

Getting Started With Jenkins

SS

Shivraj Salunkhe · Jul 28, 2023 · 📖 3 min read



Jenkins

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What is Jenkins ?

Jenkins is an open-source automation tool widely used for continuous integration and continuous delivery (**CI/CD**) of software projects. It helps developers automate the process of building, testing, and deploying code changes to production environments, making the software development lifecycle more efficient and reliable.

Key features of Jenkins include:

1. **Continuous Integration (CI):** Jenkins allows developers to integrate code changes from multiple team members into a shared repository continuously. Whenever code changes are pushed to the repository, Jenkins can automatically trigger build and testing processes.
2. **Continuous Delivery (CD):** Jenkins facilitates the delivery of software changes to various environments, including staging and production, by automating the deployment process. It helps in reducing the risk of manual errors and ensures consistent deployments.
3. **Plugin Support:** Jenkins provides a vast ecosystem of plugins that extend its functionality. These plugins enable integration with various tools and services,

such as version control systems (e.g., Git, SVN), build tools (e.g., Maven, Gradle), testing frameworks, and deployment platforms.

4. **Scalability:** Jenkins can be scaled to accommodate complex build pipelines and distributed build environments, allowing it to handle larger projects and teams effectively.

Jenkins has become an essential tool for modern software development practices, enabling teams to automate repetitive tasks, improve collaboration, and deliver high-quality software at a faster pace. Its open-source nature and active community support have contributed to its widespread adoption across various industries and development teams of all sizes.

Task :

--> **What you understood in Jenkins, write a small article in your own words.**

Jenkins is an open source automation server. It helps automate the parts of software development related to building, testing, and deploying, facilitating continuous integration and continuous delivery.

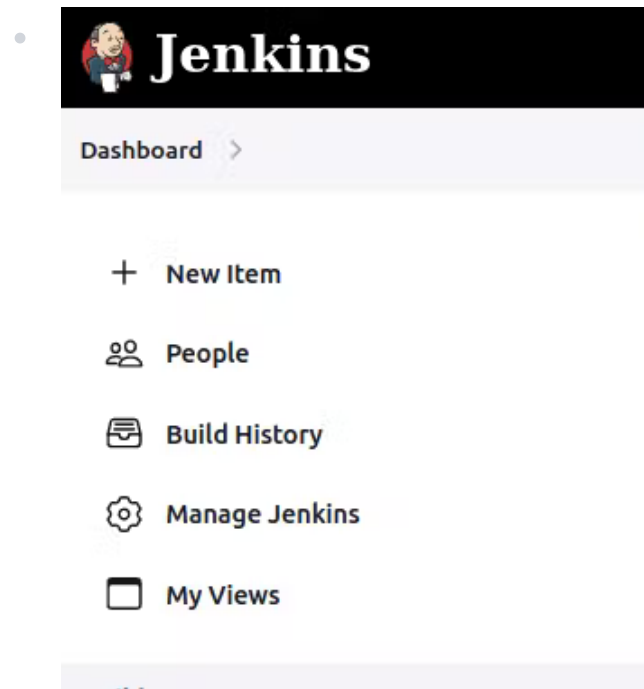
Jenkins is a tool written in the Java programming language.

--> **Create a freestyle pipeline to print "Hello World!!"**

- Jenkins uses port **8080**.

- **Log in** to Jenkins and navigate to the main dashboard.

- Click on the "**New Item**" button on the sidebar as shown in below image.



Give your project a name, select "**Freestyle project**" as the job type and click on "**OK**" button.

Enter an item name

First_pipeline

» Required field

 **Freestyle project**
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

 **Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.


 **Configuration project**


OK


- After this you will reach a configure page where you have different option like **source code management, build triggers, build environment, and build steps** that help you to manage your job.


Dashboard > First_pipeline > Configuration


Configure


 **General**

 Source Code Management

 Build Triggers

 Build Environment

 Build Steps

 Post-build Actions

Description

This job is for Hello World project.

[Plain text] [Preview](#)

☐ Discard old builds ?

☐ GitHub project

☐ This project is parameterized ?

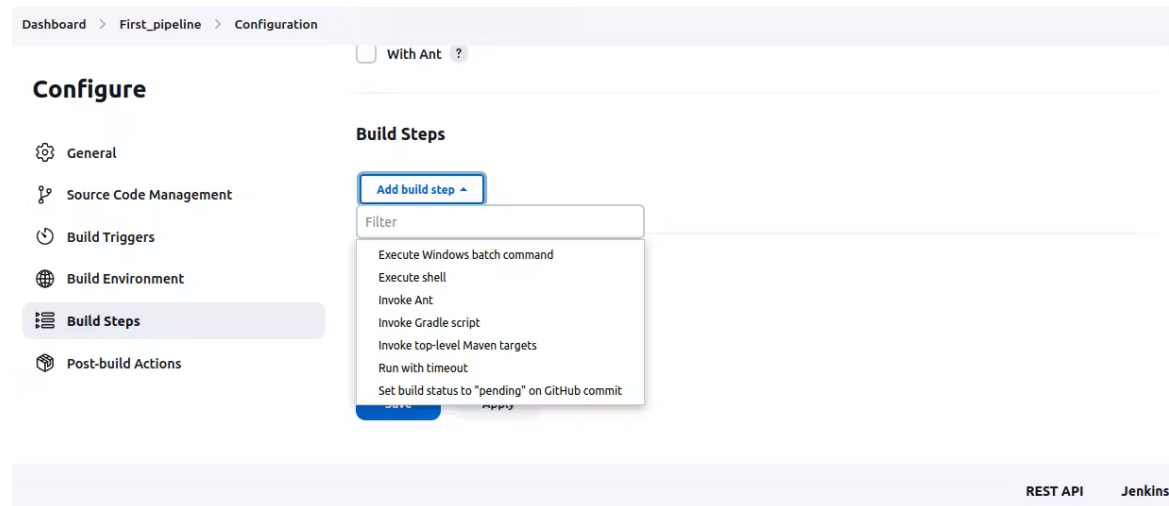
☐ Throttle builds ?

☐ Execute concurrent builds if necessary ?

[Save](#) [Apply](#)

- provide description as per need, choose none in source code management as we are creating simple project.

- Now In the "**build section**" we have an option '**Execute Shell**' by which we can write some commands or code:



- In the build step, you can specify the task you want to perform, such as executing shell commands, running scripts, or building with a specific tool.
- In the command field, enter the command to print "Hello World", such as **echo "Hello World"**

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps**
- Post-build Actions

Execute shell ?

Command

See [the list of available environment variables](#)

```
echo "Hello World"
```

Advanced ▾

Add build step ▾

Save Apply

- once you've configured your project, click on the **"Save"** button to create the project.
- You can now run the project by clicking on the **"Build Now"** button.
- Check the **Console Output** for "Hello World" message.

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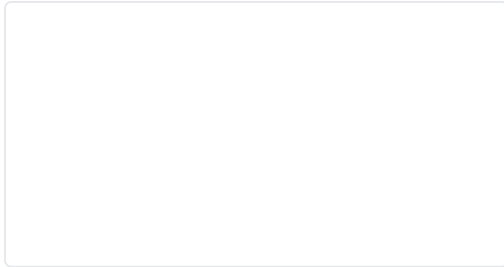
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Dedicated and hardworking undergraduate student pursuing a degree in Information Technology with a passion for learning, leadership experience, and real-world skills through internships and part-time jobs in IT sector. Actively looking for new Opportunities and committed to do personal and professional growth.

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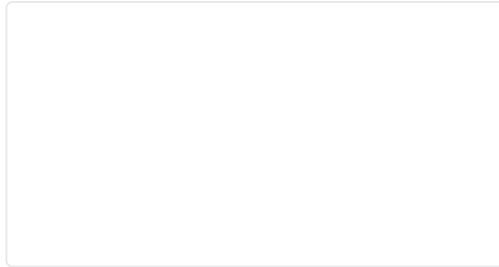
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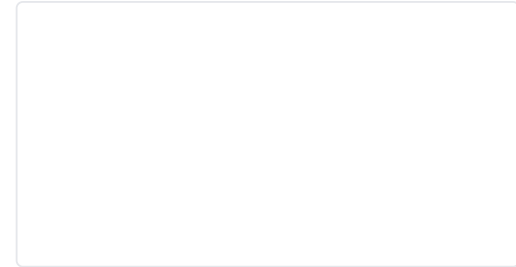
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Dockerfile in Docker for DevOps

A Dockerfile is a text file that contains instructions for building a Docker image. The Dockerfile d...

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