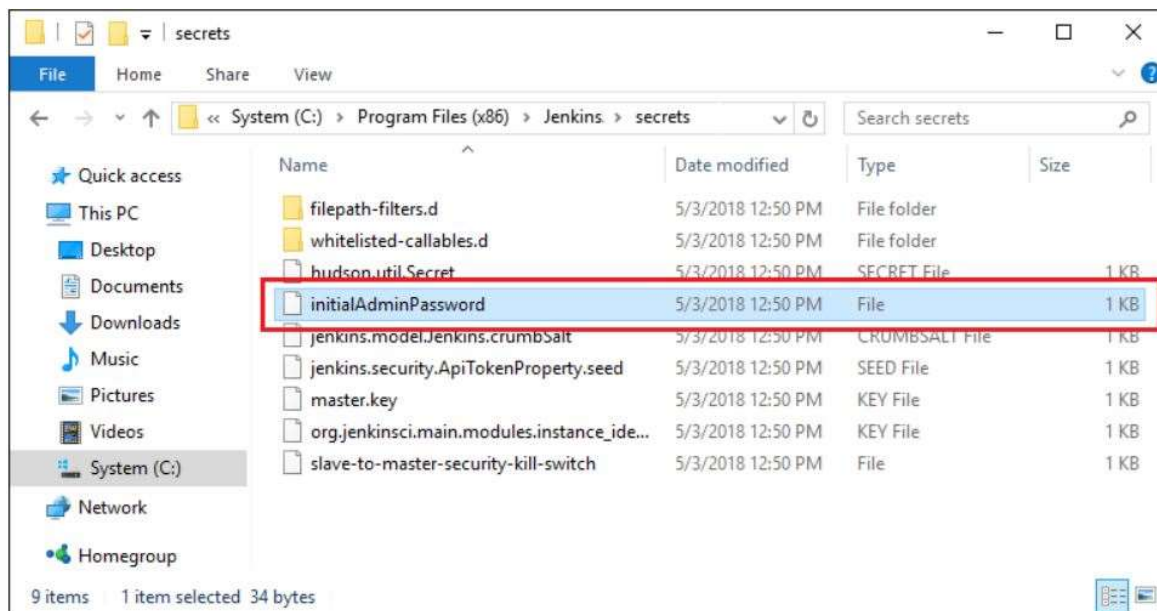


Step 2

The initial Administrator password should be found under the Jenkins installation path (set at Step 2 in Jenkins Installation).

For default installation location to `C:\Program Files\Jenkins`, a file called **initialAdminPassword** can be found under `C:\Program Files\Jenkins\secrets`.

However, If a custom path for Jenkins installation was selected, then you should check that location for **initialAdminPassword** file.



Step 3

Open the highlighted file and copy the content of the **initialAdminPassword** file.

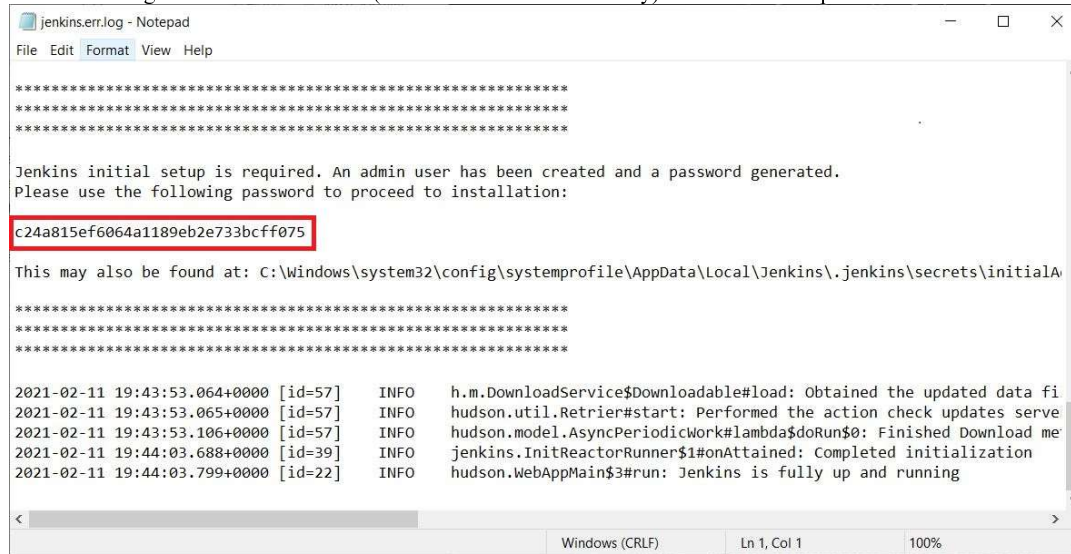


Step 4

On the **Unlock Jenkins** page, paste this password into the **Administrator password** field and click **Continue**.

Notes:

- You can also access Jenkins logs in the **jenkins.err.log** file in your Jenkins directory specified during the installation.
- The Jenkins log file is another location (in the Jenkins home directory) where the initial password can also be obtained.



This password must be entered in the setup wizard on new Jenkins installations before you can access Jenkins's main UI. This password also serves as the default administrator account's password (with username "admin") if you happen to skip the subsequent user-creation step in the setup wizard.

Customizing Jenkins with plugins

After [unlocking Jenkins](#), the **Customize Jenkins** page appears. Here you can install any number of useful plugins as part of your initial setup.

Click one of the two options shown:

- **Install suggested plugins** - to install the recommended set of plugins, which are based on most common use cases.
- **Select plugins to install** - to choose which set of plugins to initially install. When you first access the plugin selection page, the suggested plugins are selected by default.

If you are not sure what plugins you need, choose **Install suggested plugins**. You can install (or remove) additional Jenkins plugins at a later point in time via the [Manage Jenkins](#) > [Manage Plugins](#) page in Jenkins.

The setup wizard shows the progression of Jenkins being configured and your chosen set of Jenkins plugins being installed. This process may take a few minutes.

Creating the first administrator user

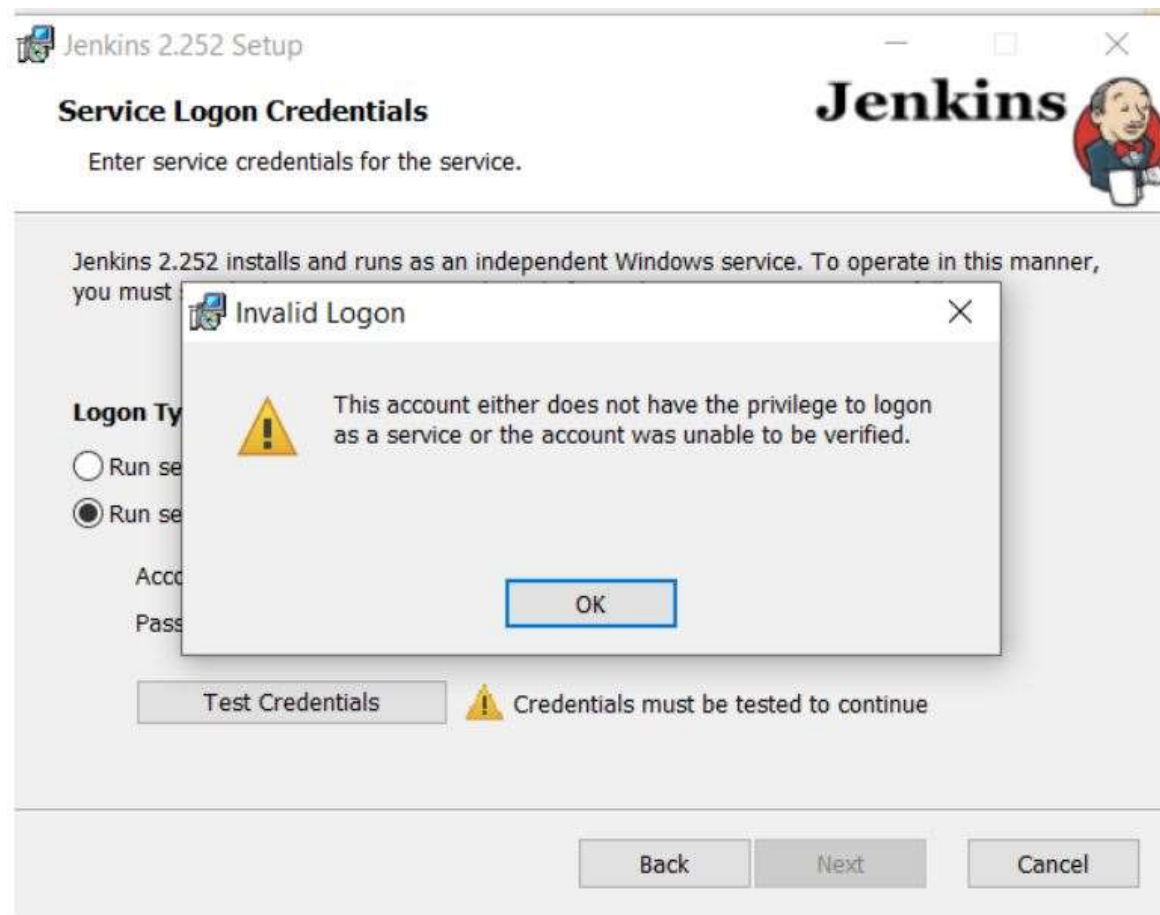
Finally, after [customizing Jenkins with plugins](#), Jenkins asks you to create your first administrator user.

1. When the **Create First Admin User** page appears, specify the details for your administrator user in the respective fields and click **Save and Finish**.
2. When the **Jenkins is ready** page appears, click **Start using Jenkins**.

Notes:

- This page may indicate **Jenkins is almost ready!** instead and if so, click **Restart**.
 - If the page does not automatically refresh after a minute, use your web browser to refresh the page manually.
3. If required, log in to Jenkins with the credentials of the user you just created and you are ready to start using Jenkins!

Troubleshooting Windows installation

Invalid service logon credentials

When installing a service to run under a domain user account, the account must have the right to logon as a service. This logon permission applies strictly to the local computer and must be granted in the Local Security Policy.

Perform the following steps below to edit the Local Security Policy of the computer you want to define the 'logon as a service' permission:

1. Logon to the computer with administrative privileges.
2. Open the **Administrative Tools** and open the **Local Security Policy**
3. Expand **Local Policy** and click on **User Rights Assignment**
4. In the right pane, right-click **Log on as a service** and select properties.
5. Click on the **Add User or Group...** button to add the new user.
6. In the **Select Users or Groups** dialogue, find the user you wish to enter and click **OK**
7. Click **OK** in the **Log on as a service Properties** to save changes.

After completing the steps above, try logging in again with the added user.

[⇐ WAR files](#)
[↑ Installing Jenkins](#)
[Index](#)
[Other Systems ⇒](#)

[Was this page helpful?](#)

Please submit your feedback about this page through this [quick form](#).

Alternatively, if you don't wish to complete the quick form, you can simply indicate if you found this page helpful?

☐ Yes ☐ No

Type the answer to 2 plus 4 before clicking "Submit" below.

See existing feedback [here](#).



[Improve this page](#) [Report a problem](#)



The content driving this site is licensed under the Creative Commons Attribution-ShareAlike 4.0 license.

Resources

- [Downloads](#)
- [Blog](#)
- [Documentation](#)
- [Plugins](#)
- [Security](#)

- [Contributing](#)

Project

- [Structure and governance](#)
- [Issue tracker](#)
- [Roadmap](#)
- [GitHub](#)
- [Jenkins on Jenkins](#)

Community

- [Forum](#)
- [Events](#)
- [Mailing lists](#)
- [Chats](#)
- [Special Interest Groups](#)
- [Twitter](#)
- [Reddit](#)

Other

- [Code of Conduct](#)
- [Press information](#)
- [Merchandise](#)
- [Artwork](#)
- [Awards](#)