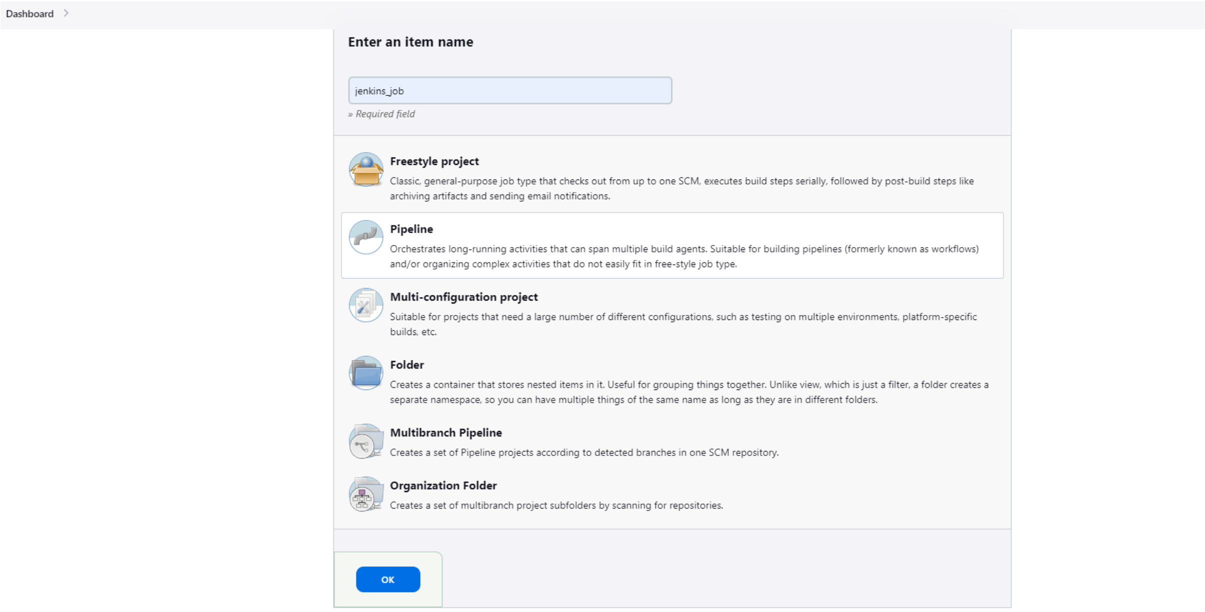
Task – 11

Creating a Simple pipeline project in Jenkins:



Enter an item name

jenkins_job

» Required field

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.

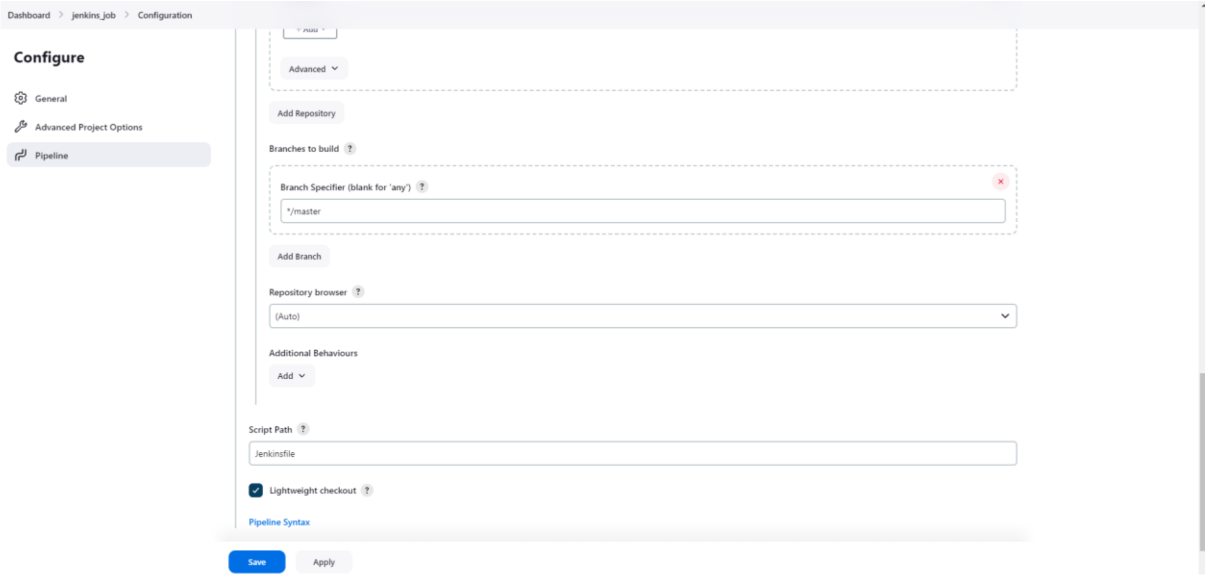
Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

Multibranch Pipeline
Creates a set of Pipeline projects according to detected branches in one SCM repository.

Organization Folder
Creates a set of multibranch project subfolders by scanning for repositories.



Branches to build

Branch Specifier (blank for 'any')

*/master

Repository browser

(Auto)

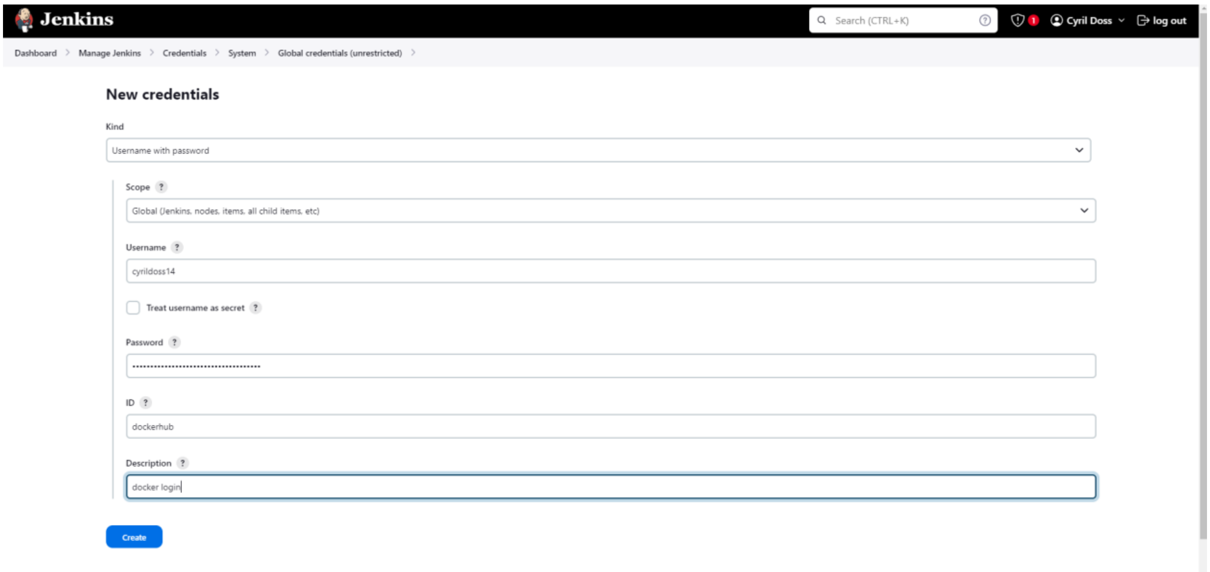
Additional Behaviours

Script Path

Jenkinsfile

☑ Lightweight checkout

Setting up Environmental Variable:



Jenkins
Search (CTRL+K)
Cyril Doss
log out
Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

New credentials

Kind: Username with password

Scope: Global (Jenkins, nodes, items, all child items, etc)

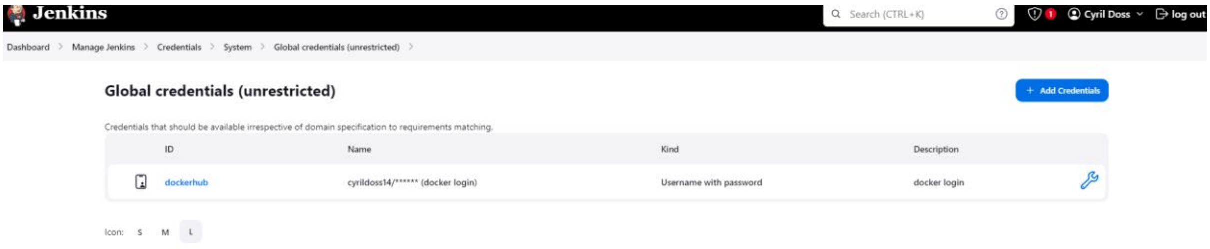
Username: cyrildoss14

□ Treat username as secret

Password: ••••••••••••••••••••••••••••••••••••

ID: dockerhub

Description: docker login

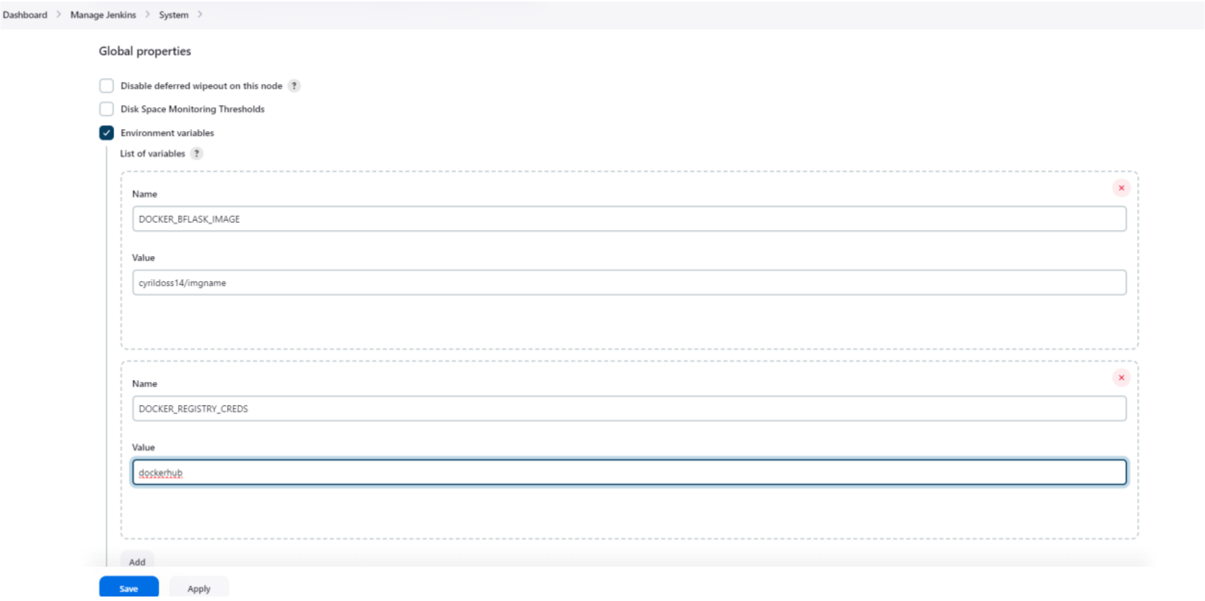


Jenkins
Search (CTRL+K)
Cyril Doss
log out
Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >
+ Add Credentials

Global credentials (unrestricted)

Credentials that should be available irrespective of domain specification to requirements matching.

ID	Name	Kind	Description
dockerhub	cyrildoss14/****** (docker login)	Username with password	docker login



Global properties

□ Disable deferred wipeout on this node

□ Disk Space Monitoring Thresholds

☑ Environment variables

List of variables

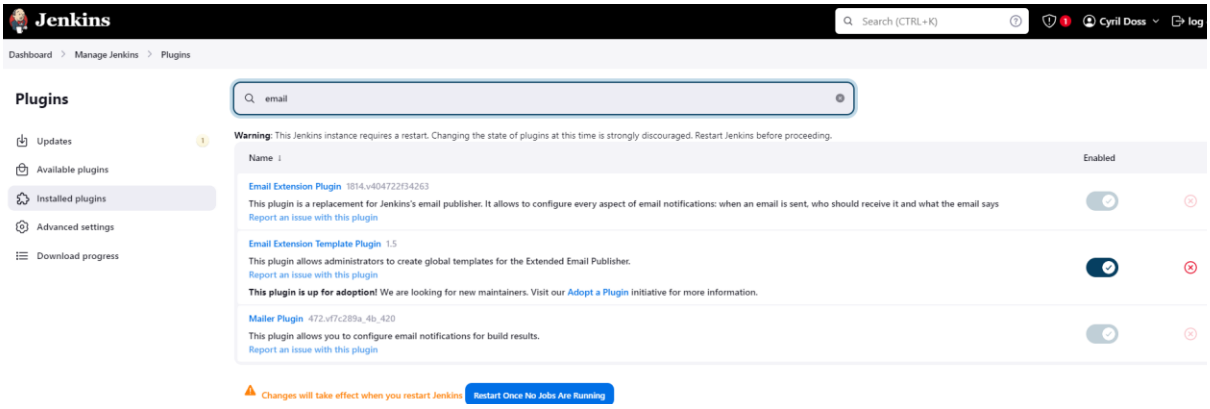
Name: DOCKER_BFLASK_IMAGE

Value: cyrildoss14/imgname

Name: DOCKER_REGISTRY_CREDS

Value: dockerhub

Setting up Email Notification:



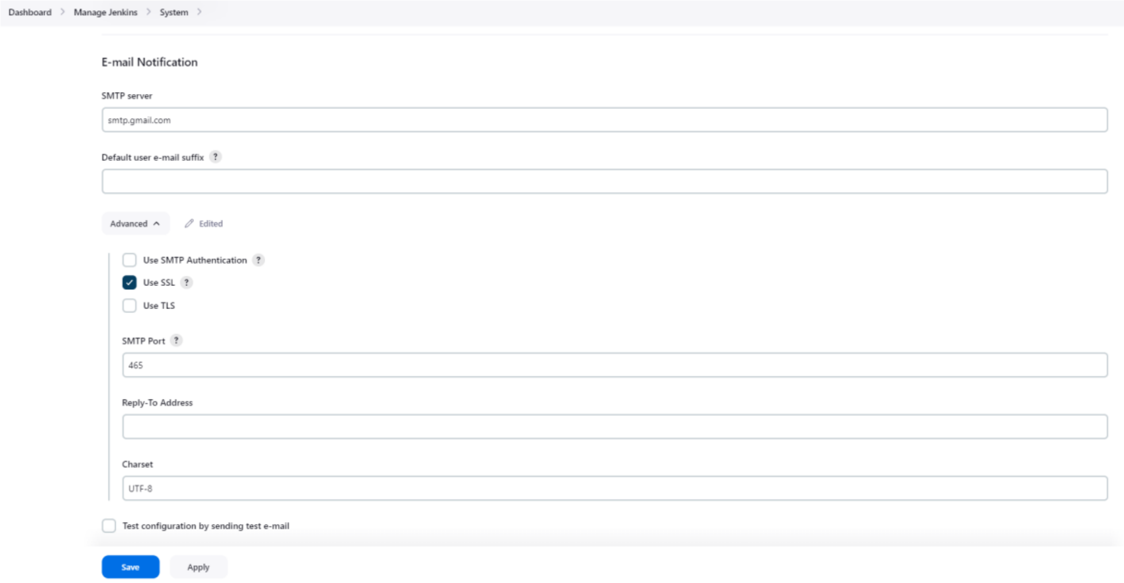
email

Warning: This Jenkins instance requires a restart. Changing the state of plugins at this time is strongly discouraged. Restart Jenkins before proceeding.

Name ↓	Enabled	
Email Extension Plugin 1814.v404722f34263 This plugin is a replacement for Jenkins's email publisher. It allows to configure every aspect of email notifications: when an email is sent, who should receive it and what the email says Report an issue with this plugin	✓	⊗
Email Extension Template Plugin 1.5 This plugin allows administrators to create global templates for the Extended Email Publisher. Report an issue with this plugin **This plugin is up for adoption!** We are looking for new maintainers. Visit our Adopt a Plugin initiative for more information.	✓	⊗
Mailer Plugin 472.vf7c289a_4b_420 This plugin allows you to configure email notifications for build results. Report an issue with this plugin	✓	⊗

⚠ Changes will take effect when you restart Jenkins

Restart Once No Jobs Are Running


Dashboard > Manage Jenkins > System >

E-mail Notification

SMTP server: smtp.gmail.com

Default user e-mail suffix ?:

Advanced ^ Edited

□ Use SMTP Authentication ?

☑ Use SSL ?

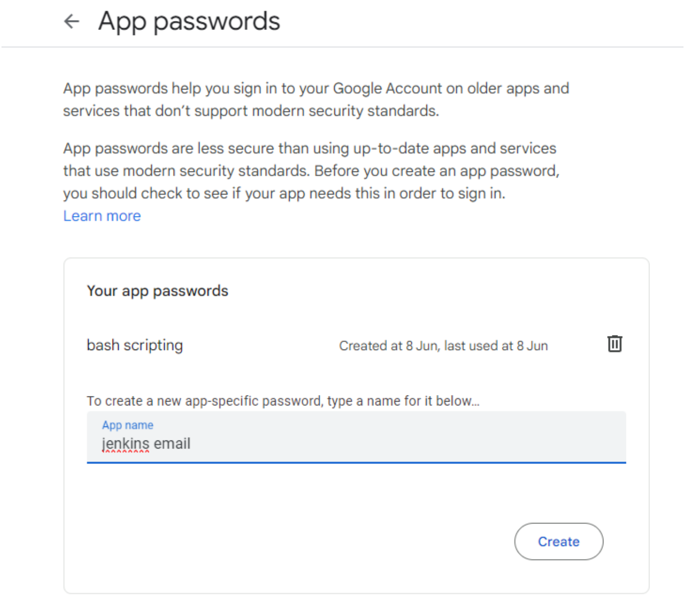
□ Use TLS

SMTP Port ?: 465

Reply-To Address:

Charset: UTF-8

□ Test configuration by sending test e-mail



App passwords

App passwords help you sign in to your Google Account on older apps and services that don't support modern security standards.

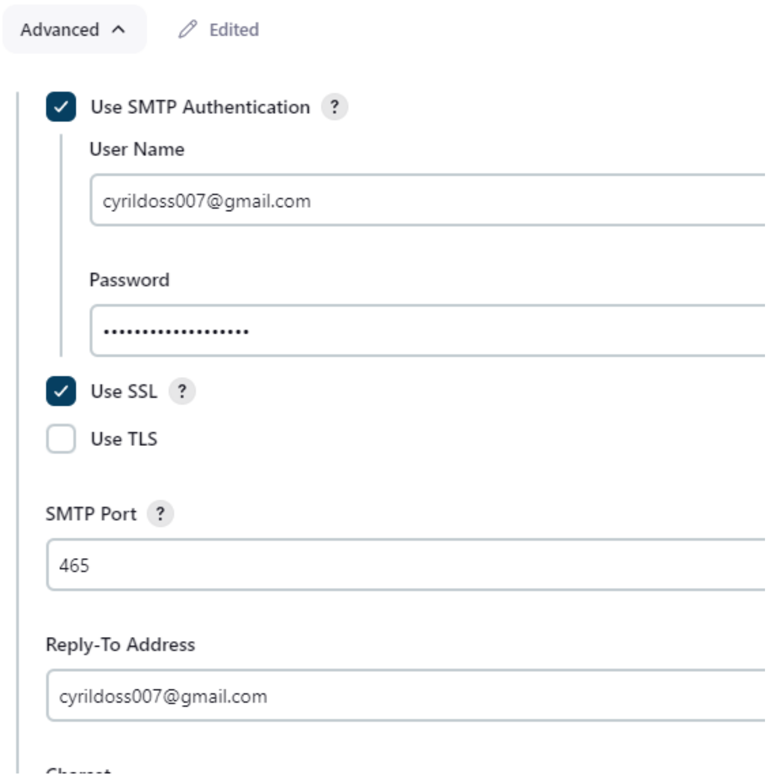
App passwords are less secure than using up-to-date apps and services that use modern security standards. Before you create an app password, you should check to see if your app needs this in order to sign in.
Learn more

Your app passwords

bash scripting — Created at 8 Jun, last used at 8 Jun

To create a new app-specific password, type a name for it below...

App name: jenkins email



☑ Use SMTP Authentication ?

User Name: cyrildoss007@gmail.com

Password: ••••••••••••••••••••

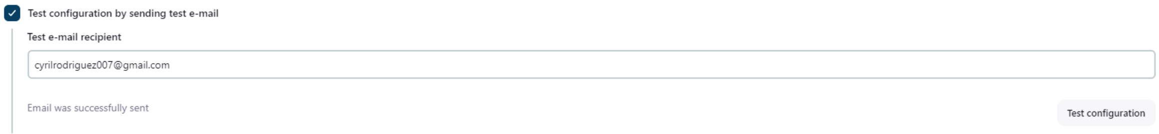
☑ Use SSL ?

□ Use TLS

SMTP Port ?: 465

Reply-To Address: cyrildoss007@gmail.com

Charset

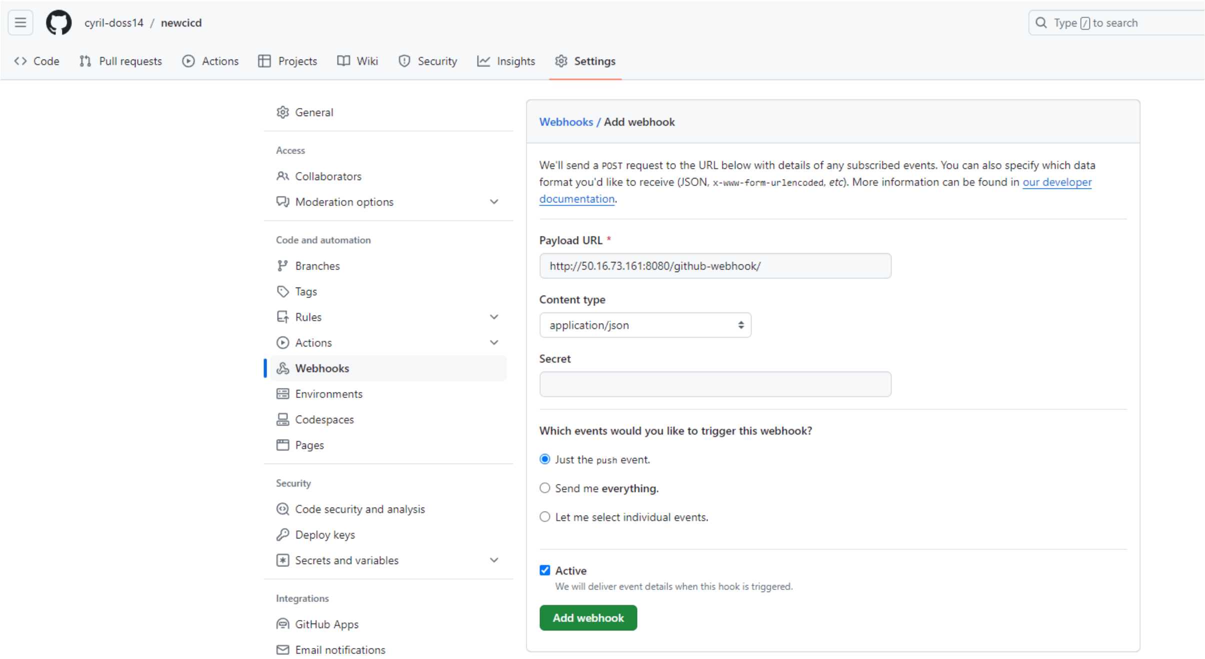


☑ Test configuration by sending test e-mail

Test e-mail recipient: cyrilrodriguez007@gmail.com

Email was successfully sent

Webhook Configuration:



Webhooks / Add webhook

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, *etc*). More information can be found in our developer documentation.

Payload URL *

http://50.16.73.161:8080/github-webhook/

Content type

application/json

Secret

Which events would you like to trigger this webhook?

● Just the push event.

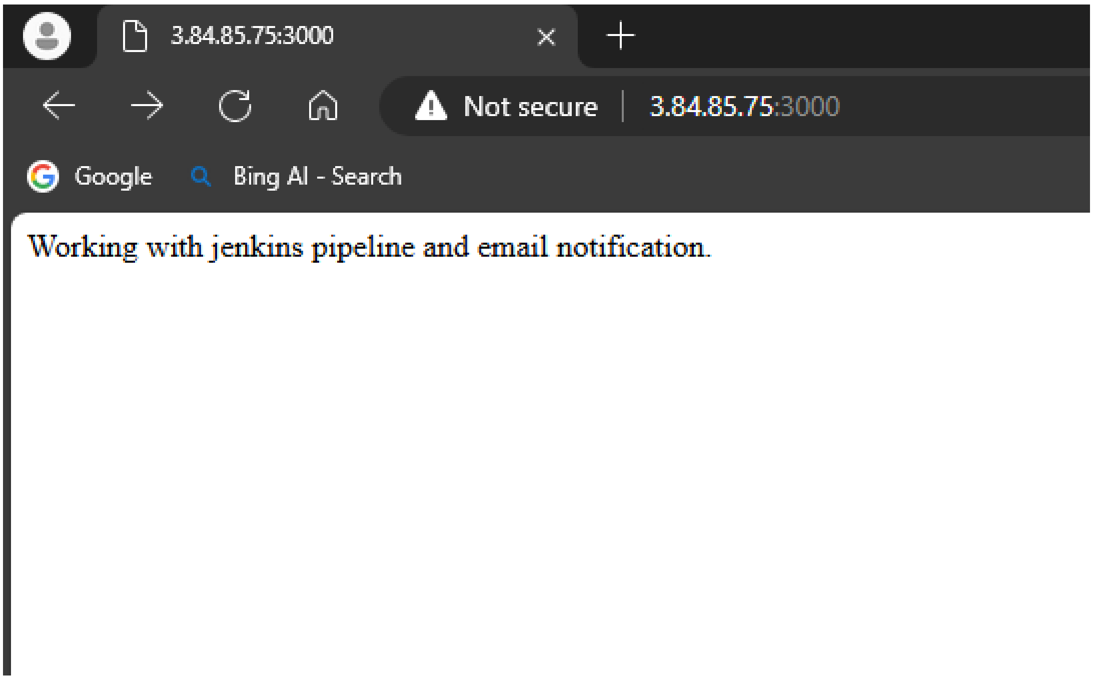
○ Send me **everything.**

○ Let me select individual events.

☑ Active

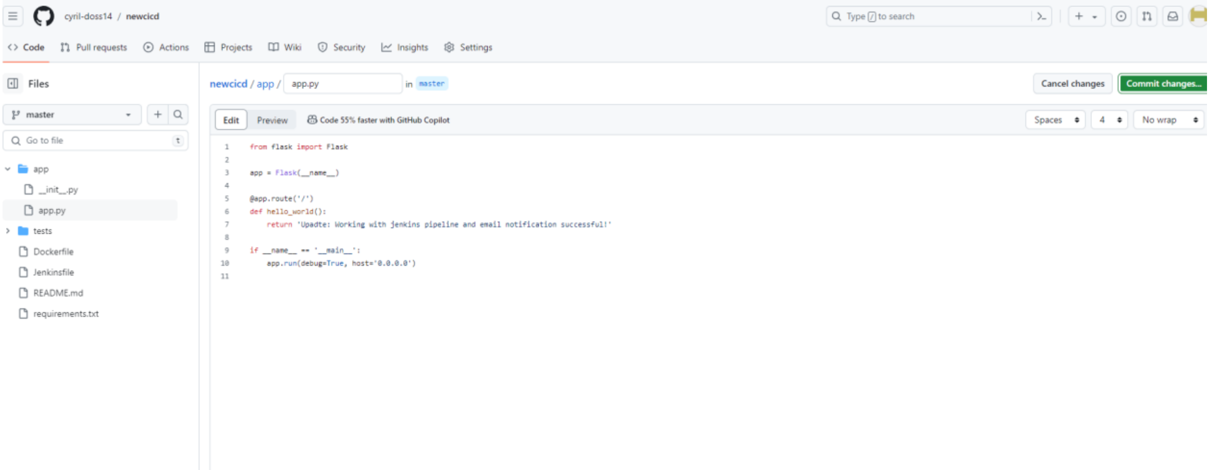
We will deliver event details when this hook is triggered.

Output of original project:

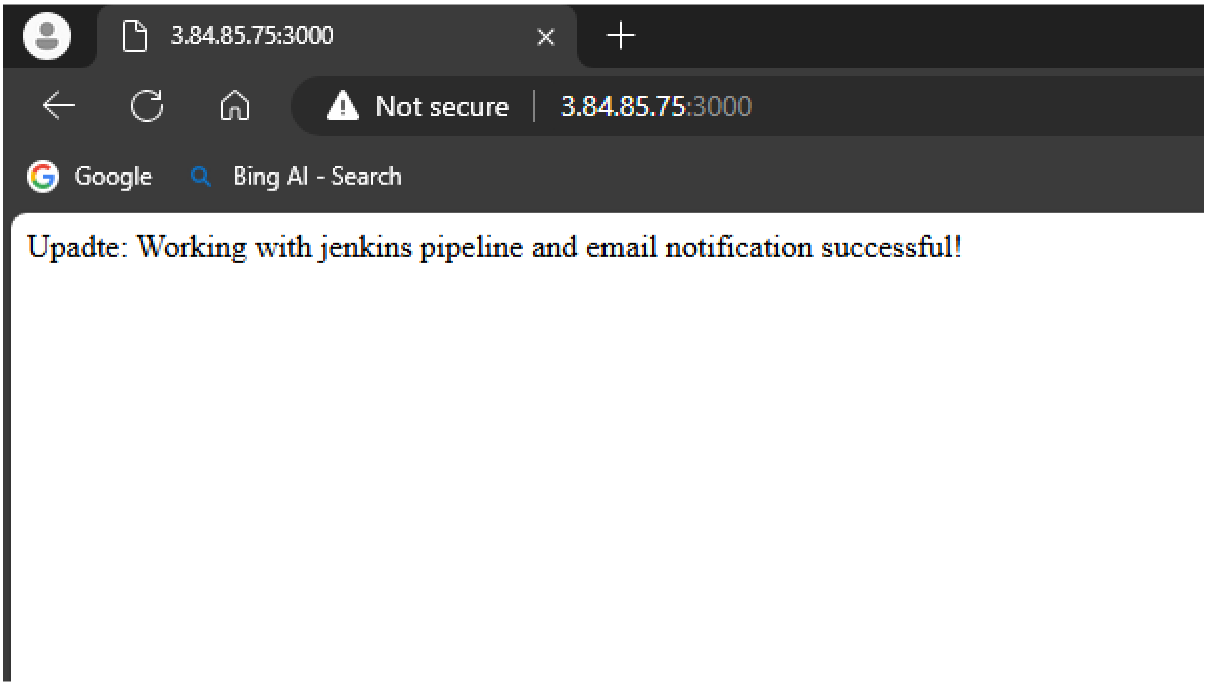


Working with jenkins pipeline and email notification.

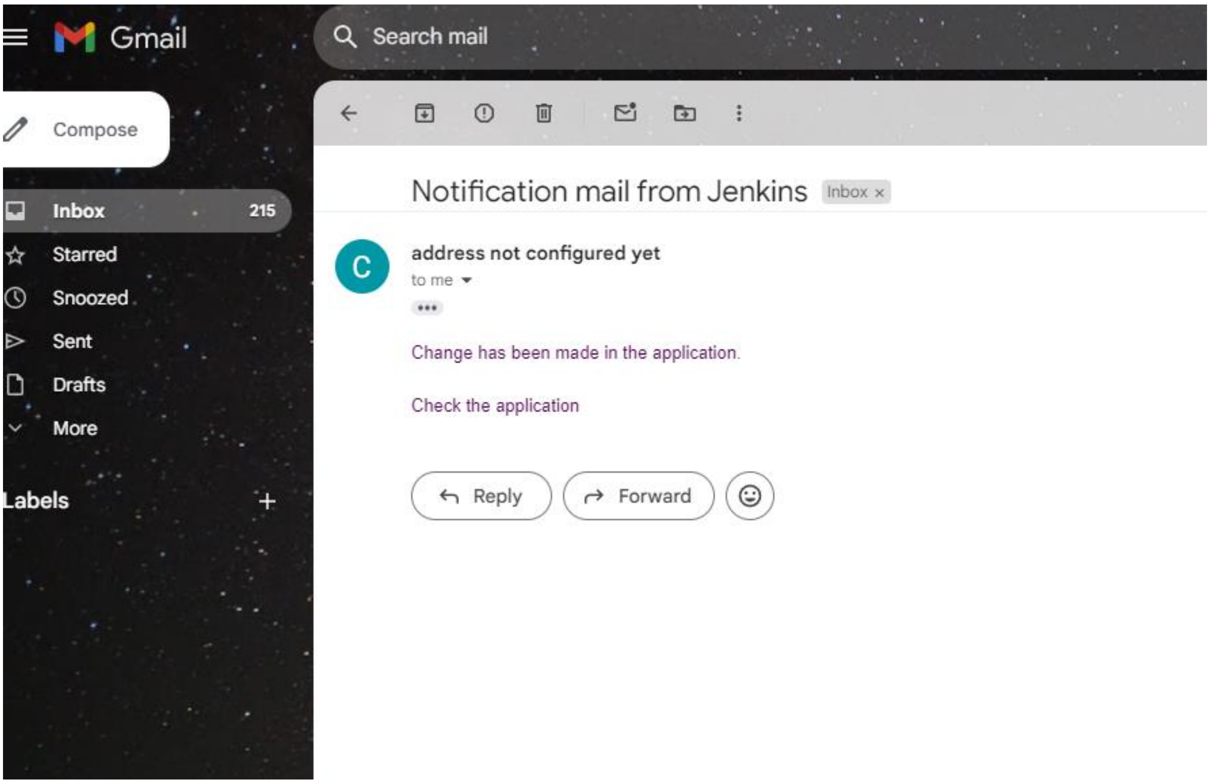
Change in output when a commit is made:



```
from flask import Flask

app = Flask(__name__)

@app.route('/')
def hello_world():
    return 'Upadte: Working with jenkins pipeline and email notification successful!'

if __name__ == '__main__':
    app.run(debug=True, host='0.0.0.0')

```



Upadte: Working with jenkins pipeline and email notification successful!



Notification mail from Jenkins

address not configured yet

to me

Change has been made in the application.

Check the application