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## Installing Jenkins in a Local Environment

### Step 1: Install Java

1. Install Oracle Java (version 17 to 21) that is compatible with Jenkins.

### Step 2: Download Jenkins

2. Open a web browser and visit [Jenkins official website](https://jenkins.io) (Jenkins.io).
3. Click on the **Download button**.
4. Scroll down to the **Download Jenkins LTS section**.
5. Choose the **appropriate version** for your operating system.
6. For Windows, click on the **Windows option**.
7. The **Jenkins.msi** file will start downloading.

### Step 3: Install Jenkins

8. Save the file in the c drive under program files
9. Once the download is complete, **click on the downloaded file**.
10. The **Jenkins Setup Wizard will open**. Click Next.
11. Select the **installation path** and click Next.
12. Under Service Logon Credentials, choose:
  - **Run service as a local system** (*not recommended, but available*).
13. Click **Next**.
14. The default port is 8080. **Click Test Port to verify**.
15. Click **Next**.
16. Select the Java JDK path (compatible version 17-21).
17. Click **Next**.
18. In the Custom Setup section, **leave everything as default and click Next**.

19. Click **Install**.

20. If prompted, click Yes to allow the app to make changes.

21. Once the installation is complete, click Finish.

#### **Step 4: Start and Unlock Jenkins**

21. Open a browser and go to <https://localhost:8080/>.

22. If Jenkins is successfully installed, the Unlock Jenkins page will appear.

23. To unlock Jenkins, locate the initial admin password:

- Copy the file path displayed on the screen.
- Open File Explorer, paste the copied path, and locate the file.
- Right-click the file and open it with Notepad.
- Copy the initial admin password.

24. Paste the copied password into the Administrator Password field.

25. Click Continue.

#### **Step 5: Configure Jenkins**

26. On the Customize Jenkins page, select Install Suggested Plugins.

27. Wait for all plugins to be installed.

28. Once installation is complete, create the first admin user:

- Enter your Username.
- Enter and confirm your Password.
- Enter your Full Name.
- Enter your Email Address.

29. Click Save and Continue.

30. Under Instance Configuration, click Save and Finish.

31. Jenkins is now ready! Click Start using Jenkins.

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