kura labs

Deployment #1

Welcome to Deployment 1!! This deployment will walk you through setting up your pipeline. Take notes of each main step of the pipeline. Observe all the tools being used in the pipeline. There will be more in future deployments!!

Install Jenkins on an EC2:

- First create an Ubuntu EC2
- The EC2 will need port 80, 8080, and 22 open
- Once you've created the EC2, log into the EC2 and then enter the commands below to install Jenkins:

```
$sudo apt update && sudo apt install default-jre

$wget -q -O -
https://pkg.jenkins.io/debian-stable/jenkins.io.
key |sudo gpg --dearmor -o
/usr/share/keyrings/jenkins.gpg

$sudo sh -c 'echo deb
[signed-by=/usr/share/keyrings/jenkins.gpg]
http://pkg.jenkins.io/debian-stable binary/ >
```

```
/etc/apt/sources.list.d/jenkins.list'

$sudo apt update && sudo apt install jenkins -y

$sudo systemctl start jenkins

$sudo systemctl status jenkins
```

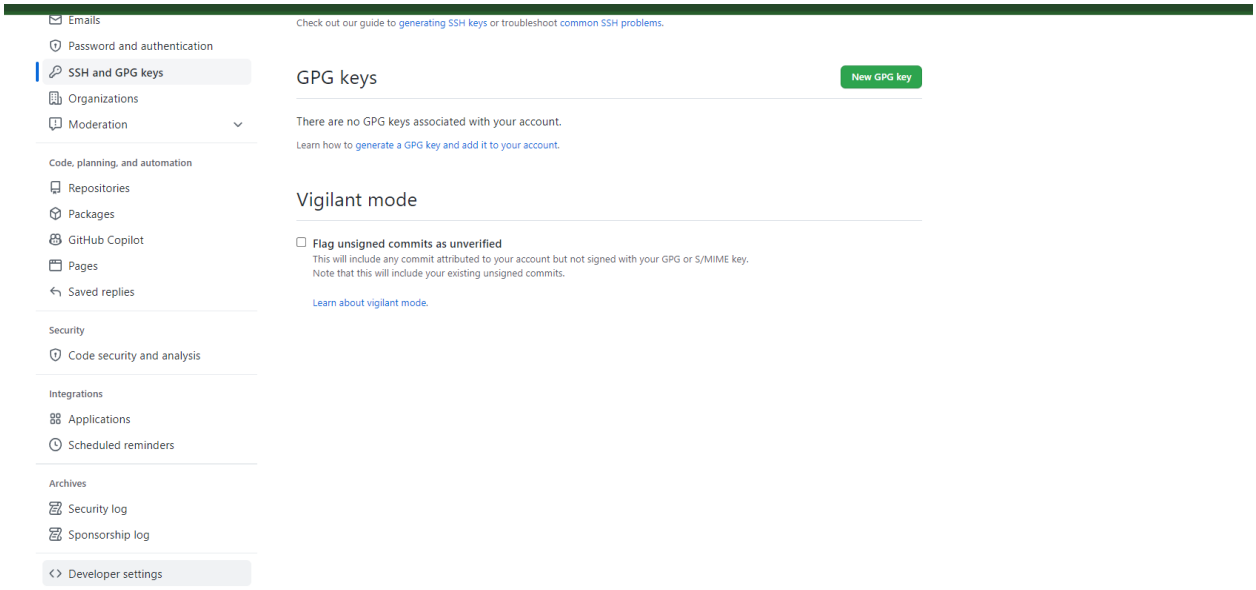
- Follow instructions via link below to setup Jenkins: https://www.jenkins.io/doc/tutorials/tutorial-for-installing-jenkins-on-AWS/

Install Virtual Environment:

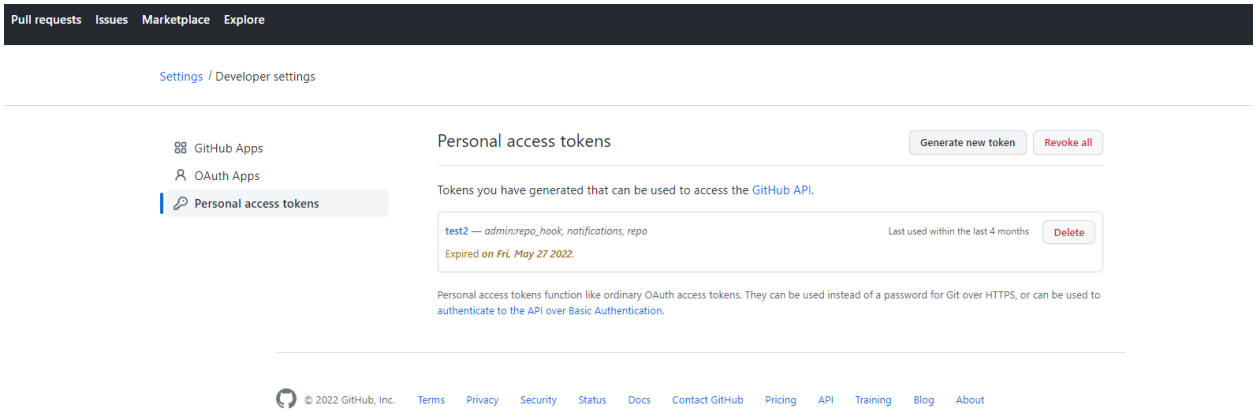
- Remote into the EC2 and install the two packages via the apt command:
  - python3-pip
  - python3-10-venv

Connect GitHub to Jenkins Server:

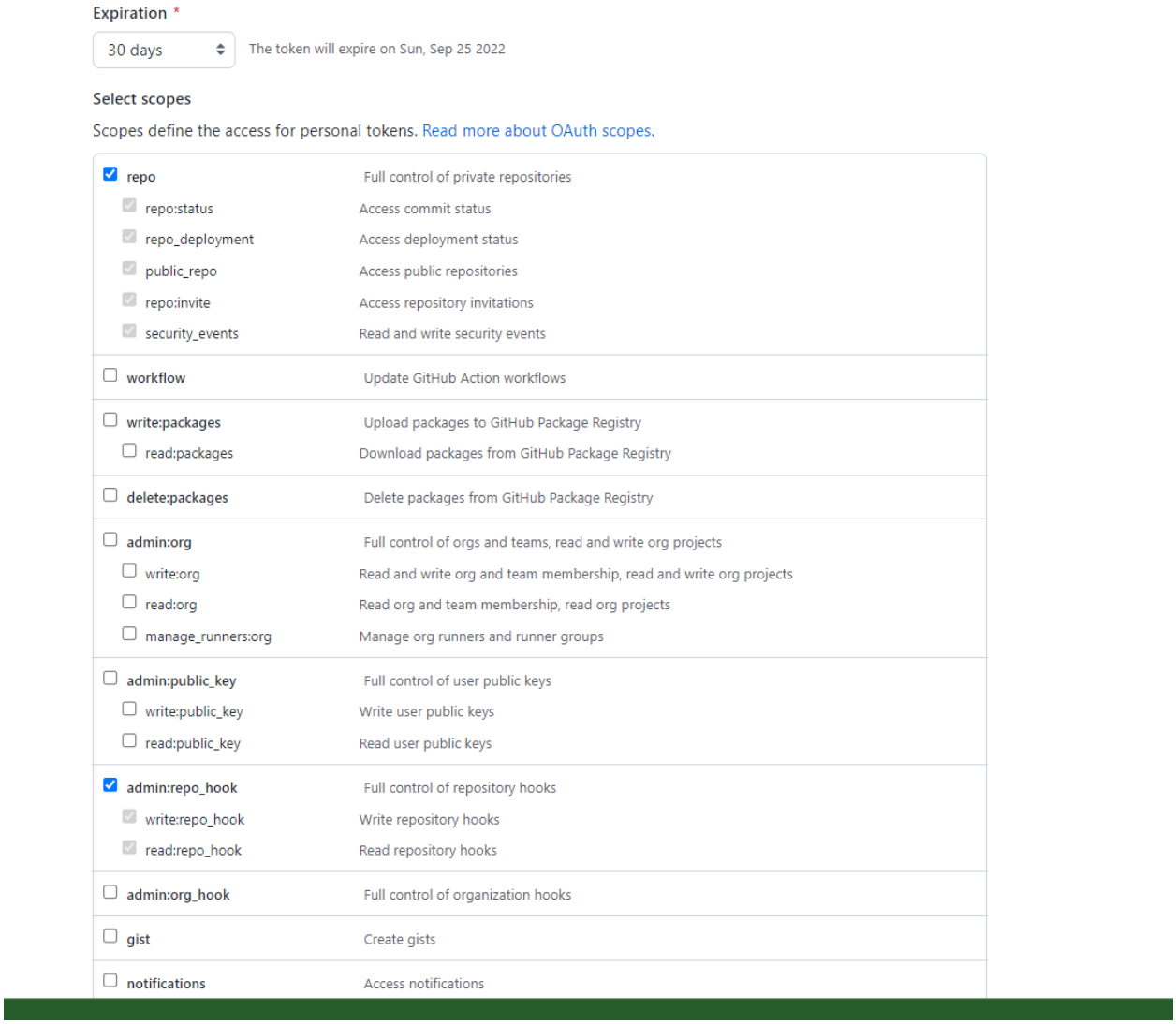
- First Fork the Deployment repo: https://github.com/kura-labs-org/kuralabs_deployment_1.git
- Next, create an access token from GitHub:
  - Navigate to your GitHub settings, select developer settings



- Select personal access token and create a new token.



- Select the settings you see below for access token permissions.



Review and document what you observed while setting up this deployment:

Diagram the pipeline:

What could you improve: