



## **Lab Experiment-7**

### **Create pipeline using Blue Ocean Plugin**

**NAME** -Divyaansh Jain

**ROLL NO** – R171218040

**SAP ID** – 500067134

**COURSE** – B. Tech CSE- DevOps Batch 1

**SUBJECT** – Continuous Integration and Deployment

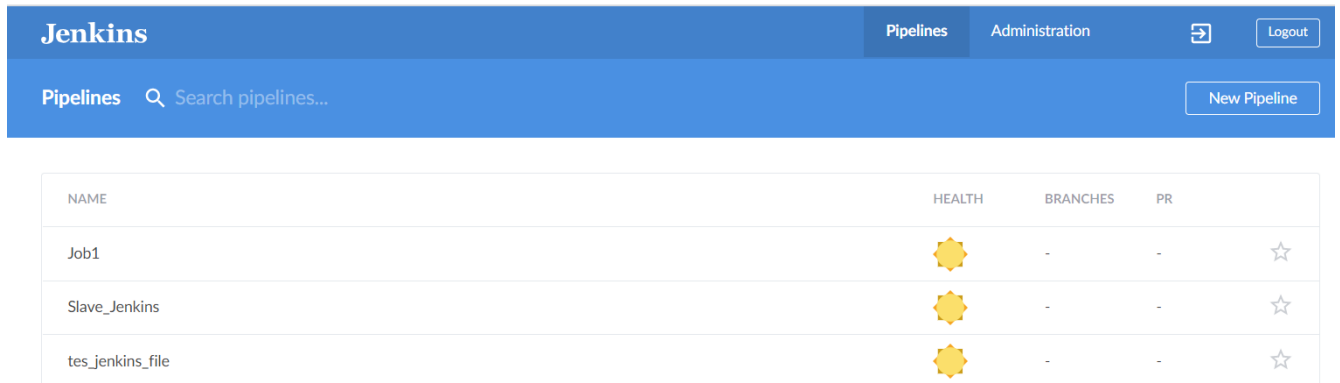
**SEMESTER** – 5<sup>th</sup> semester

**Submitted To:**

Hitesh Kumar Sir

## Experiment for demonstrating how to create pipeline using Blue Ocean Plugin

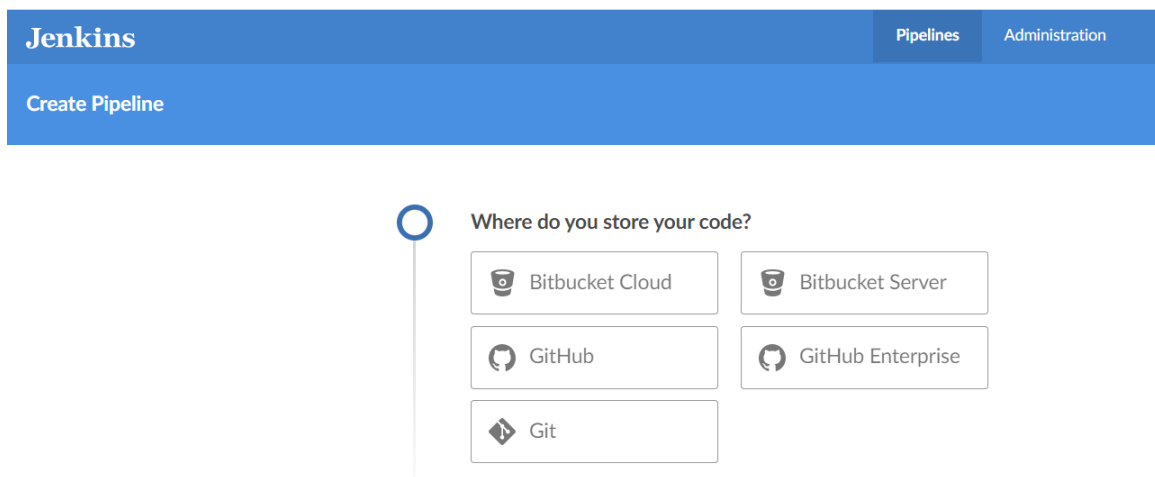
- Download Blue Ocean plugins from Manage Jenkins and you will find Open Blue Ocean in the Dashboard. Click on that and you will end up here. Create a new pipeline.



The screenshot shows the Jenkins interface with the 'Pipelines' tab selected. The top navigation bar includes 'Jenkins', 'Pipelines', 'Administration', and a 'Logout' button. Below the navigation bar, there is a search bar labeled 'Search pipelines...' and a 'New Pipeline' button. The main content area displays a table of pipelines.

NAME	HEALTH	BRANCHES	PR
Job1		-	-
Slave_Jenkins		-	-
tes_jenkins_file		-	-

- After that you will see this, choose the appropriate Open Source software and repository.



The screenshot shows the Jenkins 'Create Pipeline' screen. The top navigation bar includes 'Jenkins', 'Pipelines', and 'Administration'. Below the navigation bar, there is a 'Create Pipeline' button. The main content area displays a question: 'Where do you store your code?'. Below the question, there are five buttons with icons representing different code repositories: Bitbucket Cloud, Bitbucket Server, GitHub, GitHub Enterprise, and Git.

✓

Which organization does the repository belong to?

Divyaansh313

csdv1003

stormsinbrewing

○

Choose a repository

Loaded 95 repositories

Search...

28janwork

500071246

AAKARSHIT

abhijeet

Create Pipeline

- After selecting you will have to create a token in GitHub(or any chosen platform).

Settings / Developer settings

- GitHub Apps
- OAuth Apps
- Personal access tokens

## New personal access token

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

### Note

Blue Ocean

What's this token for?

### Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes](#).

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo:invite	Access repository invitations
<input checked="" type="checkbox"/> security_events	Read and write security events
<input type="checkbox"/> write:packages	Upload packages to github package registry
<input type="checkbox"/> read:packages	Download packages from github package registry
<input type="checkbox"/> delete:packages	Delete packages from github package registry
<input type="checkbox"/> admin:org	Full control of orgs and teams, read and write org projects
<input type="checkbox"/> write:org	Read and write org and team membership, read and write org projects
<input type="checkbox"/> read:org	Read org and team membership, read org projects

<input type="checkbox"/> <b>gist</b>	Create gists
<input type="checkbox"/> <b>notifications</b>	Access notifications
<input type="checkbox"/> <b>user</b>	Update all user data
<input checked="" type="checkbox"/> read:user	Read all user profile data
<input checked="" type="checkbox"/> user:email	Access user email addresses (read-only)
<input type="checkbox"/> user:follow	Follow and unfollow users
<input type="checkbox"/> <b>delete_repo</b>	Delete repositories
<input type="checkbox"/> <b>write:discussion</b>	Read and write team discussions
<input type="checkbox"/> read:discussion	Read team discussions
<input type="checkbox"/> <b>admin:enterprise</b>	Full control of enterprises
<input type="checkbox"/> manage_billing:enterprise	Read and write enterprise billing data
<input type="checkbox"/> read:enterprise	Read enterprise profile data
<input type="checkbox"/> <b>workflow</b>	Update github action workflows
<input type="checkbox"/> <b>admin:pgp_key</b>	Full control of public user pgp keys (Developer Preview)
<input type="checkbox"/> write:pgp_key	Write public user pgp keys
<input type="checkbox"/> read:pgp_key	Read public user pgp keys

[Generate token](#) [Cancel](#)

- After the token is created, you will get this.

GitHub Apps

OAuth Apps

Personal access tokens

Personal access tokens

Generate new token

Revoke all

Tokens you have generated that can be used to access the [GitHub API](#).

Make sure to copy your new personal access token now. You won't be able to see it again!

✓ d61e614a518e0e11dc08e430b33a7b709c096055

📋

Delete

git: <https://github.com/> on LAPTOP-L1FIDIQ4 at 23-Nov-2019 16:13 — gist, Last used within the last 4 months

Delete

repo

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

- Copy this token and paste in the Blue Ocean pipeline.

✓ Where do you store your code?

Bitbucket Cloud

Bitbucket Server

GitHub

GitHub Enterprise

Git

○ Connect to GitHub

Jenkins needs an access token to authorize itself with GitHub.  
[Create an access token here.](#)

Invalid access token.

Connect

○ Complete

- The pipeline is created and it will show some status like this.

tes_jenkins_file ☆ ⚙							
Activity Branches Pull Requests							
STATUS	RUN	COMMIT	BRANCH	MESSAGE	DURATION	COMPLETED	
○	1	da64818	master	Branch indexing	13s	-	⌵

- After the successful build, you will see something like this.

Jenkins Pipelines Administration ⌵ Logout							
tes_jenkins_file ☆ ⚙ Activity Branches Pull Requests							
STATUS	RUN	COMMIT	BRANCH	MESSAGE	DURATION	COMPLETED	
✓	2	da64818	master	Replayed #1	16s	a few seconds ago	↺
✗	1	da64818	master	Branch indexing	18s	a minute ago	↺

- You will see a successful build when you click on the commit id.

✓ tes\_jenkins\_file < 2

Pipeline

Changes

Tests

Artifacts

↺

✎

⚙

📄

Logout

✕

Branch: master

🕒 16s

No changes

Commit: da64818

🕒 a minute ago

Replayed #1



Test - 8s

Restart Test

✓ mvn clean — Windows Batch Script 8s

```
1 C:\Users\ASUS\.jenkins\workspace\tes_jenkins_file_master>mvn clean
2 [INFO] Scanning for projects...
3 [INFO]
4 [INFO] -----< test.jenkinsfile:test.jenkinsfile >-----
5 [INFO] Building test.jenkinsfile 0.0.1-SNAPSHOT
6 [INFO] -----[ jar ]-----
7 [INFO]
8 [INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ test.jenkinsfile ---
9 [INFO]
10 [INFO] BUILD SUCCESS
11 [INFO]
12 [INFO] Total time: 0.765 s
13 [INFO] Finished at: 2020-09-18T11:36:54+05:30
14 [INFO] -----
```