Day 22: Getting Started with Jenkins

This is #90DaysofDevops challenge under the guidance of Shubham Londhe sir.

Day 22 TASK

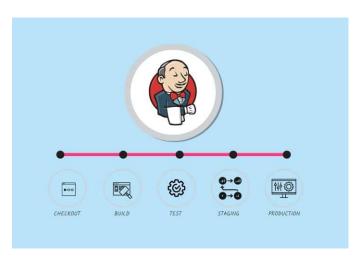
check this for task:

https://github.com/LondheShubham153/90DaysOfDevOps/tree/master/2023/day22

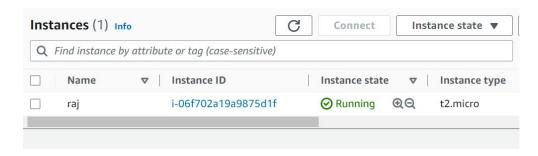
What is Jenkins?

- Jenkins is an open source continuous integration-continuous delivery and deployment (CI/CD) automation software DevOps tool written in the Java programming language. It is used to implement CI/CD workflows, called pipelines.
- Jenkins is a tool that is used for automation, and it is an open-source server that allows all the developers to build, test and deploy software. It works or runs on java as it is written in java. By using Jenkins we can make a continuous integration of projects(jobs) or end-to-endpoint automation.
- Jenkins achieves Continuous Integration with the help of plugins. Plugins allow the integration of Various DevOps stages. If you want to integrate a particular tool, you need to install the plugins for that tool. For example Git, Maven 2 project, Amazon EC2, HTML publisher etc.

Steps to Create a freestyle pipeline to print "Hello World!!



Step 1: Create an AWS EC2 instance and SSH into it.



Step 2: Install Jenkins on the EC2 instance.

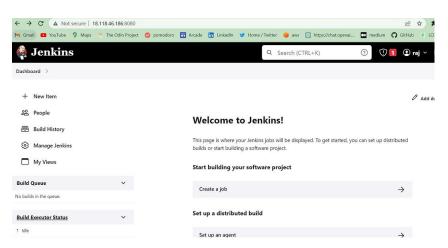
For steps to install jenkins check:

https://www.trainwithshubham.com/blog/install-jenkins-on-aws

```
ubuntu@ip-172-31-7-185:~$ sudo systemctl status jenkins

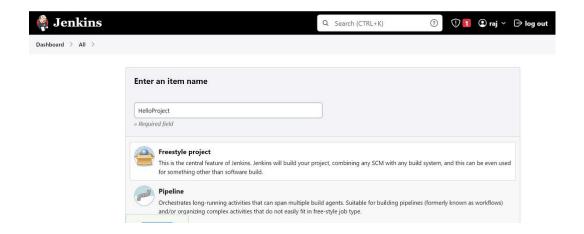
jenkins.service - Jenkins Continuous Integration Server
Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
Active: active (running) since Mon 2023-03-20 15:18:15 UTC; 32s ago
Main PID: 5534 (java)
Tasks: 43 (limit: 1143)
Memory: 314.4M
CPU: 43.316s
```

Step 3: Access Jenkins on the browser using the public IP of the EC2 instance and 8080 port.



Step 4: Create a new item in Jenkins using freestyle project type.

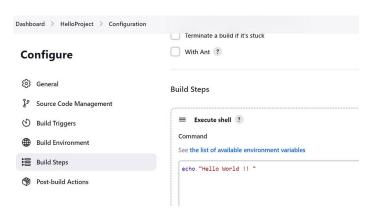
Step 5: Give a name to the Project "HelloProject"



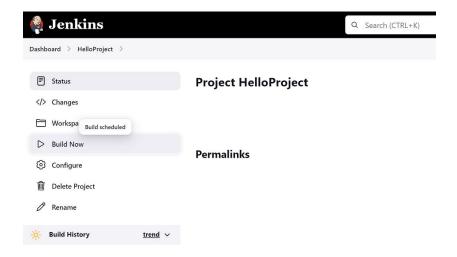
Step 6: In the configuration section, in the "Build" section, add an "Execute shell" build step.



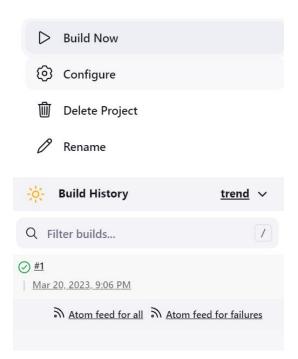
Step 7: Add the command to print "Hello World".



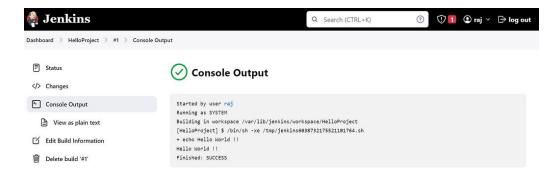
Step 8: "Save" it to create the project.



Step 9: Now click on the "Build Now" to run the project.



Step 10: Check the console output for "Hello World" message.



Please, feel free to drop any questions in the comments below. I would be happy to answer them.
If this post was helpful, please do follow and click the clap
_Thank you for reading
_Rajani