

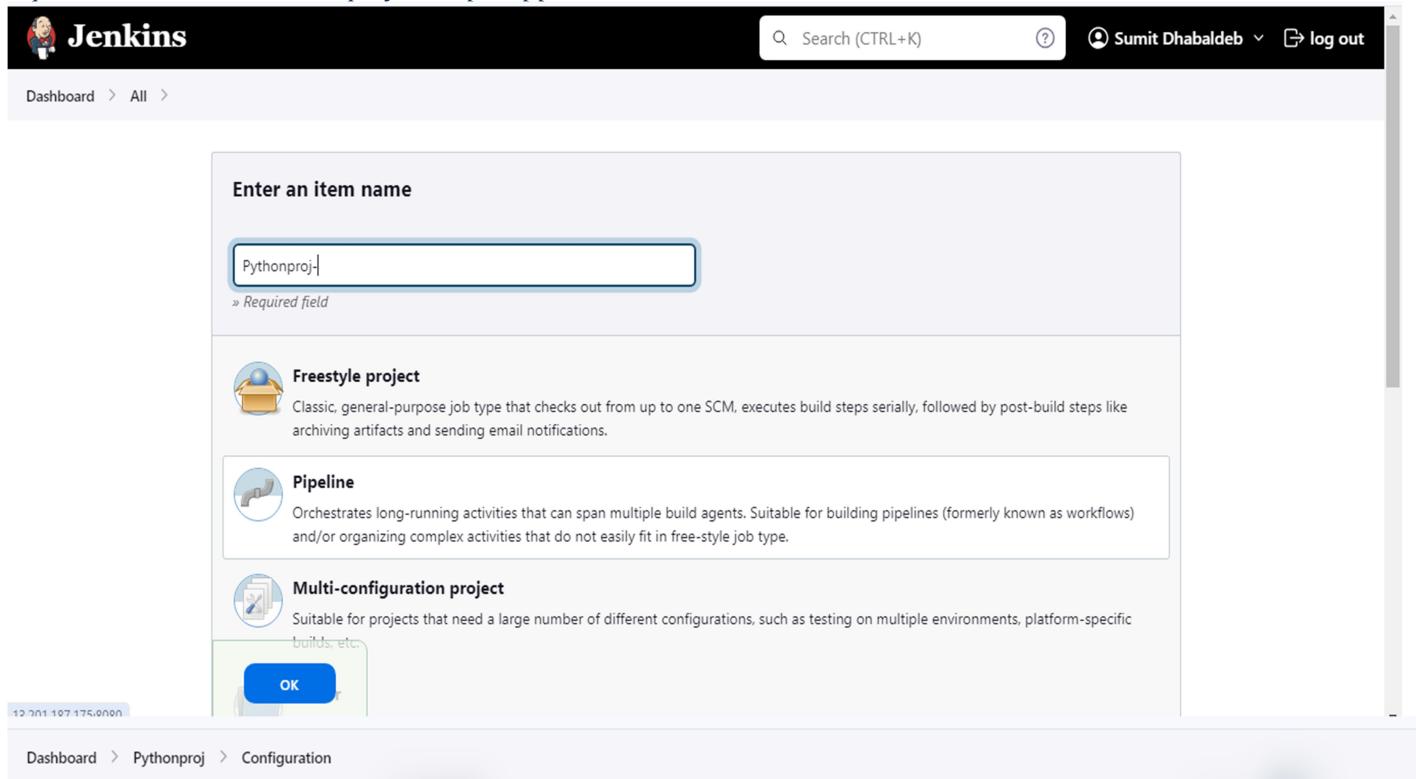
CI/CD PIPELINE JENKINS

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Course :- DevOps , ID - CT6WDS1258

TASK: set up a continuous integration/continuous deployment(CICD) pipeline using Jenkins to automate the build, test, and deployment processes, Install and configure Jenkins. Create a Jenkins Pipeline to build, test, and deploy a simple application



Dashboard > All >

Enter an item name

Pythonproj

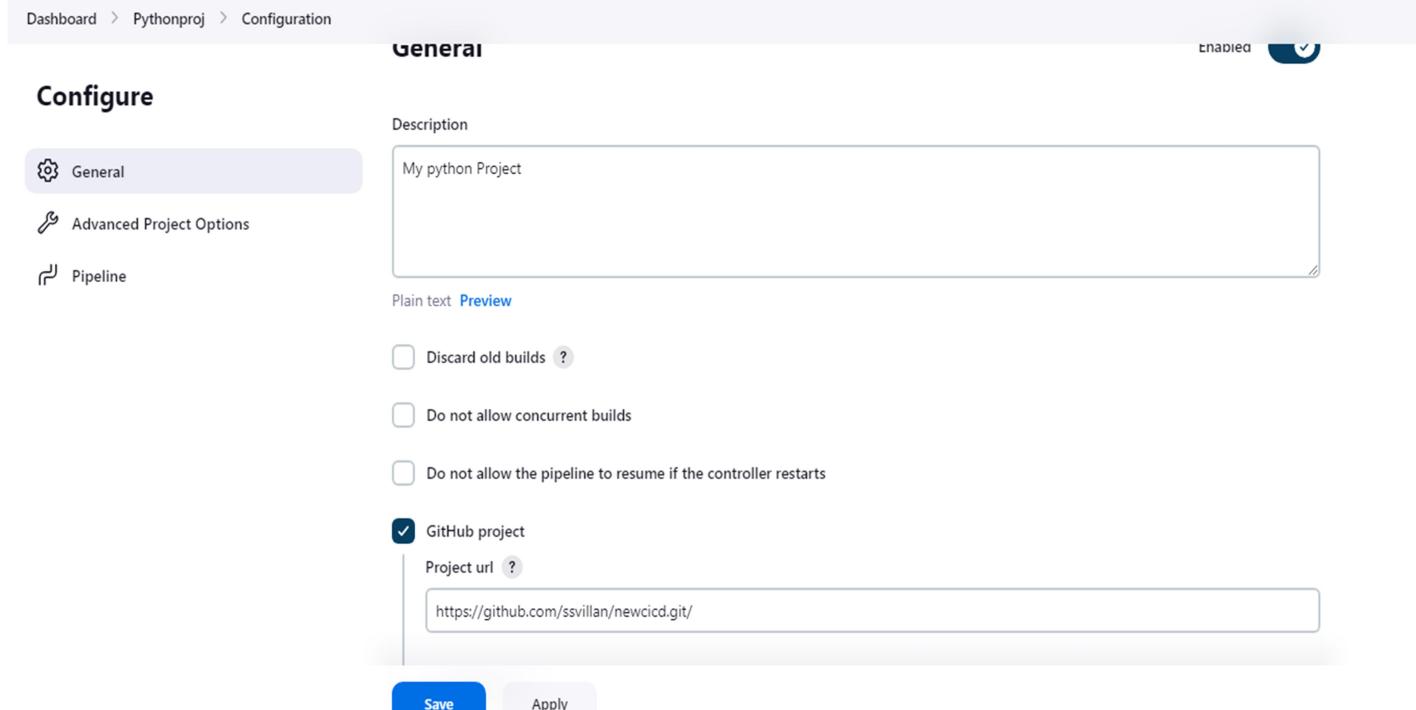
» Required field

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.

OK



Dashboard > Pythonproj > Configuration

General

Enabled

Configure

General

Advanced Project Options

Pipeline

Description

My python Project

Plain text [Preview](#)

Discard old builds ?

Do not allow concurrent builds

Do not allow the pipeline to resume if the controller restarts

GitHub project

Project url ?

https://github.com/ssvillan/newcicd.git/

Save Apply

The screenshot shows a GitHub repository page for 'newcicd'. At the top, there's a search bar and several navigation links: Code, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the header, the repository details are shown: 'newcicd' (Public), forked from 'yasmineelani/newcicd'. There are buttons for Pin, Watch (0), Fork (0), Star (0), and a dropdown menu. The repository has 1 branch and 0 tags. A message indicates 'This branch is 1 commit ahead of yasmineelani/newcicd:master'. The main area lists files: app (Update app.py), tests (edited), Dockerfile (Update Dockerfile), Jenkinsfile (Update Jenkinsfile), README.md (Update README.md), and requirements.txt (Update requirements.txt). On the right, there's an 'About' section with a note: 'No description, website, or topics provided.' It also shows statistics: Readme, Activity, 0 stars, 0 watching, and 0 forks. Below that is a 'Releases' section with a note: 'No releases published' and a link to 'Create a new release'. The final section is 'Packages' with a note: 'No packages published' and a link to 'Publish your first package'.

The screenshot shows a Jenkins pipeline configuration screen. The left sidebar has tabs for General, Advanced Project Options (selected), and Pipeline. The main area is titled 'Pipeline' under 'Definition'. It shows 'Pipeline script from SCM' selected. Under 'SCM', 'Git' is chosen. In the 'Repositories' section, there's a 'Repository URL' field containing 'https://github.com/ssvillan/newcicd.git'. The 'Credentials' field is set to '- none -'. At the bottom are 'Save' and 'Apply' buttons.

Global properties

Disable deferred wipeout on this node [?](#)

Disk Space Monitoring Thresholds

Environment variables

List of variables [?](#)

Name

DOCKER_BFLASK_IMAGE



Value

sumitdhal/python1



Name

Save **Apply**

Name

DOCKER_BFLASK_IMAGE



Value

sumitdhal/python1



Name

DOCKER_REGISTRY_CREDS

Value

dockerhub

Save **Apply**

Dashboard > Manage Jenkins > System >

Advanced ^ 

Use SMTP Authentication ?

User Name
sumitdhal2000@gmail.com

 For security when using authentication it is recommended to enable either TLS or SSL

Password  Concealed [Change Password](#)

Use SSL ?

Use TLS

SMTP Port ?
465

Reply-To Address

[Save](#) [Apply](#)

 docker EARLY ACCESS

Settings / Personal access tokens / New access token

Copy access token

Use this token as a password when you sign in from the Docker CLI client. [Learn more](#)

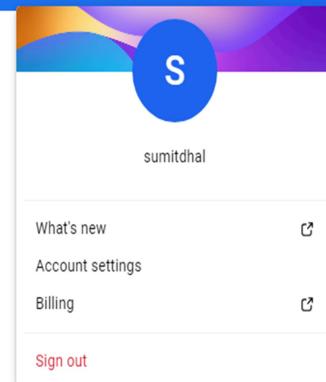
Make sure you copy your personal access token now. Your personal access token is only displayed once. It isn't stored and can't be retrieved later.

Access token description
ss

Access permissions
Read, Write, Delete

To use the access token from your Docker CLI client:

1. Run
`$ docker login registry-1.docker.io -u sumitdhal` [Copy](#)
2. At the password prompt, enter the personal access token.
`dckr_pat_A6F8BBbMzXFAdaVq3fK Gh5Bq1o4` [Copy](#)



Dashboard > Manage Jenkins > Plugins

Plugins

Updates Available plugins **Installed plugins** Advanced settings Download progress

Q email

Name	Enabled
Email Extension Plugin 1814.v404722f34263	<input checked="" type="checkbox"/> (x)
Email Extension Template Plugin 1.5	<input checked="" type="checkbox"/> (x)
Mailer Plugin 472.vf7c289a_4b_420	<input checked="" type="checkbox"/> (x)

REST API Jenkins 2.452.3

Dashboard > Manage Jenkins > Plugins

Plugins

Updates Available plugins **Installed plugins** Advanced settings Download progress

Q docker

Name	Enabled
Docker API Plugin 3.3.6-90.ve7c5c7535ddd	<input checked="" type="checkbox"/> (x)
Docker Commons Plugin 439.va_3cb_0a_6a_fb_29	<input checked="" type="checkbox"/> (x)
Docker plugin 1.6.2	<input checked="" type="checkbox"/> (x)

REST API Jenkins 2.452.3

Jenkins

Search (CTRL+K)

Sumit Dhabaldeb log out

Dashboard > Manage Jenkins > Credentials

T	P	Store ↓	Domain	ID	Name
		System	(global)	dockerhub	sumitdhal/******** (test)

Credentials

T	P	Store ↓	Domain	ID	Name
		System	(global)	dockerhub	sumitdhal/******** (test)

Stores scoped to Jenkins

P	Store ↓	Domains
	System	(global)

Icon: S M L

REST API Jenkins 2.452.3

30°C Cloudy ENG 19:15

Jenkins

Search (CTRL+K)

Sumit Dhabaldeb log out

Dashboard > Manage Jenkins > Credentials > System >

Domain ↓	Description
Global credentials (unrestricted)	Credentials that should be available irrespective of domain specification to requirements matching.

System

+ Add domain

Domain ↓	Description
Global credentials (unrestricted)	Credentials that should be available irrespective of domain specification to requirements matching.

Icon: S M L

REST API Jenkins 2.452.3

30°C Cloudy ENG 19:16

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) > sumitdhal/******** (test)

Update Delete Move

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

Username ? sumitdhal

Treat username as secret ?

Password ? *

ID ? dockerhub

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) > sumitdhal/******** (test)

Delete Move

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

Username ? sumitdhal

Treat username as secret ?

Password ? *

ID ? dockerhub

Description ? test



Global credentials (unrestricted)

+ Add Credentials

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

ID	Name	Kind	Description
 dockerhub	sumitdhal/******** (test)	Username with password	test

Icon: S M L



Google Account

?



← 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

jenkins

Created at 18:50, last used at 18:50



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

App name



 Jenkins

Search (CTRL+K)  Sumit Dhabaldeb 

Dashboard > Pythonproj > #6

 Status  Console Output

 Changes  View as plain text

 Edit Build Information  Delete build '#6'

 Timings  Git Build Data

 Pipeline Overview  Pipeline Console

 Restart from Stage

30°C Cloudy  ENG 19:20

Dashboard > Pythonproj > #6

Console Output

```
Started by user Sumit Dhabaldeb
Obtained Jenkinsfile from git https://github.com/ssvillan/newcicd.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/Pythonproj
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/Pythonproj/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/ssvillan/newcicd.git # timeout=10
Fetching upstream changes from https://github.com/ssvillan/newcicd.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/ssvillan/newcicd.git +refs/heads/*:refs/remotes/origin/*
latest: digest: sha256:ba2c72d02ba41924d3b3a77cdb2a1c2te5743dc544ccb51edate774809619t50 size: 2827
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] sh
+ docker rm -f mypycont
mypycont
[Pipeline] sh
+ docker run --name mypycont -d -p 3000:5000 my-flask
ee6e372d30e2c1373365630ff52ec74d494e1a0b3e20a62dc6d0b840833e42a
[Pipeline] catchError
[Pipeline] {
[Pipeline] mail
[Pipeline] }
[Pipeline] // catchError
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Status  **Pythonproj**

</> Changes My python Project

▷ Build Now  Edit description

⚙ Configure  Disable Project

🗑 Delete Pipeline

Permalinks

GitHub  Last build (#6), 17 min ago
Stages  Last stable build (#6), 17 min ago
Rename  Last successful build (#6), 17 min ago
Pipeline Syntax  Last failed build (#4), 27 min ago
Last unsuccessful build (#4), 27 min ago
Last completed build (#6), 17 min ago

 Build History 



Gmail  Search mail  Search mail  ?  

Notification mail from Jenkins          1 of 325        

address not configured yet <sumitdhal2000@gmail.com>
to me  19:04 (17 minutes ago)     

CI/CD pipeline completed successfully.

Check the application

