

Jenkins pipeline Task 2 by Subiksha P R

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Definition: Jenkins pipeline is an automated process that defines the steps for building, testing, and deploying applications.

Step 1: Open Jenkins and Create a New Pipeline

1. Log in to your Jenkins instance using your credentials.
2. Once logged in, navigate to the Jenkins dashboard.
3. In the dashboard, click on the "New Item" option located on the left-hand side of the screen.
4. In the dialog box that appears, enter a descriptive name for your new pipeline in the "Item Name" field.
5. From the list of options, select "Pipeline" as the item type to create a new pipeline job.
6. After selecting "Pipeline", click on the "OK" button to proceed with the pipeline setup.

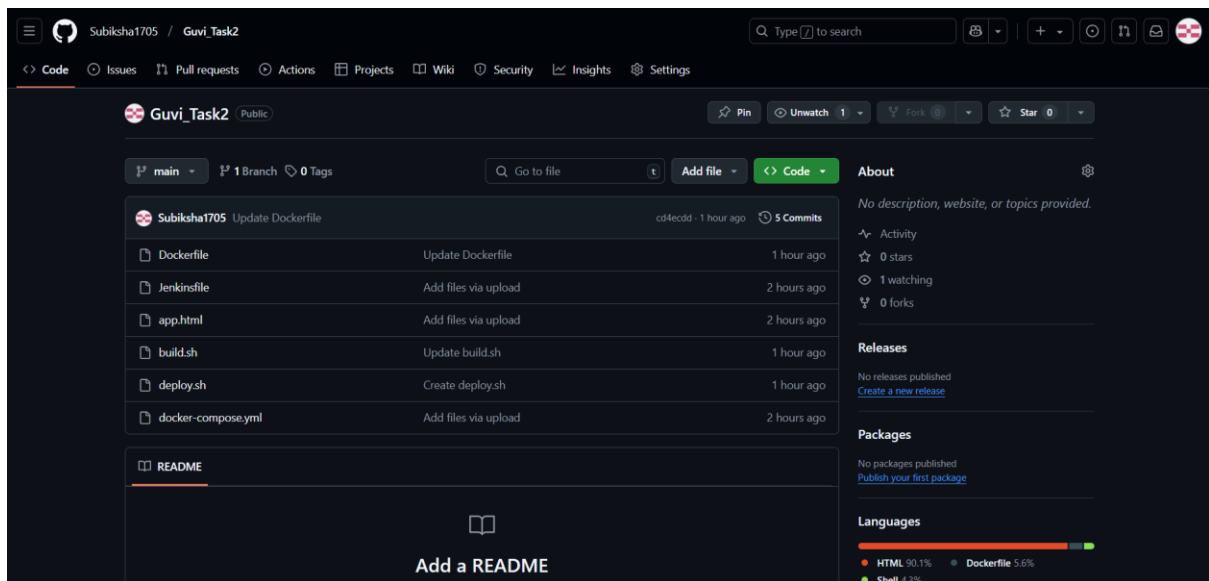
Step 2: Configure the Pipeline

1. In the "General" section, you can optionally configure settings like the description, or restrict pipeline execution to certain nodes (if applicable).
2. Configure other parameters such as "Build Triggers" (e.g., to trigger the pipeline automatically based on certain events like code changes or scheduled times).

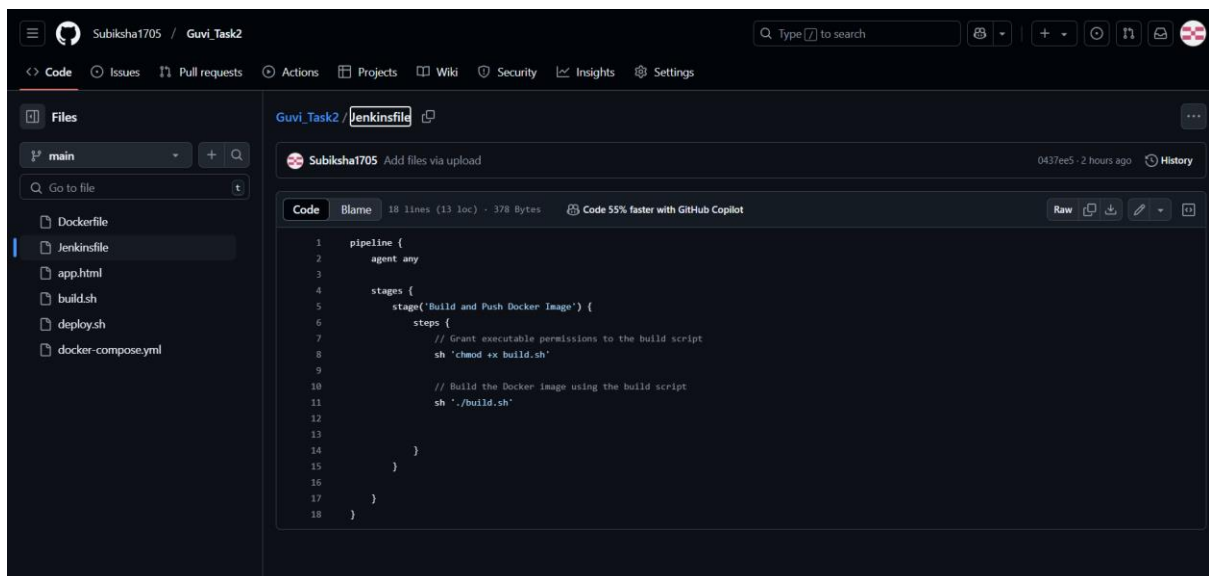
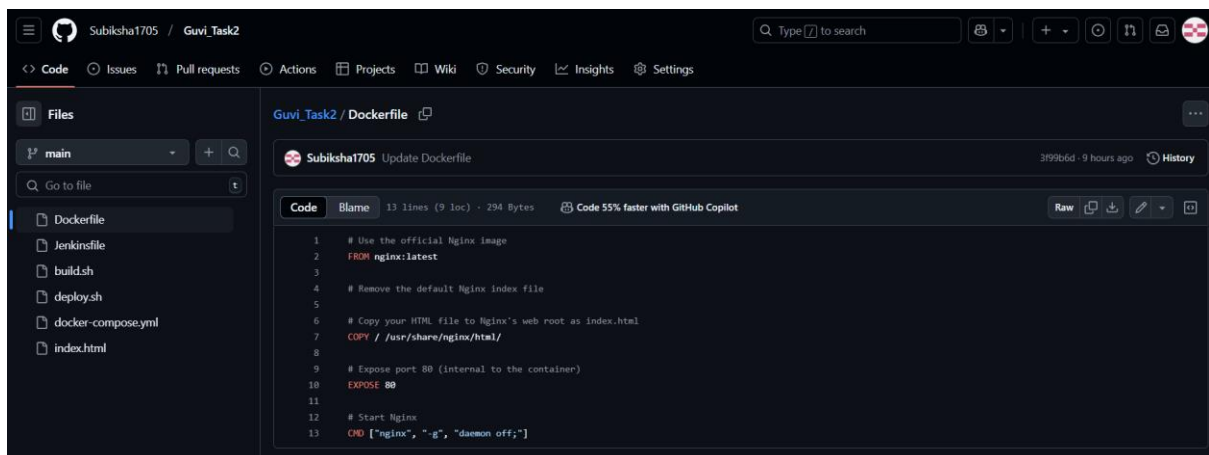
Step 3: Define the Pipeline Script Now, you will define the pipeline script using a Jenkinsfile stored in your source control system (SCM).

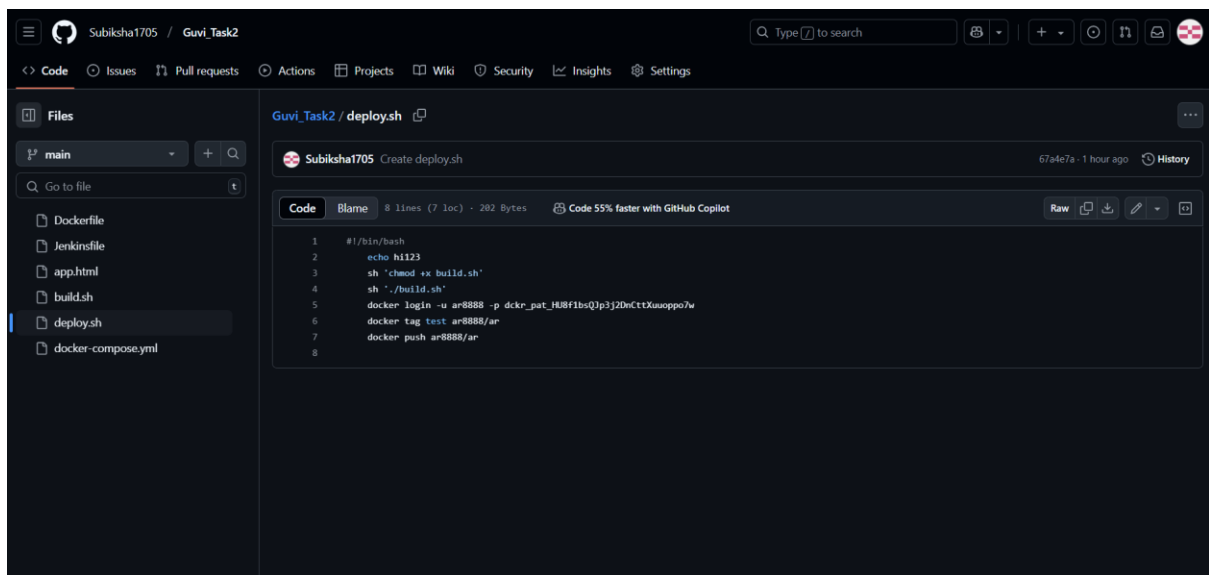
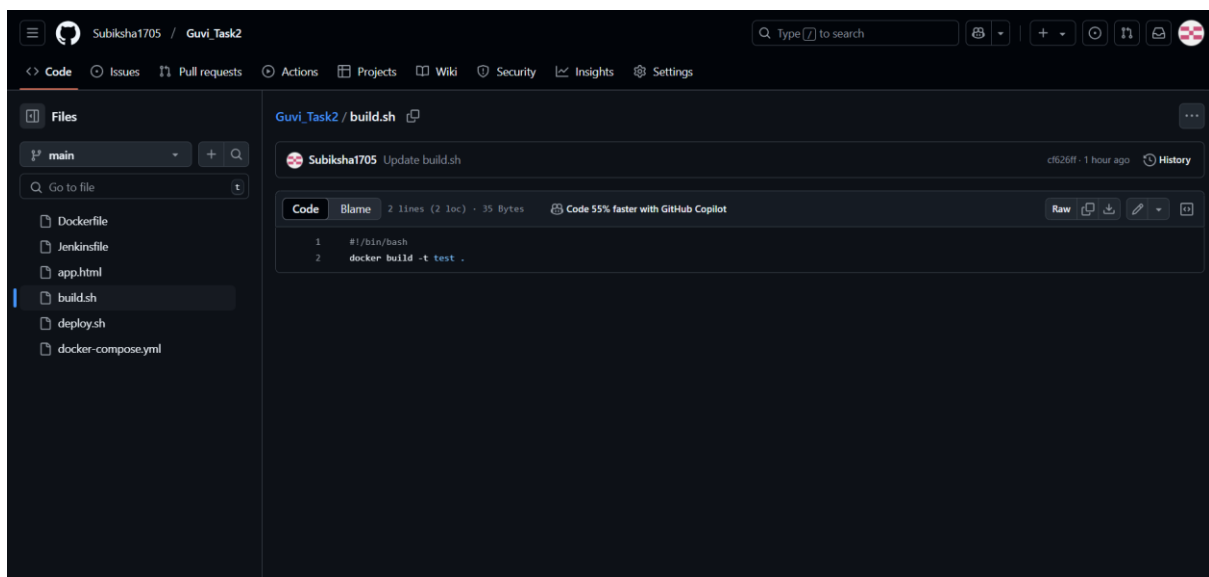
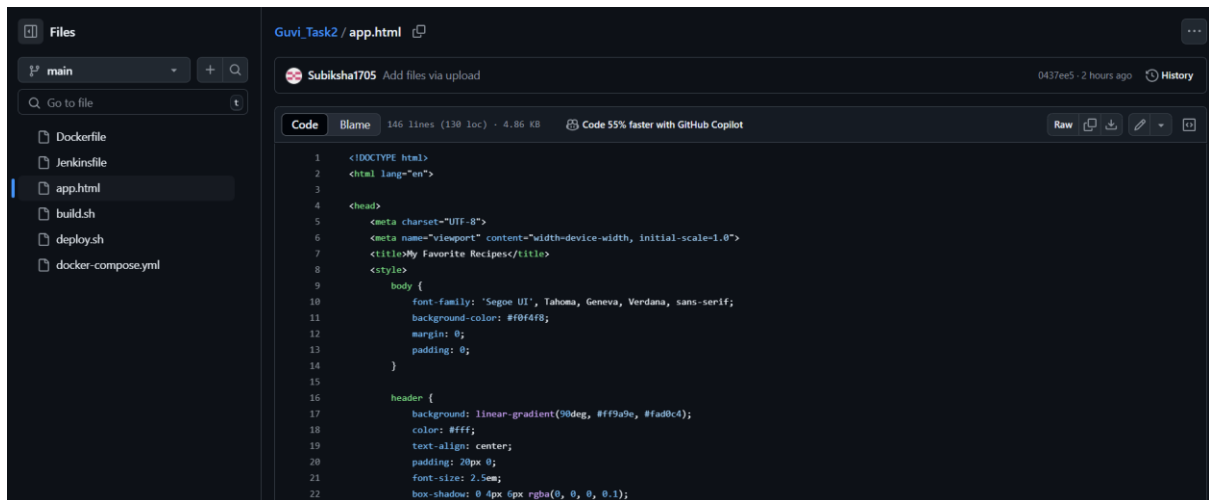
1. In the "Pipeline" section of the configuration page, locate the "Definition" field and select the option "Pipeline script from SCM".
2. Next, choose "Git" as the SCM (Source Control Management) system from the "SCM" dropdown.
3. Enter the URL of your Git repository in the "Repository URL" field. This should be the location where your Jenkinsfile is stored.
4. In the "Branch" field, specify the branch that contains the Jenkinsfile. Typically, this will be main or master, or another relevant branch.
5. Set the "Script Path" to the location of the Jenkinsfile within the repository. By default, this is usually Jenkinsfile, but if your file is in a subdirectory, specify the relative path (e.g., folder/Jenkinsfile).
6. After completing these fields, click "Save" to save the pipeline configuration.

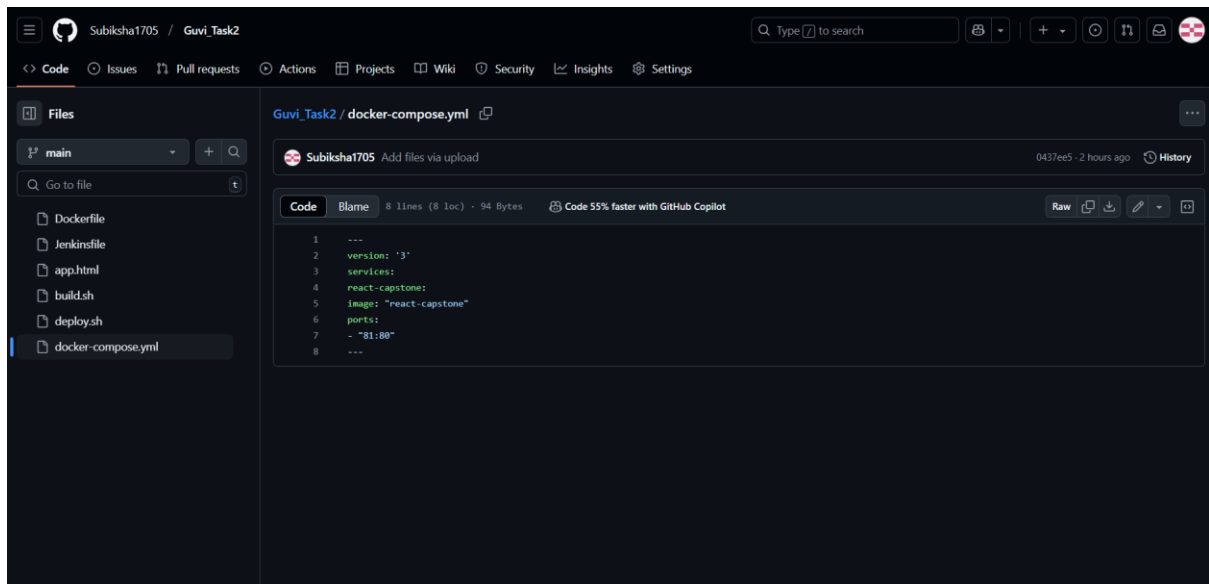
Github Repository “Guvi_Task2” with all necessary files with build and deploy,



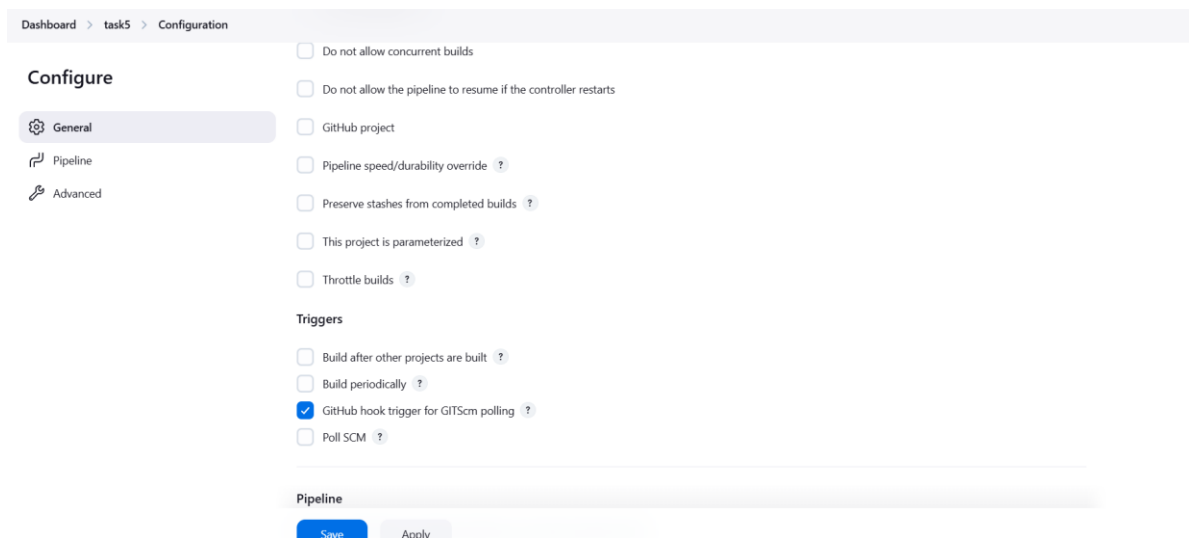
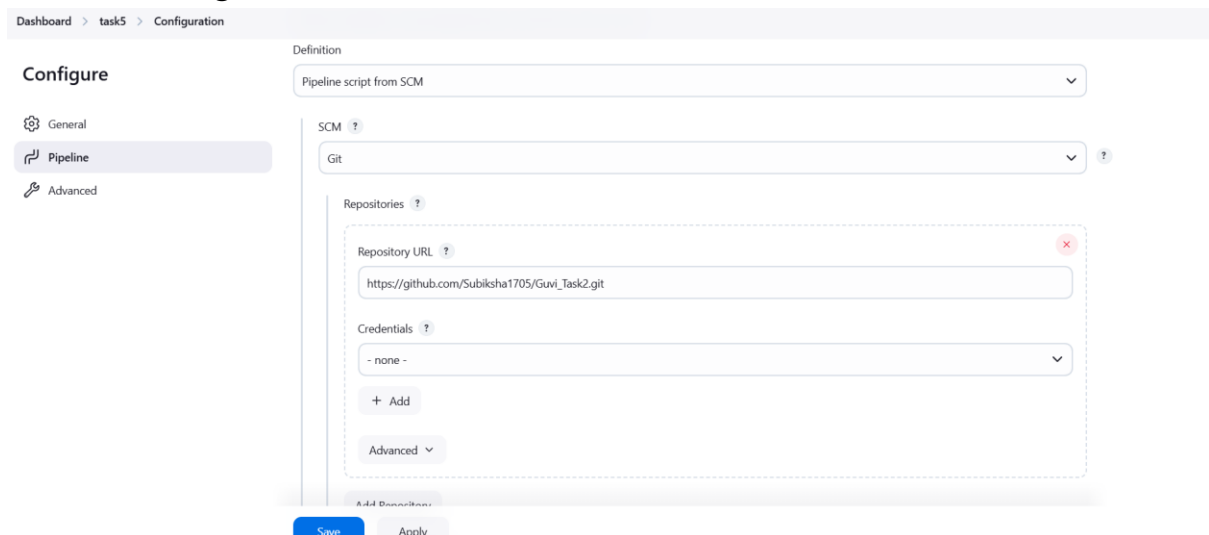
Each file's Screenshot,







Jenkins Configuration,



Dashboard > task5 > Configuration

Configure

- General
- Pipeline
- Advanced**

Branch Specifier (blank for 'any') ?

*/main

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add

Script Path ?

Jenkinsfile

☒ Lightweight checkout ?

Pipeline Syntax

Save Apply

After Build Now,

Jenkins

Dashboard > task5

Status

task5

Add description

Permalinks

- Last build (#30), 34 sec ago
- Last stable build (#30), 34 sec ago
- Last successful build (#30), 34 sec ago
- Last failed build (#24), 9 hr 8 min ago
- Last unsuccessful build (#24), 9 hr 8 min ago
- Last completed build (#30), 34 sec ago

Builds

Filter

Today

#30 4:58 PM

The image is Built and pushed to hub,

More Docker. Easy Access. New Streamlined Plans. Learn more. →

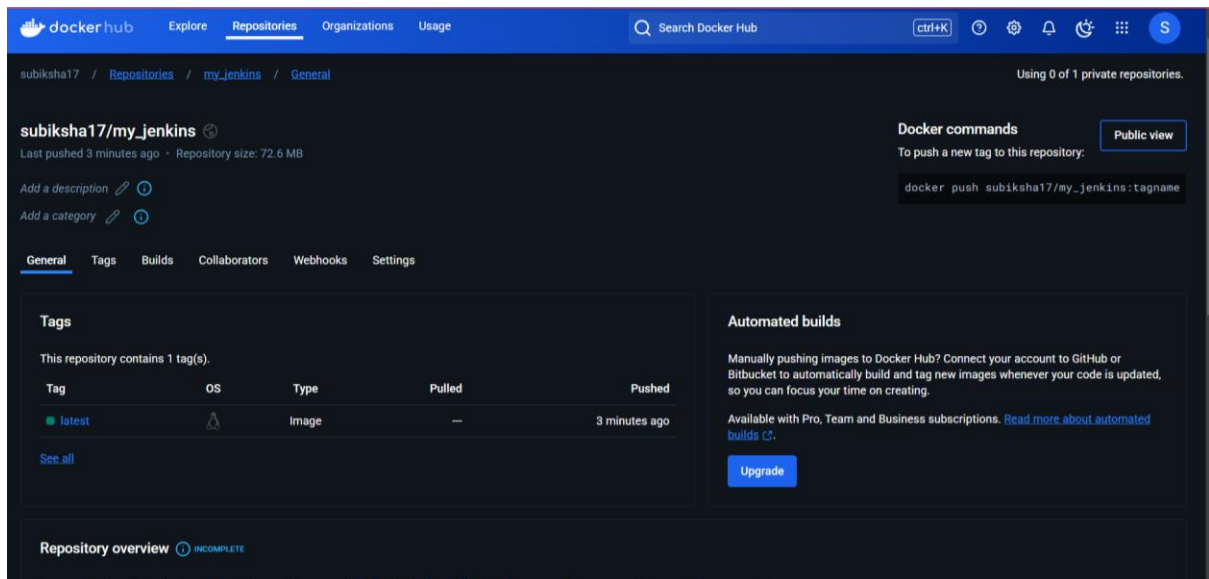
dockerhub Explore Repositories Organizations Usage

Search Docker Hub

subiksha17 Search by repository name All content Create a repository

Name	Last Pushed ↑	Contains	Visibility	Scout
subiksha17/my_jenkins	3 minutes ago	IMAGE	Public	Inactive

1-1 of 1



Output:

