Jenkins Task

Task Description:

Launch jenkins and explore creating projects and users.

Techstacks needs to be used:

- AWS EC2
- Jenkins

Step1: Install Jenkins

- sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhatstable/jenkins.repo
- ♣ sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
- ↓ yum install fontconfig java-17-openjdk
- yum install Jenkins
- sudo systemctl start Jenkins



Step2: Retrieve admin password

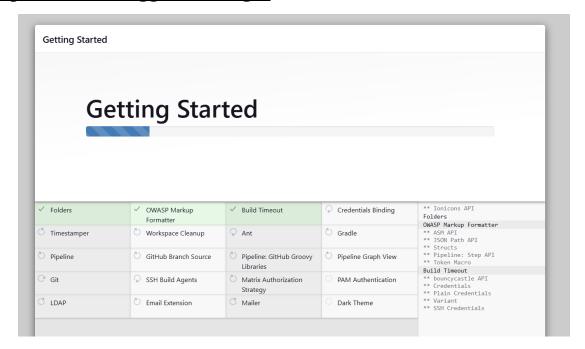
♣ sudo cat /var/lib/jenkins/secrets/initialAdminPassword

ec2-user@ip-172-31-40-36;~

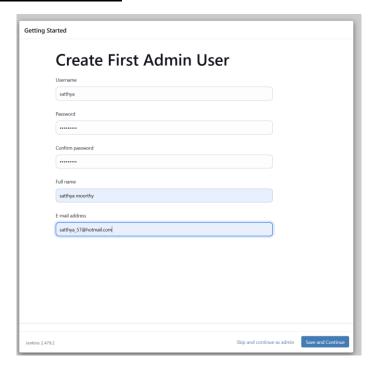
[ec2-user@ip-172-31-40-36 ~]\$ [ec2-user@ip-172-31-40-36 ~]\$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword 9412c198a7574699815f4cc6c0f2aed0 [ec2-user@ip-172-31-40-36 ~]\$



Step3: Install Suggested Plugin

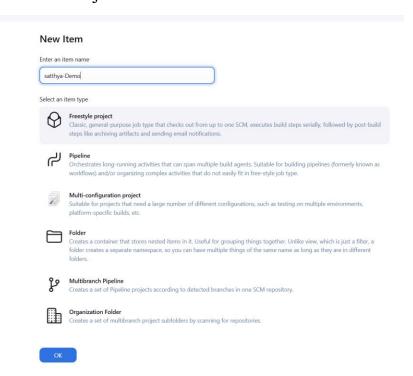


Step4: Create Admin User

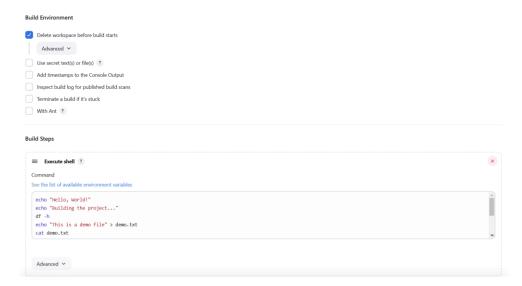


Step5: Create Jenkins Project

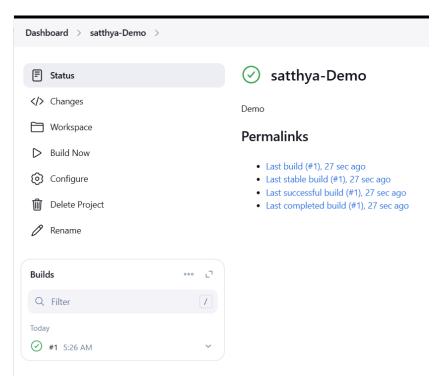
- Free Project
- ♣ New Item > Free Project



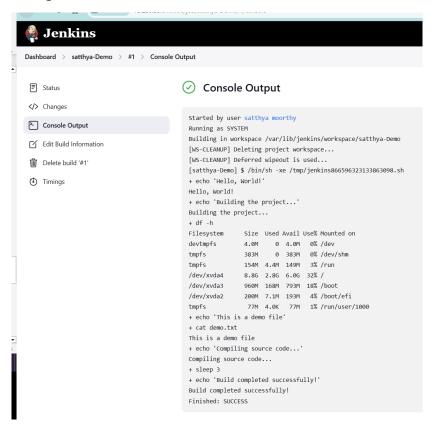
♣ Configure free style



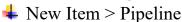
4 Build Now



♣ Console Output



Automating Jenkins Pipeline



New Item

Enter an item name

Automated-Pipeline

Select an item type



Freestyle project

Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.



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.

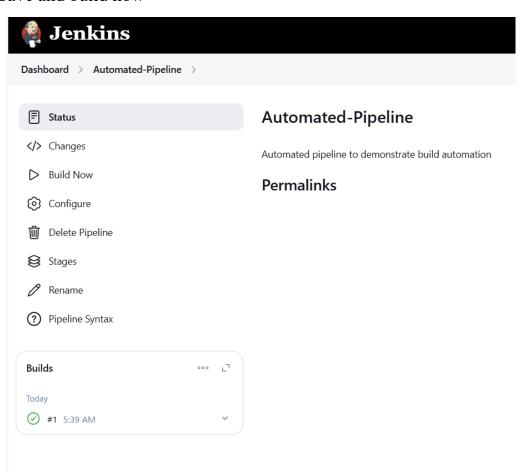


Multi-configuration project

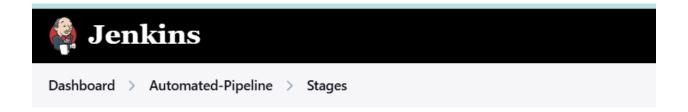
♣ Configure Pipeline Job



♣ Save and build now



- ♣ Go to the pipeline's page and view the execution under **Pipeline Steps**.
- ♣ Click on individual stages to see logs.



Build Automated-Pipeline

