Aim - Install Jenkins on Windows.

Theory -

What is Jenkins?

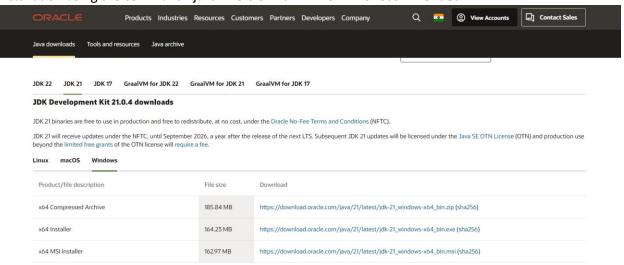
Jenkins is an open-source automation server that facilitates continuous integration and continuous delivery (CI/CD) in software development. It allows developers to automate various stages of the software development lifecycle, including building, testing, and deploying applications.

Key Features of Jenkins:

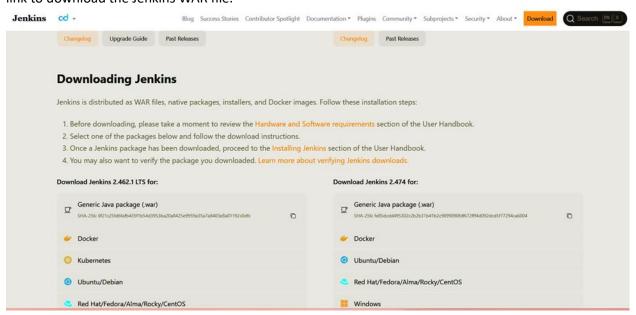
- Automation: Automates repetitive tasks in the development process.
- Plugin Architecture: Extensible through a rich ecosystem of plugins.
- Cross-Platform: Runs on various operating systems including Windows, macOS, and Linux.
- Web Interface: Provides a web-based user interface to configure and monitor jobs.

Steps -

1. Install Java Development Kit (JDK). Download it from Oracle JDK Download Page and verify it installation using the command "java --version". JDK 17 or 21 is recommended.



2. Visit the Jenkins Download Page. Under the "Generic Java package (.war)" section, click on the link to download the Jenkins WAR file.

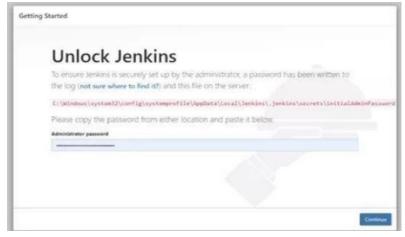


- 3. Move to the directory where "jenkins.war" file is installed.
- 4. Open a Command Prompt and run Jenkins using the following command "java -jar jenkins.war".

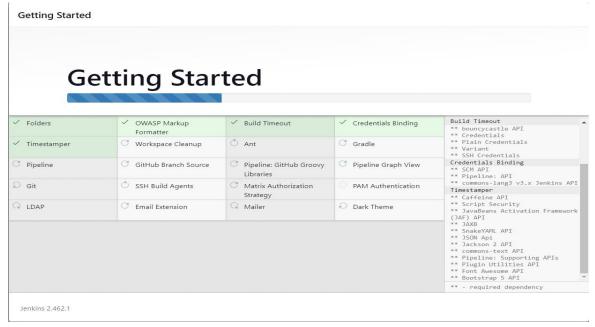
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Microsoft Windows [Version 10.0.22631.4112]
(c) Microsoft Corporation. All rights reserved.

D:\Jenkins>java -jar jenkins.war
```

- 5. Open a web browser and navigate to "http://localhost:8080".
- 6. On first access, Jenkins will prompt you to unlock it. Retrieve the unlock key from the file secrets/initialAdminPassword. This file is located in the Jenkins home directory, which defaults to C:\Users\<YourUsername>\.jenkins if not specified otherwise.

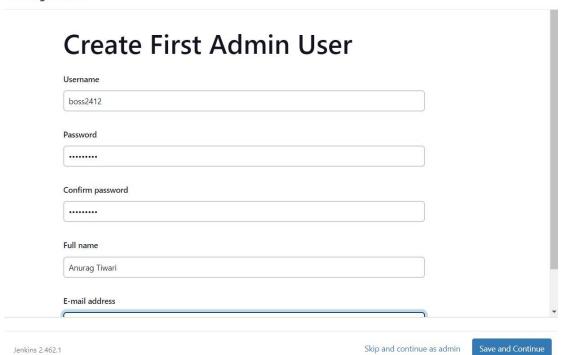


- 7. Paste the copied password into the Jenkins setup page to unlock Jenkins.
- 8. Follow the setup wizard to install suggested plugins and create the first admin user.



9. Create first Admin User for future use.

Getting Started



10. Use Jenkins.

localhost:8080/newJob

