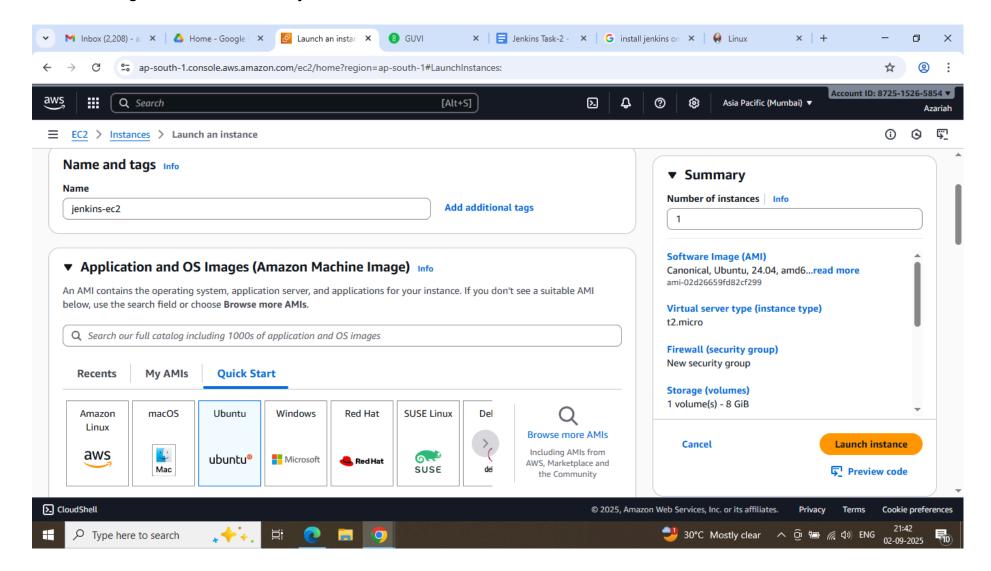
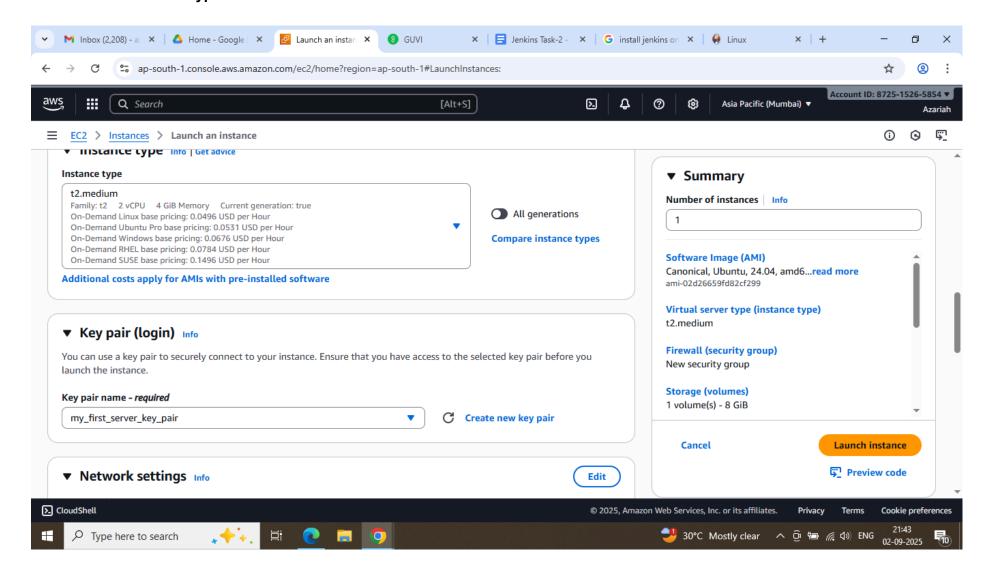
1. Creating EC2 server and install jenkins



2. Select Instance Type t2.medium



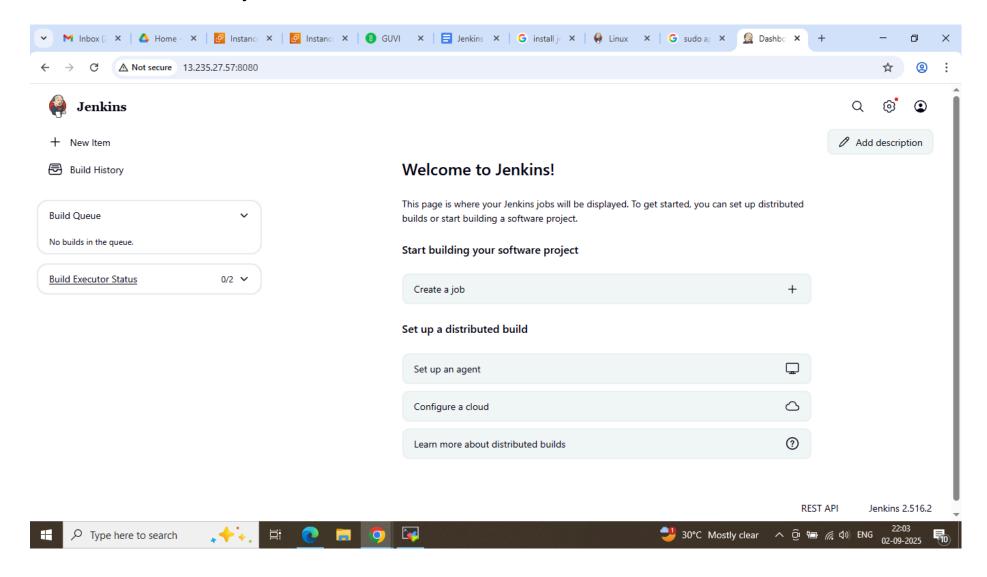
3. User commands to install jenkins

```
sudo apt update -y
sudo apt install fontconfig openjdk-21-jre -y
java -version
openjdk version "21.0.3" 2024-04-16
OpenJDK Runtime Environment (build 21.0.3+11-Debian-2)
OpenJDK 64-Bit Server VM (build 21.0.3+11-Debian-2, mixed mode, sharing)
```

sudo wget -O /etc/apt/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
echo "deb [signed-by=/etc/apt/keyrings/jenkins-keyring.asc]" \
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update -y
sudo apt-get install jenkins -y

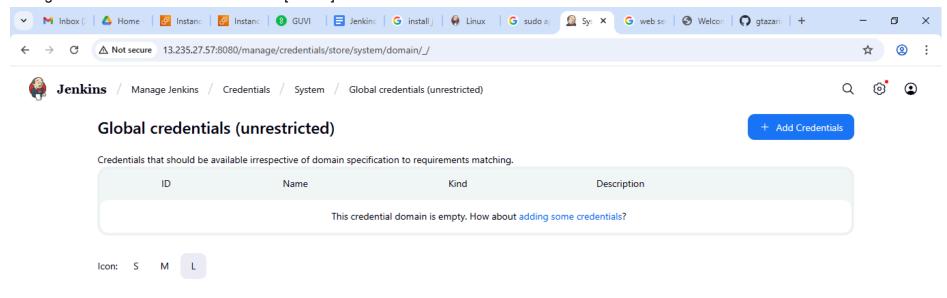
sudo systemctl enable jenkins sudo systemctl start jenkins sudo systemctl status jenkins

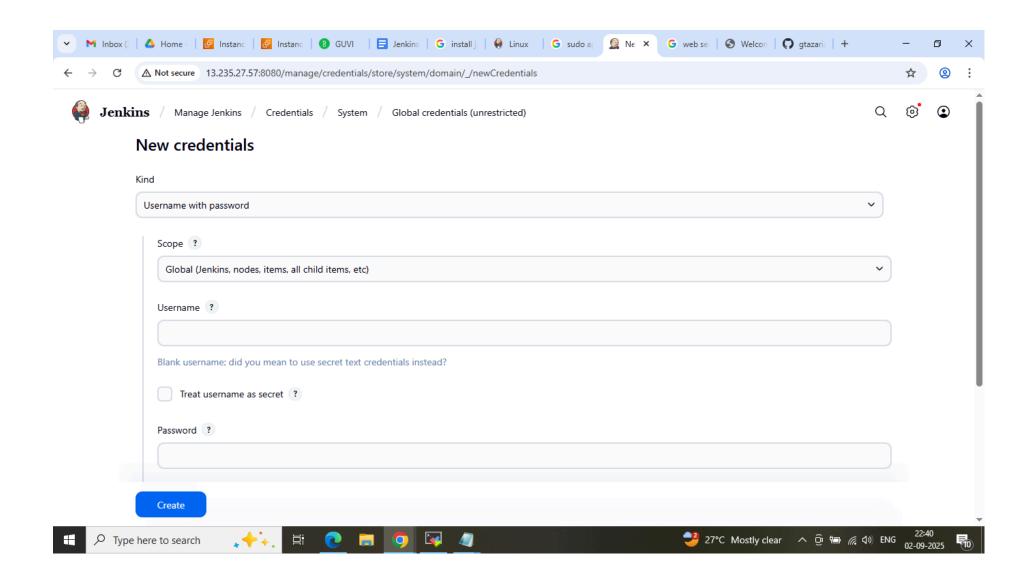
4. Jenkins installed successfully

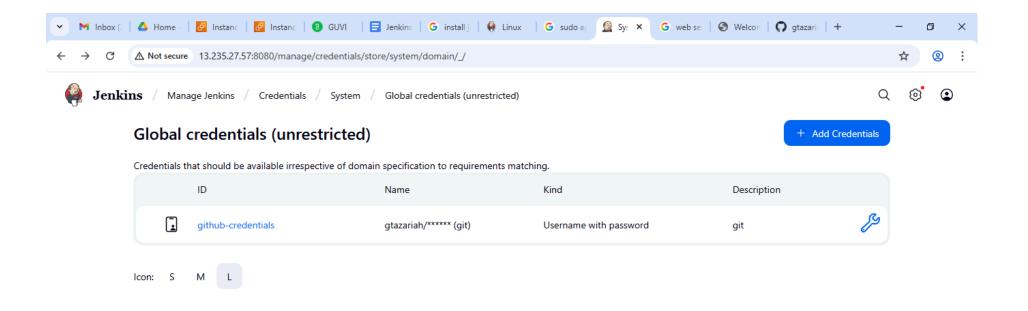


Installing python in EC2 server: commands: sudo apt update sudo apt install nginx python3 python3-pip Adding github credentials [personal access token]

Manage Jenkins > Credentials > Domains [Global] > Add Credentials



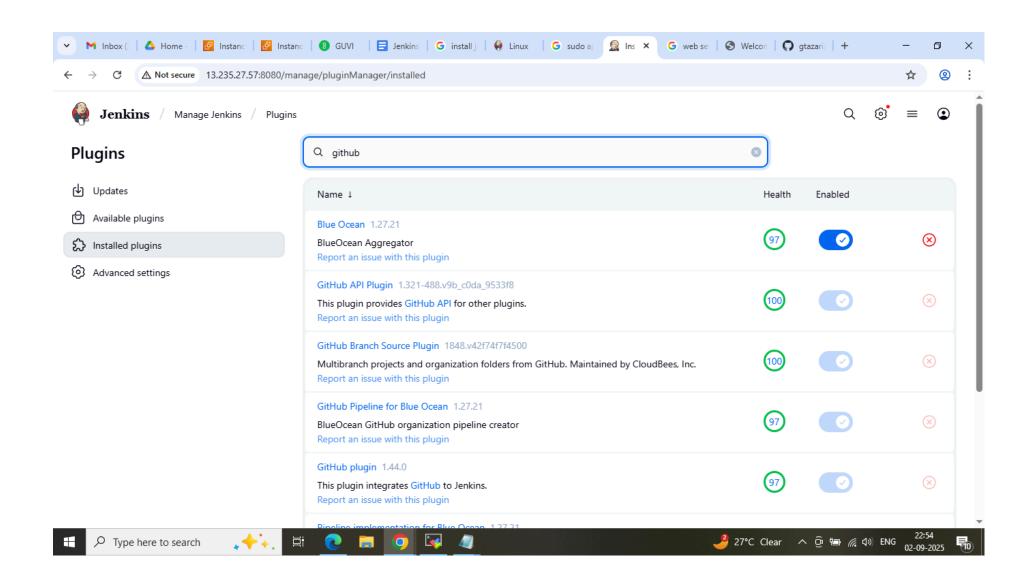




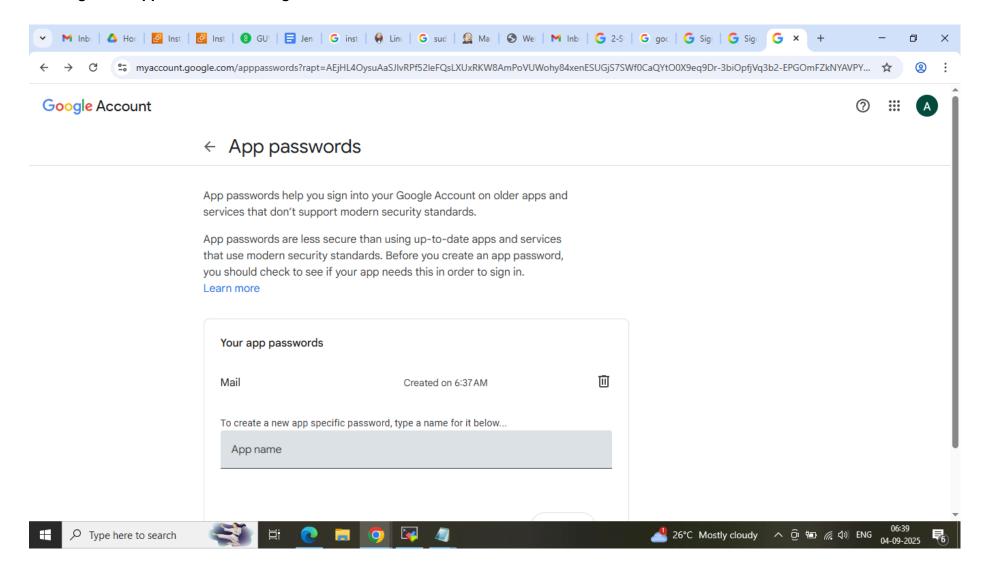
REST API Jenkins 2.516.2

Install plugins Manage Jenkins > Plugins

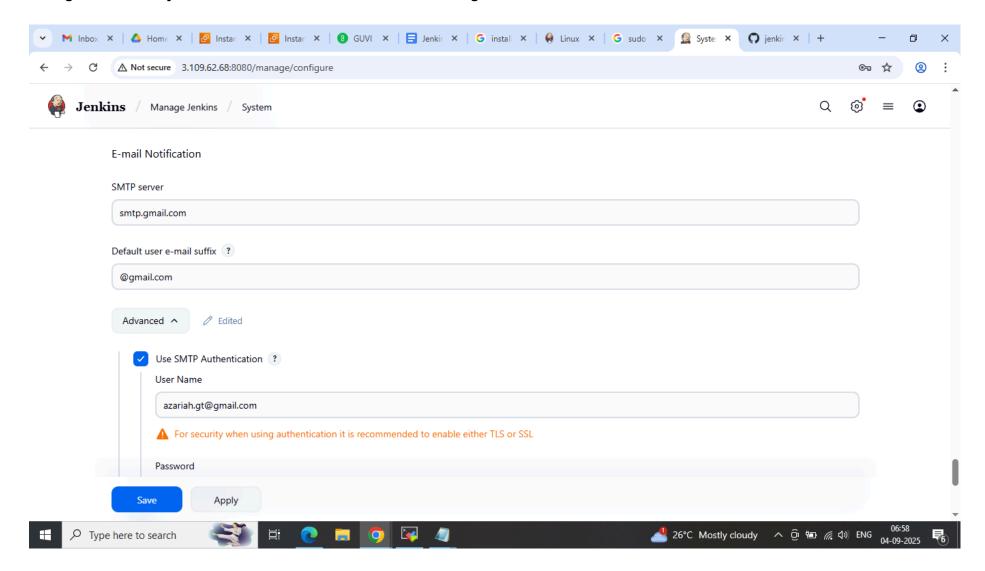
GitHub plugin
Email Extension Plugin
Mailer plugin
Pipeline stage view plugin
Blue ocean
Dashboard for Blue Ocean

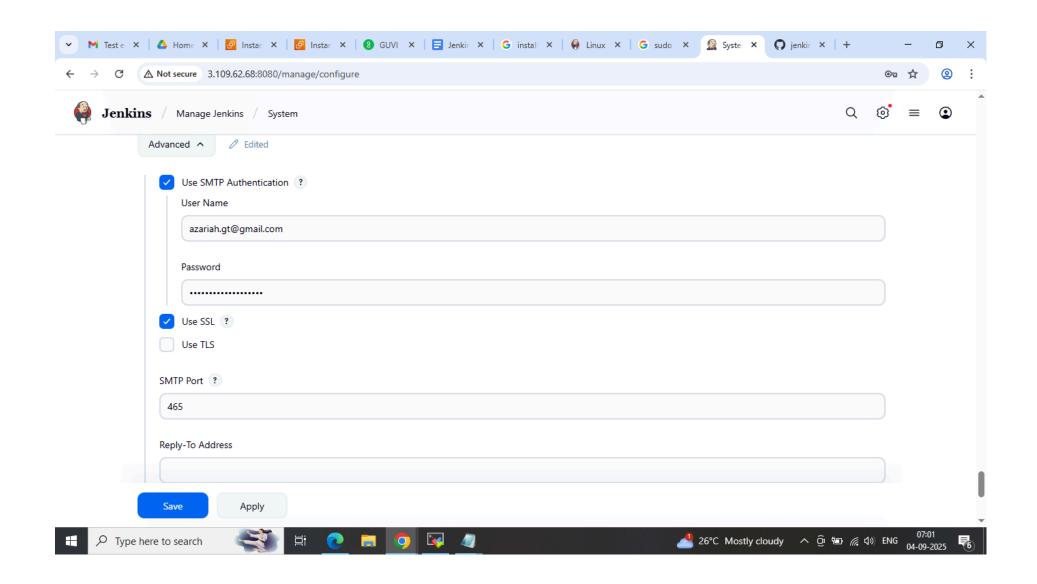


CreatingGmail App Password to integrate with Jenkins

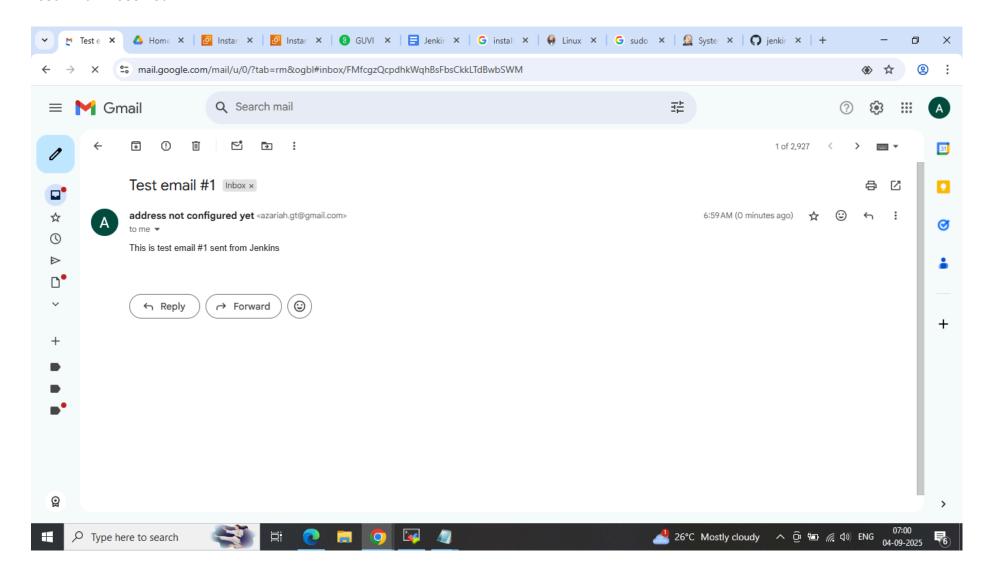


Manage Jenkins > System > Scroll to "Email Notification" setting



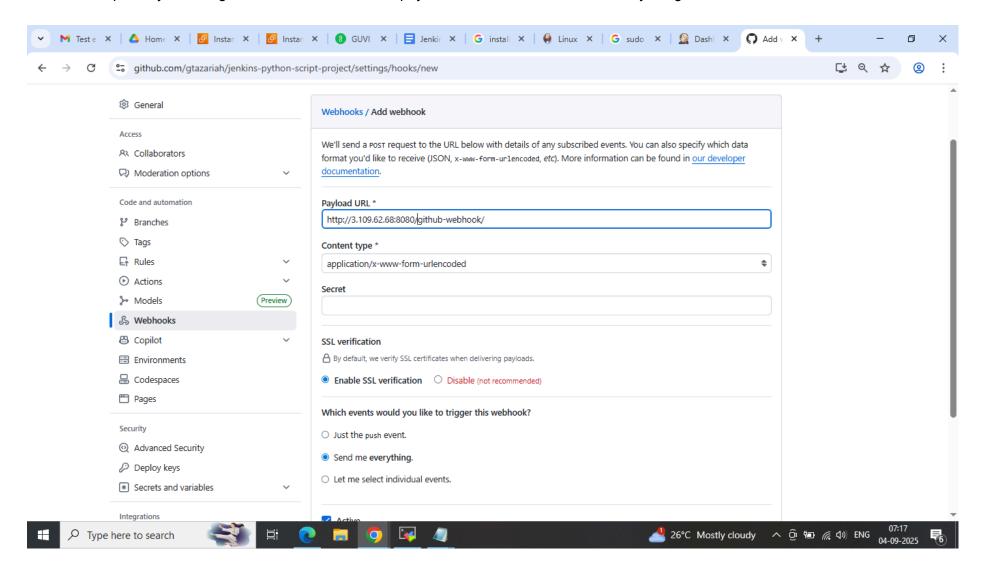


Test Email Received

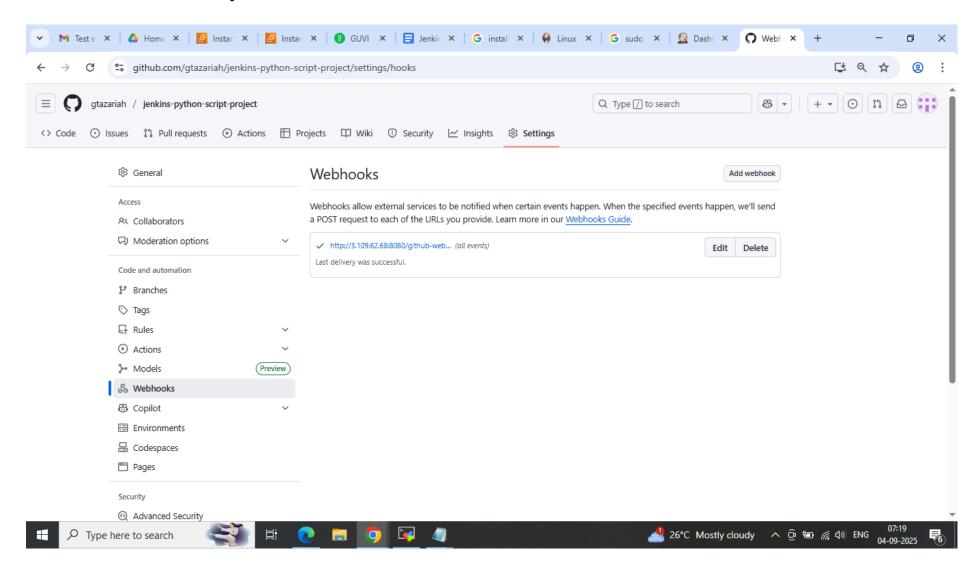


Setting up Webhook in Github Account

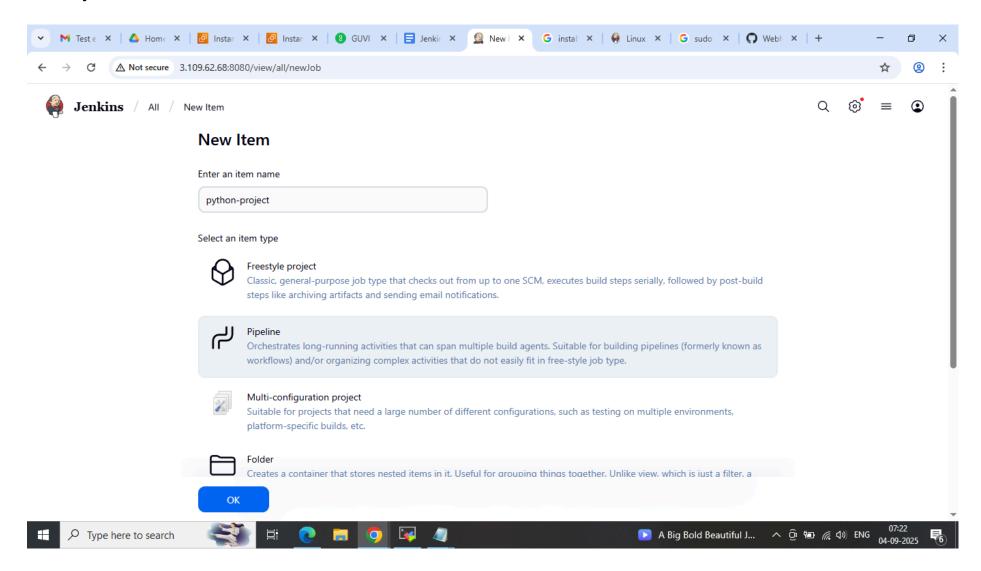
Select the Repository > Settings > Webhooks > Enter the pay load URL > Select send me every thing



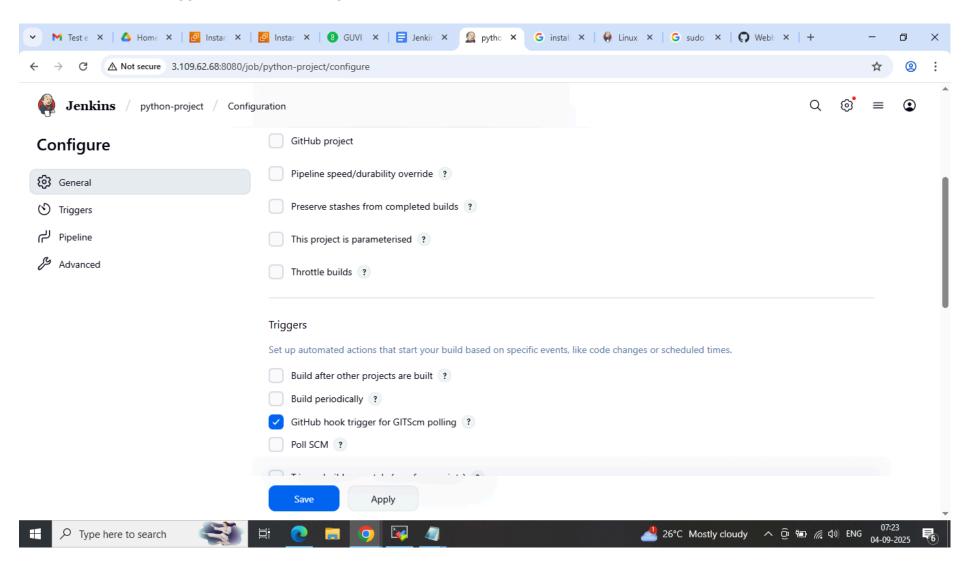
Webhook created successfully



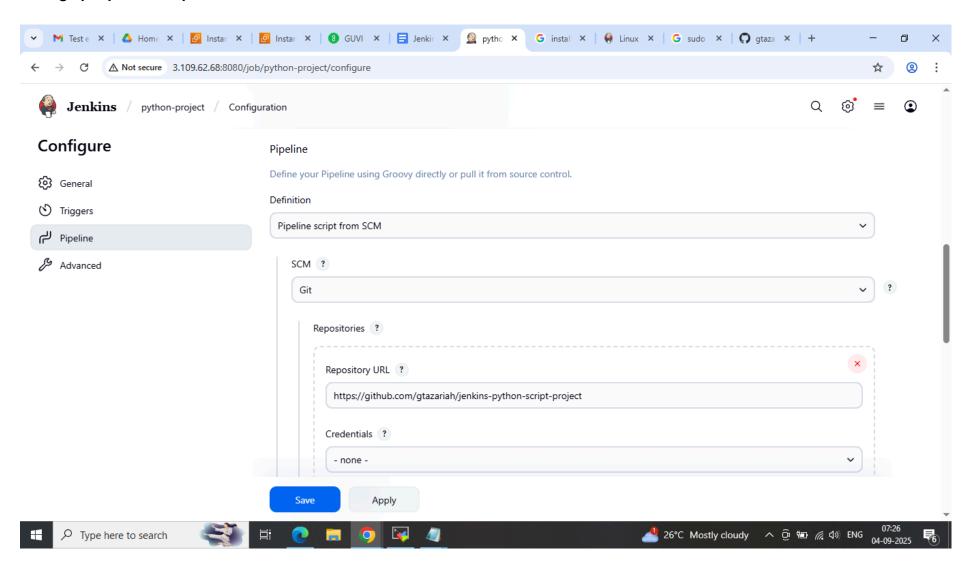
Jenkins job creation

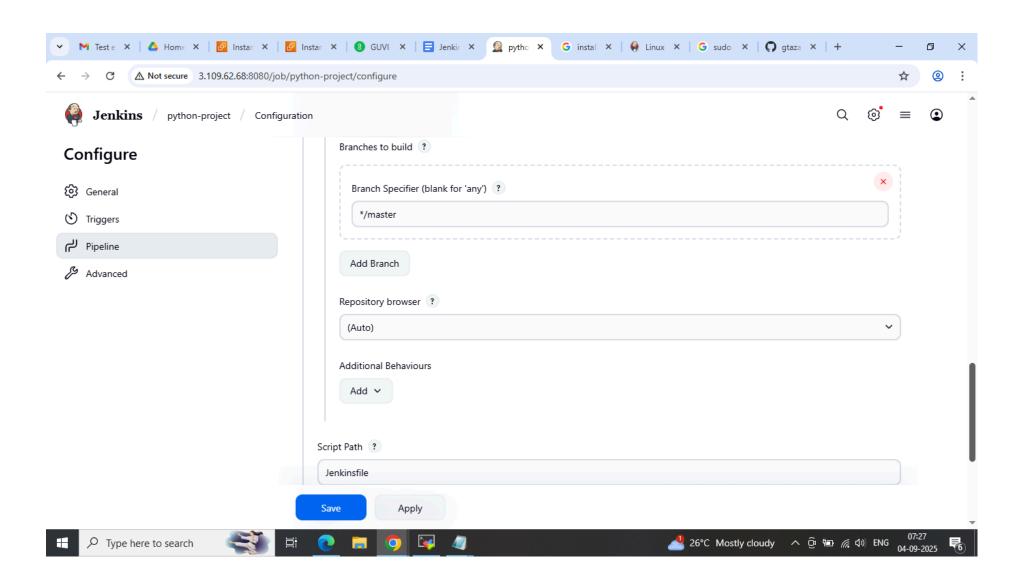


Select "Github hook trigger for GITScm polling"

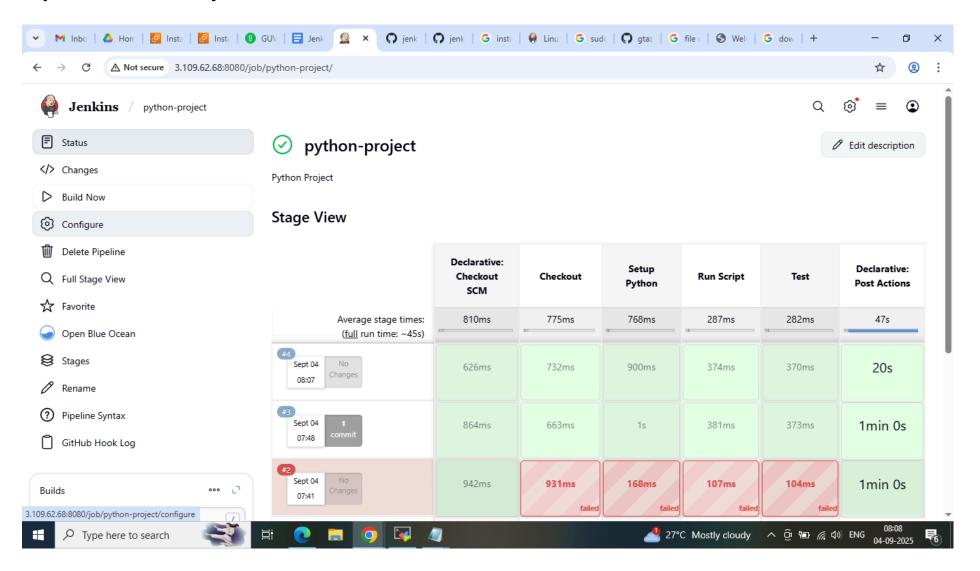


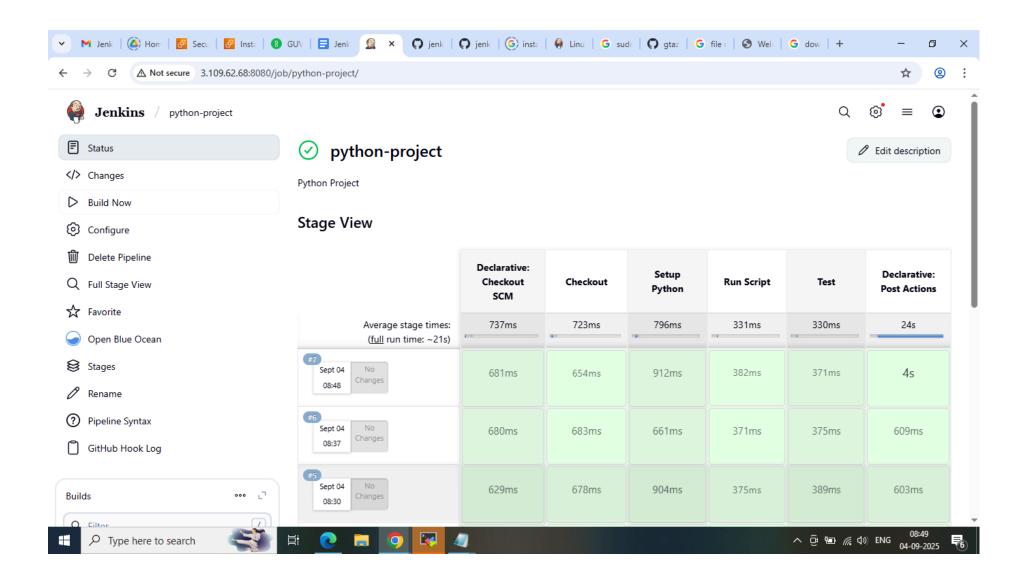
Setting up Pipeline Script



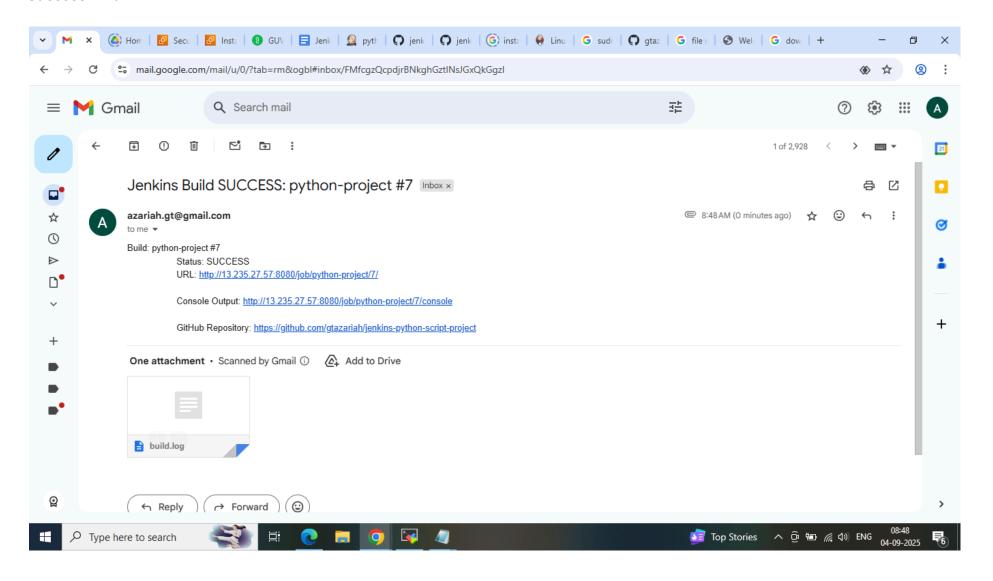


Project Job run successfully





Success Email



Auto Trigger

