

4. Jenkins installation and setup, explore the environment.

Detailed Guide to Install and Set Up Jenkins on Windows

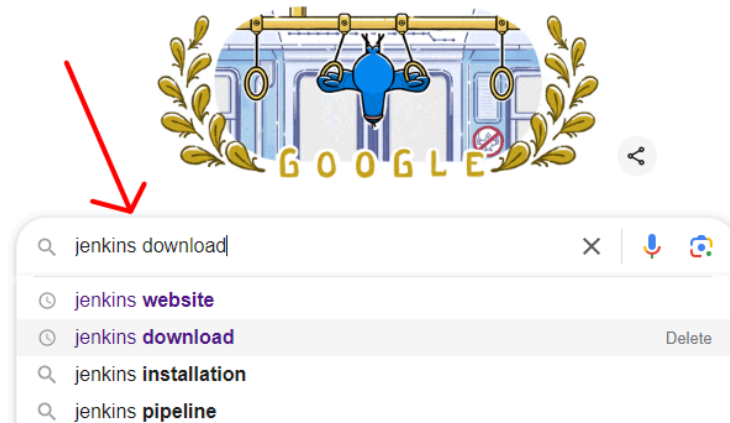
Prerequisites

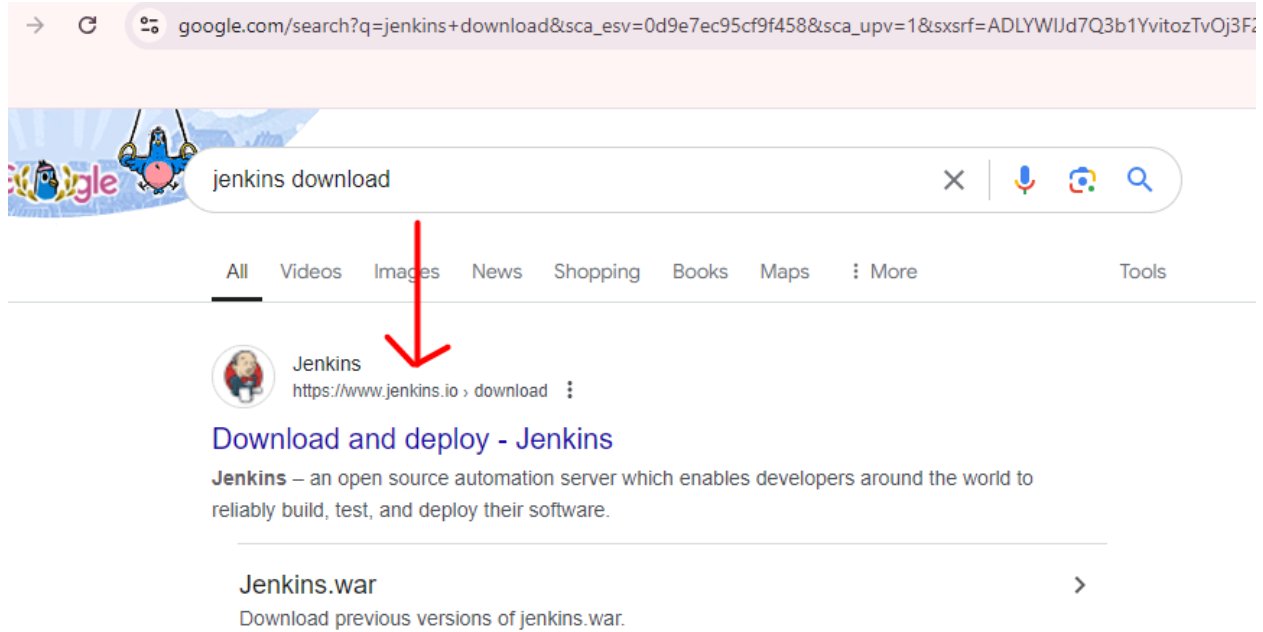
- ❖ Ensure you have Java installed. Jenkins requires Java 8 or Java 11.
 - Download and install Java from the [Oracle website](#).
 - Set the JAVA_HOME environment variable:
 - Right-click on "This PC" or "My Computer" and select "Properties".
 - Click on "Advanced system settings".
 - Click on "Environment Variables".
 - Under "System variables", click "New" and add JAVA_HOME with the path to your Java installation (e.g., C:\Program Files\Java\jdk-11).

2. Download Jenkins

Visit Jenkins website

[Gmail](#) [Images](#)





Go to the Jenkins website (<https://www.jenkins.io/>)

The Jenkins project produces two release lines: Stable (LTS) and weekly. We use Stable (LTS)

Downloading Jenkins

Jenkins is distributed as WAR files, native packages, installers, and Docker images. Follow these installation steps:

1. Before downloading, please take a moment to review the [Hardware and Software requirements](#) section of the User Handbook.
2. Select one of the packages below and follow the download instructions.
3. Once a Jenkins package has been downloaded, proceed to the [Installing Jenkins](#) section of the User Handbook.
4. You may also want to verify the package you downloaded. [Learn more about verifying Jenkins downloads.](#)

Download Jenkins 2.452.3 LTS for:

 Generic Java package (.war) SHA-256: 45fd2b877f9709a52b984d9c7d6f435bc05f6adee61291d22d30b5f1e8fd8c59	
 Docker	
 Kubernetes	
 Ubuntu/Debian	

Download Jenkins 2.470 for:

 Generic Java package (.war) SHA-256: 0143a231fa5a93e77bfd4d1283ae5df825a2d8d19343a400d02284768d56319f	
 Docker	
 Ubuntu/Debian	
 Red Hat/Fedora/Alma/Rocky/CentOS	

Activate W
Go to Settings

Click on Generic Java package

jenkins.war file will downloaded and saved in downloads folder

Once the jenkins.war is downloaded

Open command prompt and go the downloads folder

CA. Command Prompt

```
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

C:\Users\P c>cd Downloads

C:\Users\P c\Downloads>_
```

Type the following command
java -jar jenkins.war and hit enter

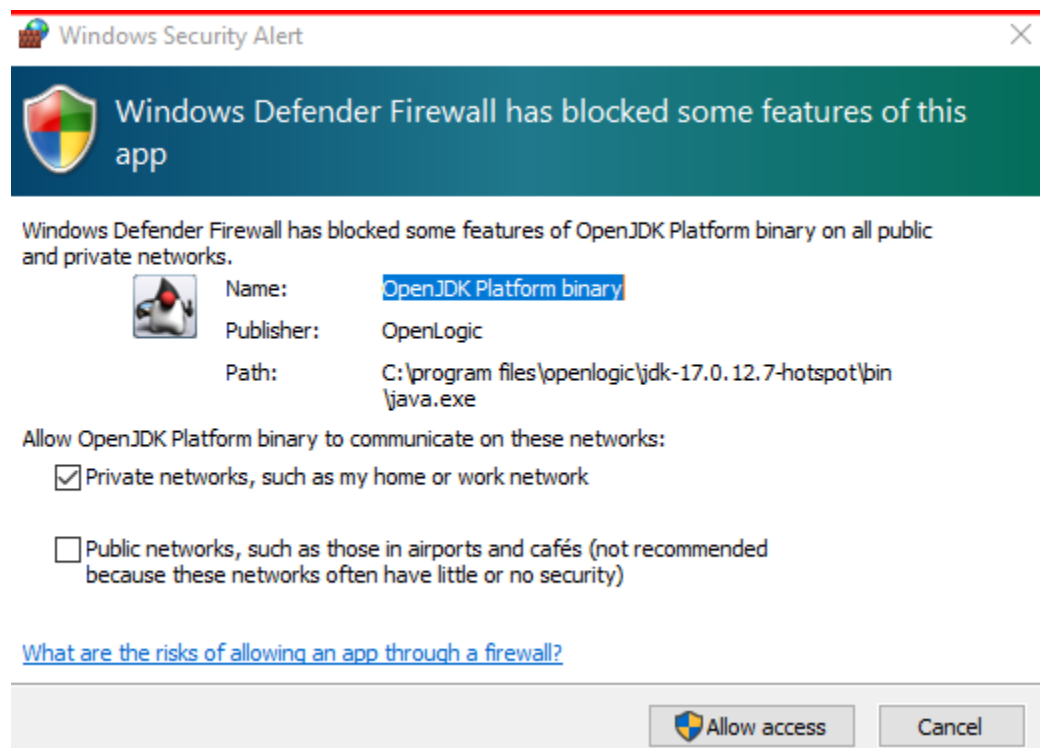
CA. Command Prompt

```
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

C:\Users\P c>cd Downloads

C:\Users\P c\Downloads>java -jar jenkins.war
```

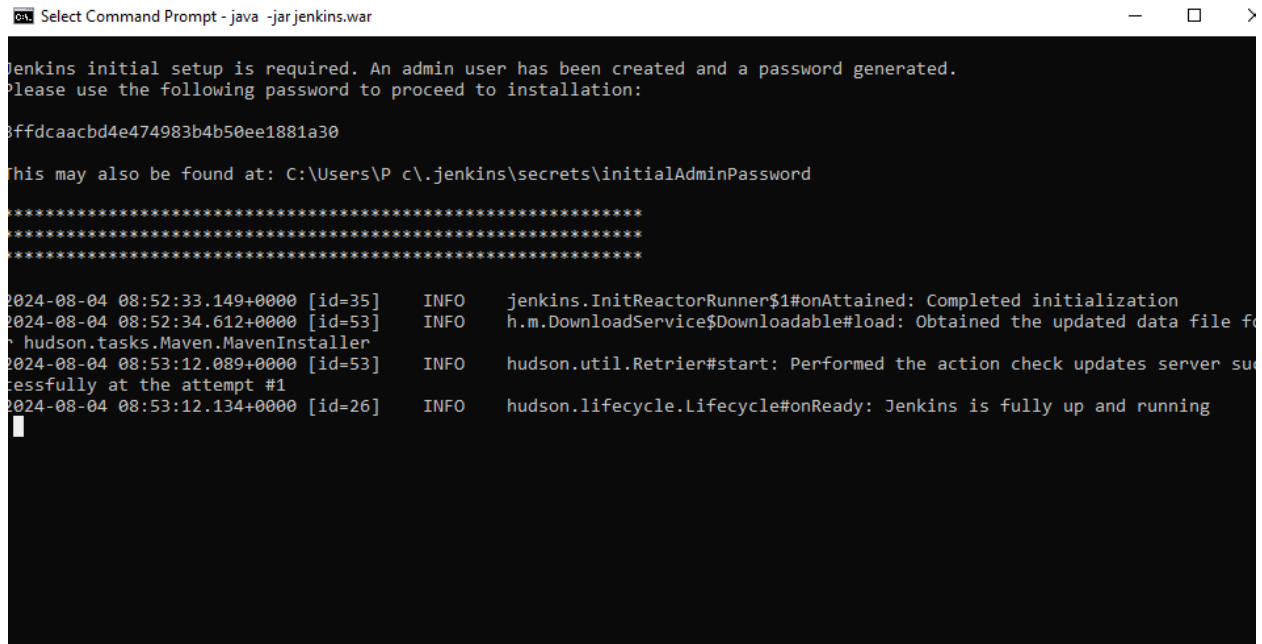
If you get below images then click on **Allow access**.



In the below image we get a message saying *jenkins up and running*, it generates one password in the *C:\Users\PC\.jenkins\secrets\initialAdminPassword* file.

Minimize the command prompt.

Open the initialPassword file and copy the password.



```
Select Command Prompt - java -jar jenkins.war

Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:

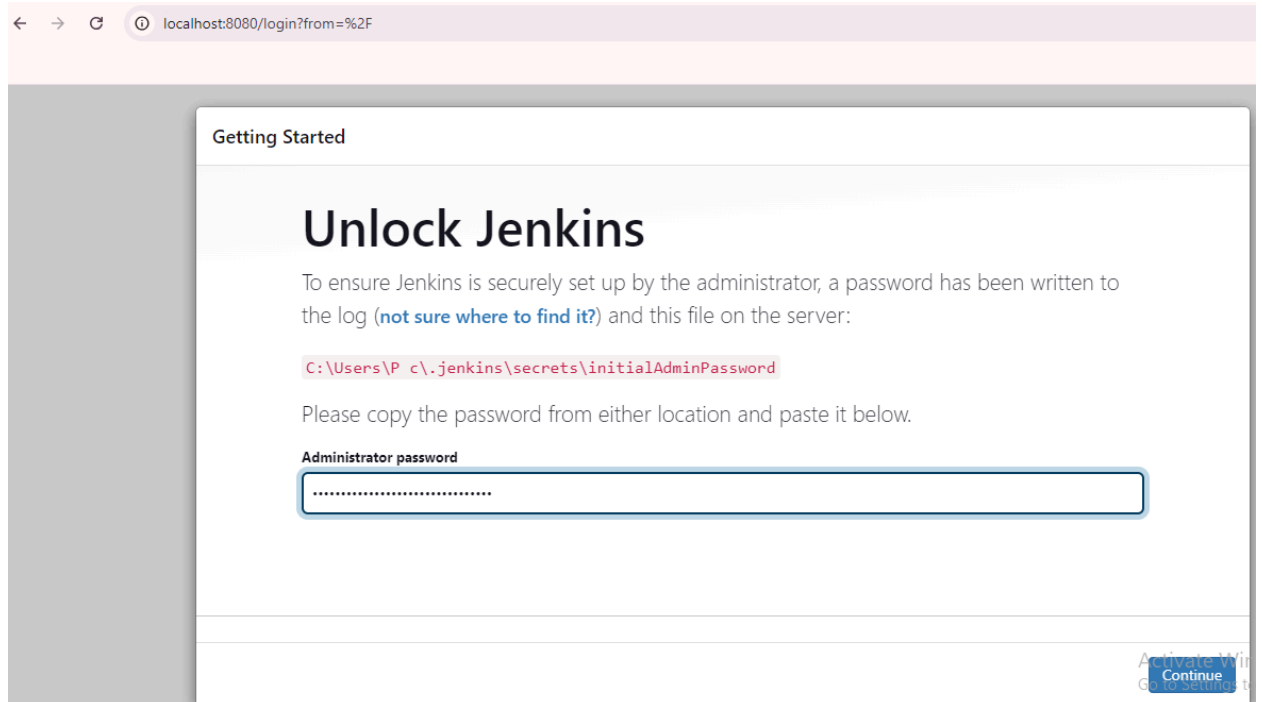
8ffdcacbd4e474983b4b50ee1881a30

This may also be found at: C:\Users\PC\.jenkins\secrets\initialAdminPassword

*****
*****
*****

2024-08-04 08:52:33.149+0000 [id=35] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
2024-08-04 08:52:34.612+0000 [id=53] INFO h.m.DownloadService$Downloadable#load: Obtained the updated data file fo
r hudson.tasks.Maven.MavenInstaller
2024-08-04 08:53:12.089+0000 [id=53] INFO hudson.util.Retrier#start: Performed the action check updates server suc
cessfully at the attempt #1
2024-08-04 08:53:12.134+0000 [id=26] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running
```

Paste the password in the Administrator password textfield and hit continue.



In the below image select and press Install suggested plugins option.

Getting Started

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

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Activate
Go to Settings

Wait until all the plugins are installed.

Getting Started

Getting Started

☒ Folders	☐ OWASP Markup Formatter	☐ Build Timeout	☐ Credentials Binding	☐ OWASP Markup Formatter
☐ Timestampers	☐ Workspace Cleanup	☐ Ant	☐ Gradle	
☐ Pipeline	☐ GitHub Branch Source	☐ Pipeline: GitHub Groovy Libraries	☐ Pipeline Graph View	
☐ Git	☐ SSH Build Agents	☐ Matrix Authorization Strategy	☐ PAM Authentication	
☐ LDAP	☐ Email Extension	☐ Mailer	☐ Dark Theme	

** - required dependency

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Create the Username , password and all necessary fields

Create First Admin User

Username

Password

Confirm password

Full name

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[Skip and continue as admin](#)

[Save and Continue](#)

Instance Configuration

Jenkins URL:

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the `BUILD_URL` environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

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[Not now](#)

[Save and Finish](#)

Save the Finish the process

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

Start using Jenkins



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Jenkins are successfully installed. When you hit start using jenkins button you will get the below dashboard page

 **Jenkins**

Search (CTRL+K) ?

🛡️ 1 👤 Gujjula Deepak ▾ 🚪 log out

Dashboard >

+ New Item

📋 Build History

⚙️ Manage Jenkins

📅 My Views

Build Queue ▾

No builds in the queue.

Build Executor Status ▾

1 Idle

2 Idle

✎ Add description

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job +

Set up a distributed build

Set up an agent 🖥️

Configure a cloud ☁️

Learn more about distributed builds ⓘ

