[Jenkins](#)

- What is CDF? Jenkins X Tekton Spinnaker

- Blog
- Documentation
  User Guide - Installing Jenkins - Jenkins Pipeline - Managing Jenkins - Securing Jenkins - System Administration - Troubleshooting Jenkins - 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
  Search
- Download

[> User Documentation Home](#)

User Handbook

Tutorials

Resources

WAR files

Table of Contents

The Web application ARchive (WAR) file version of Jenkins can be installed on any operating system or platform that runs a version of Java supported by Jenkins. See the Java Requirements page for details.

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

- For Linux operating system: Linux Support Policy

Run the WAR file

The Jenkins Web application ARchive (WAR) file can be started from the command line like this:

1. Download the latest stable Jenkins WAR file to an appropriate directory on your machine.

2. Open up a terminal/command prompt window to the download directory.

3. Run the command `java -jar jenkins.war`.

4. Browse to `http://localhost:8080` and wait until the **Unlock Jenkins** page appears.

5. Continue on with the Post-installation setup wizard below.

Notes:

- Unlike downloading and running Jenkins with Blue Ocean in Docker (above), this process does not automatically install the Blue Ocean features, which would need to installed separately via the **Manage Jenkins** > **Manage Plugins** page in Jenkins. Read more about the specifics for installing Blue Ocean on the Getting started with Blue Ocean page.

- You can change the port by specifying the `--httpPort` option when you run the `java -jar jenkins.war` command. For example, to make Jenkins accessible through port 9090, then run Jenkins using the command:
  `java -jar jenkins.war --httpPort=9090`

Post-installation setup wizard

After downloading, installing and running Jenkins using one of the procedures above (except for installation with Jenkins Operator), 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.

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

2. From the Jenkins console log output, copy the automatically-generated alphanumeric password (between the 2 sets of asterisks).

Note:

- The command: `sudo cat /var/lib/jenkins/secrets/initialAdminPassword` will print the password at console.

- If you are running Jenkins in Docker using the official `jenkins/jenkins` image you can use `sudo docker exec ${CONTAINER_ID or CONTAINER_NAME} cat /var/jenkins_home/secrets/initialAdminPassword` to print the password in the console without having to exec into the container.

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

   - You can always access the Jenkins console log from the Docker logs (above).

   - The Jenkins console log indicates the location (in the Jenkins home directory) where this 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!

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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](#)