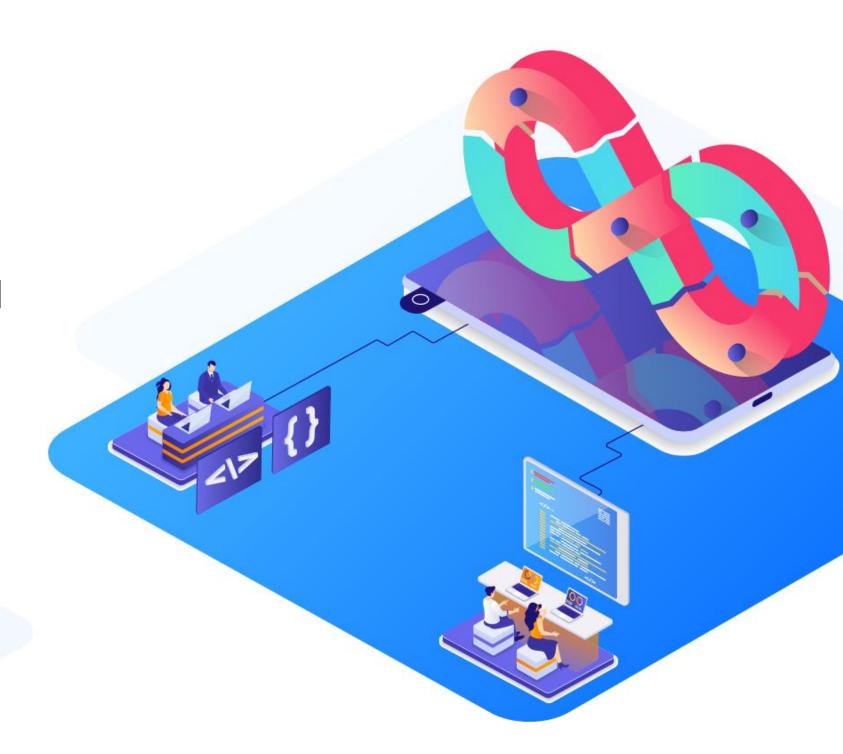
DevOps Foundations: Version Control and CI/CD with Jenkins



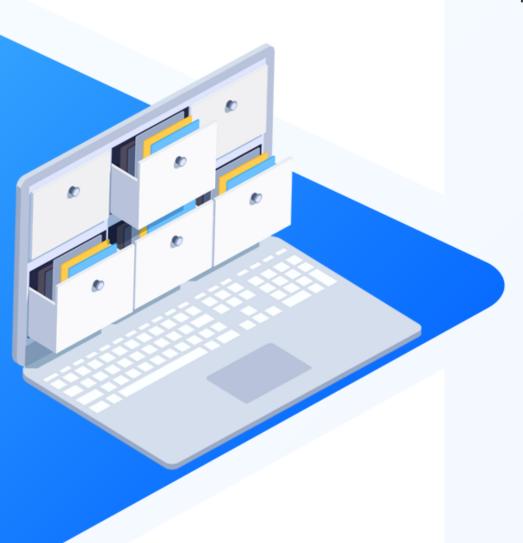
**Course-End Project** 



SlackUp Jenkins

# **Objective**

To create a Slack channel to receive Jenkins build notifications and use it to invoke Jenkins jobs remotely by configuring the slash commands in Slack



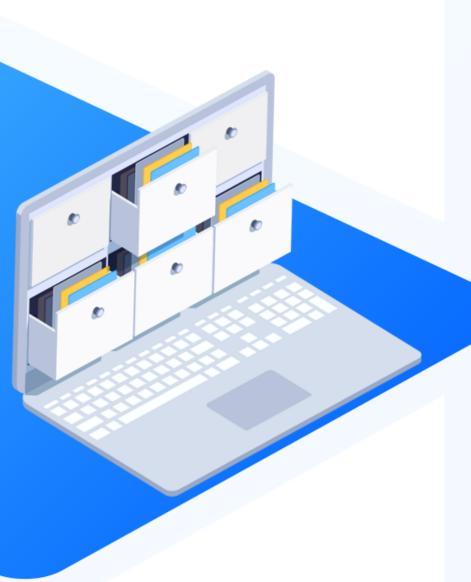
#### **Problem Statement and Motivation**

#### **Real-time scenario:**

You are a DevOps Engineer at La' Market that recently adopted a microservices-based architecture for its flagship web application. Different development teams manage the respective functionalities of the application.

To improve the efficiency of deploying updates and manage releases, the company has decided to enable developers to trigger Jenkins jobs directly from their Slack channels once the build is completed and the team's channel is notified on Slack.

You are tasked with implementing Slack integration in Jenkins to remotely invoke Jenkins jobs from a Slack channel, facilitating automated deployment processes and enabling real-time updates and team collaboration.



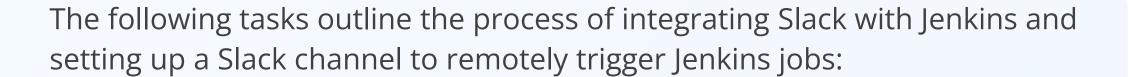
## **Industry Relevance**

The following tools used in this project serve specific purposes within the industry:

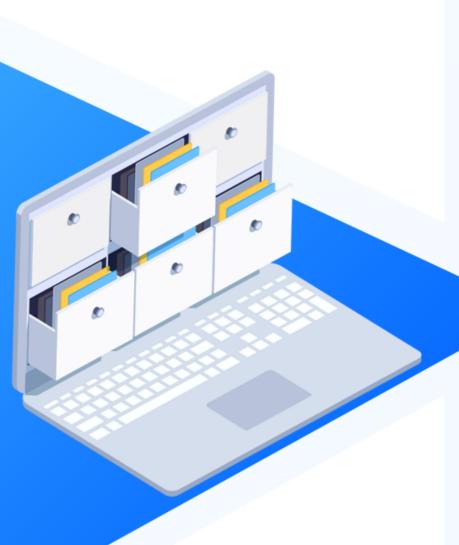
- 1. **Jenkins:** It is an open-source automation server commonly used in the software development industry for building, testing, and deploying projects. It supports continuous integration and continuous delivery (CI/CD) practices, enabling teams to increase efficiency, detect issues early, and accelerate software releases.
- 2. **Slack:** It is a widely-used collaboration tool that enhances communication and workflow efficiency across various industries by providing integrated chat, file sharing, and third-party app integrations.



#### **Tasks**



- 1. Create a Slack channel to get Jenkins build notifications
- 2. Configure Slack integration with the Jenkins plugin
- 3. Configure the post-build step to invoke Slack notification
- 4. Configure the slash command in Slack to invoke the Jenkins job

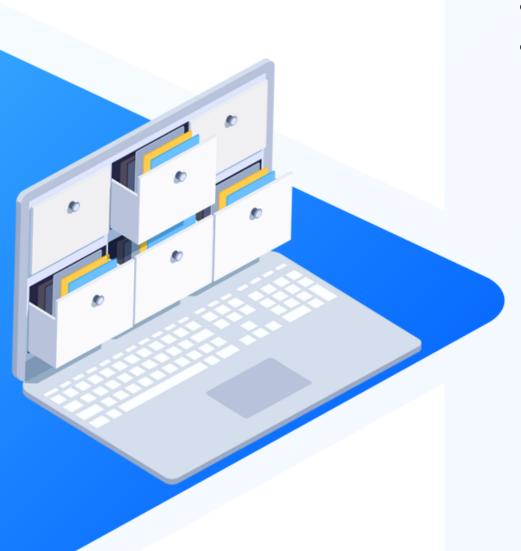


# **Project References**

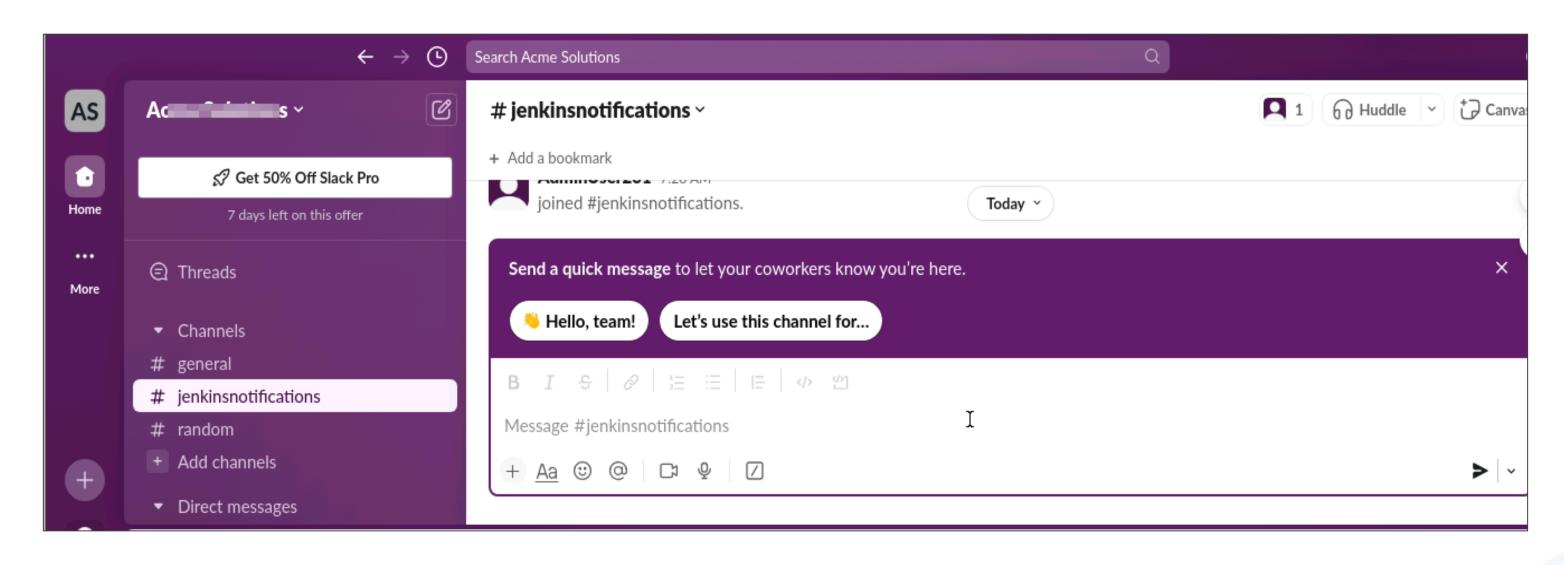
• **Task 1:** Lesson 07

• **Task 2:** Lesson 05

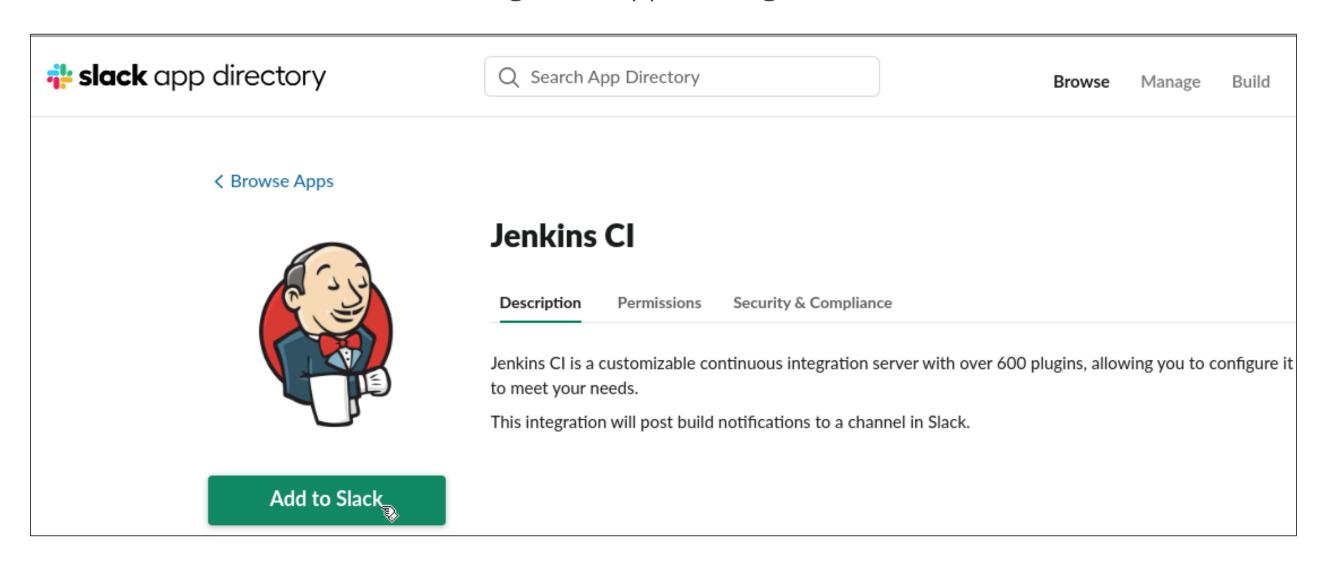
• Task 3 and 4: Lesson 06



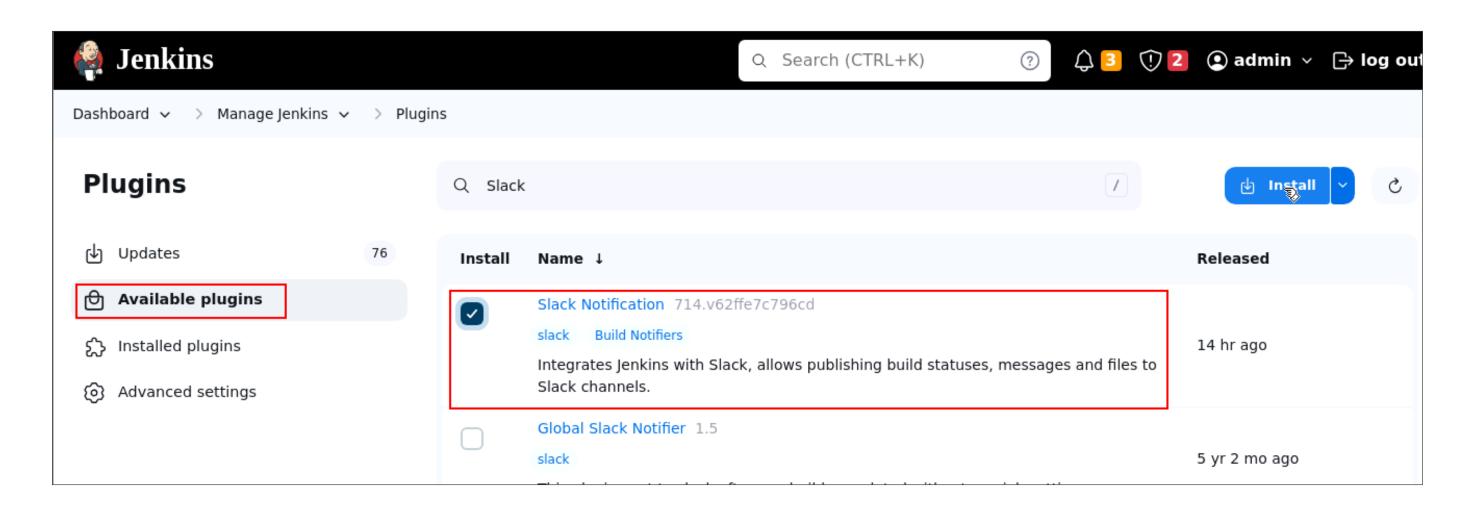
Slack channel to obtain Jenkins build notifications:



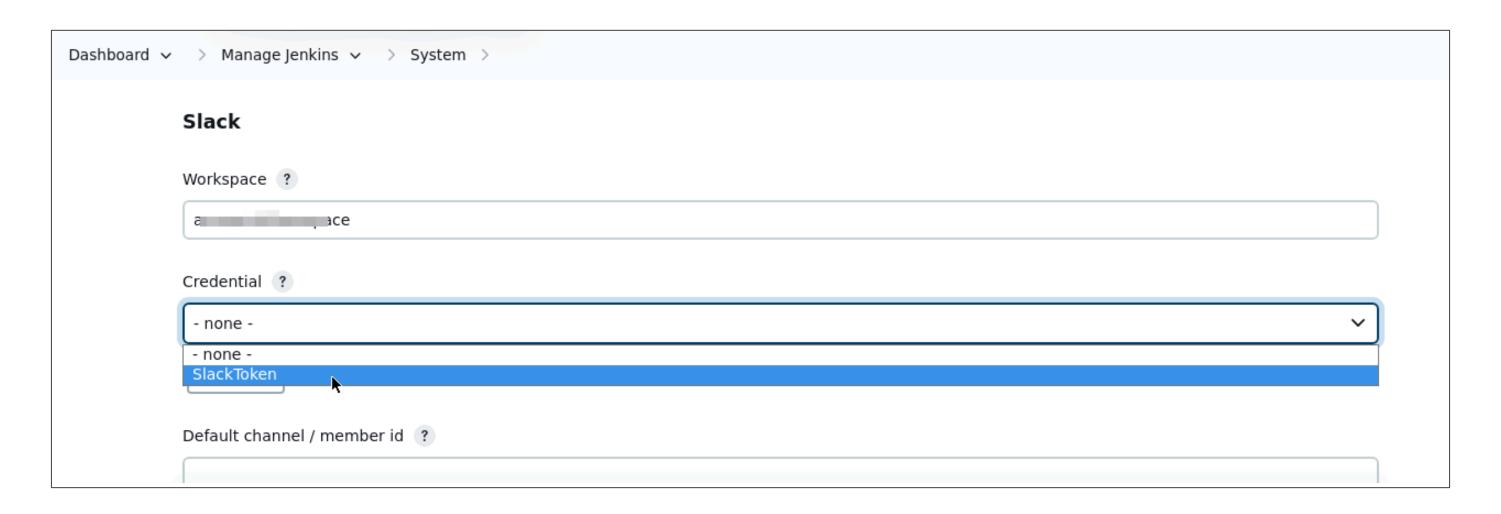
Slack Jenkins CI integration app to integrate Slack with Jenkins:



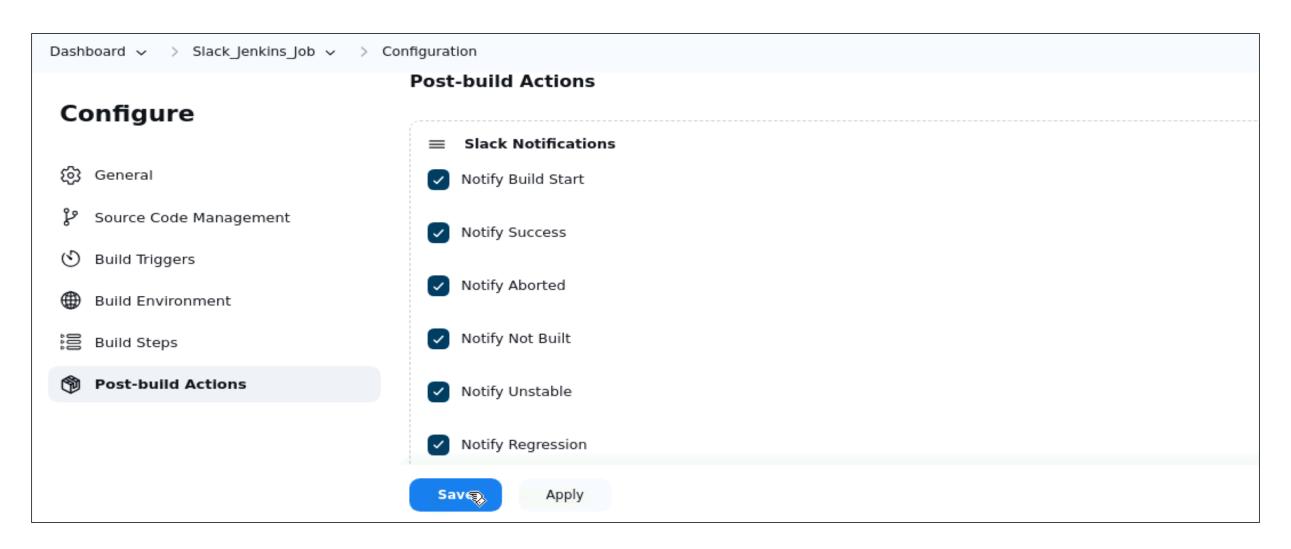
Slack Notification plugin for Jenkins:



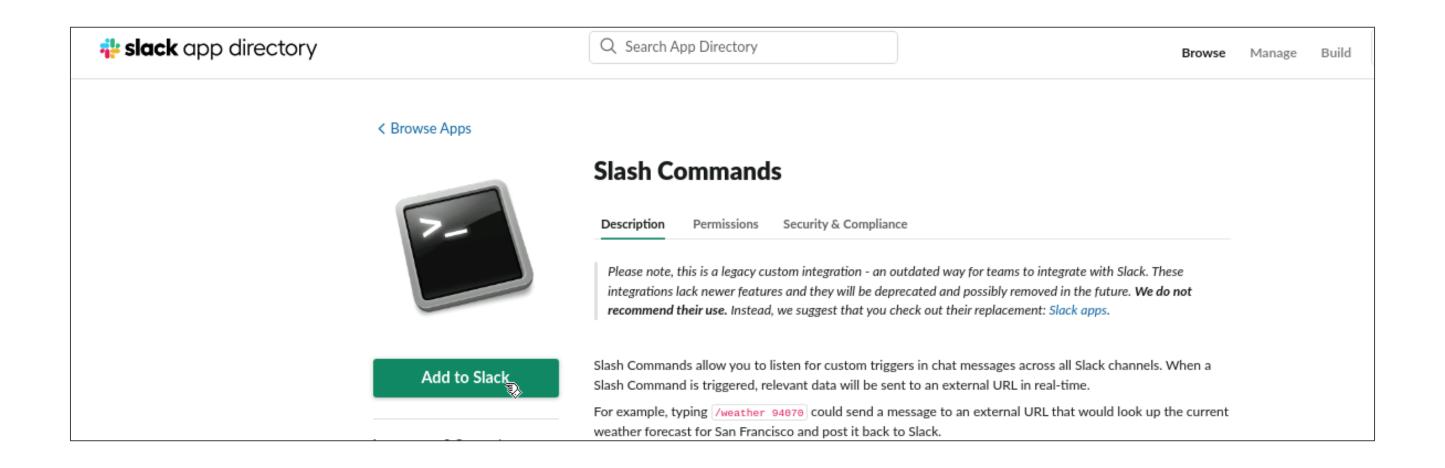
Slack plugin configuration in Jenkins:



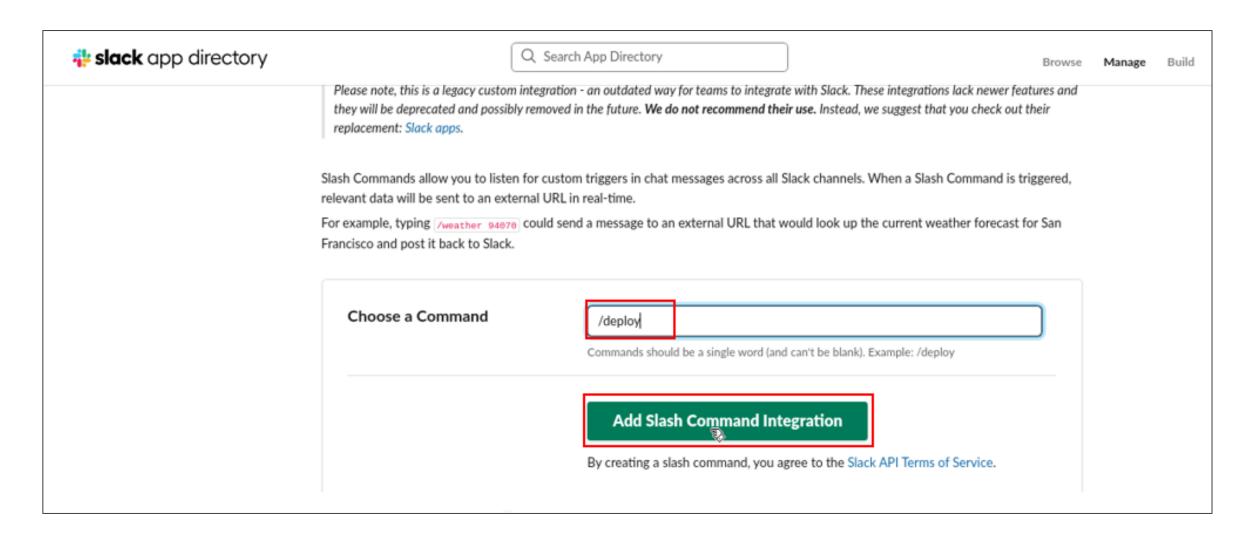
Slack notification configurations for Jenkins builds:



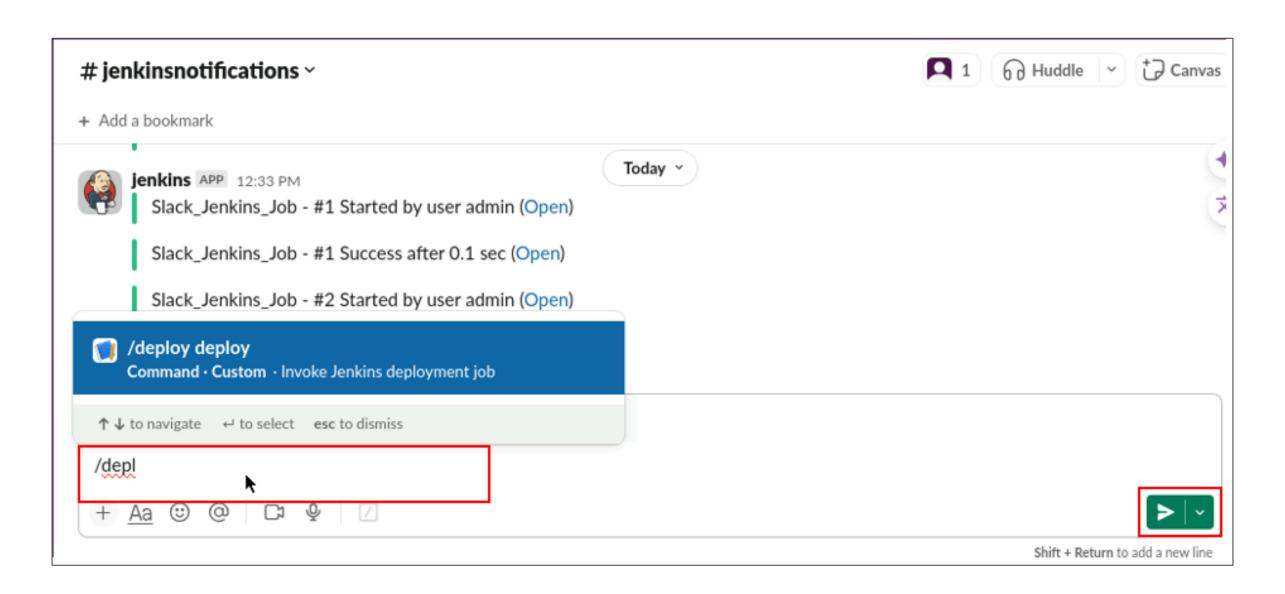
#### Slash commands integration with Slack:



Slash commands customization to remotely trigger Jenkins jobs:



Remote Jenkins job triggering using the configured slash command:



Thank you