Jenkins pipeline Task 2 by Subiksha P R

04.02.2025

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.

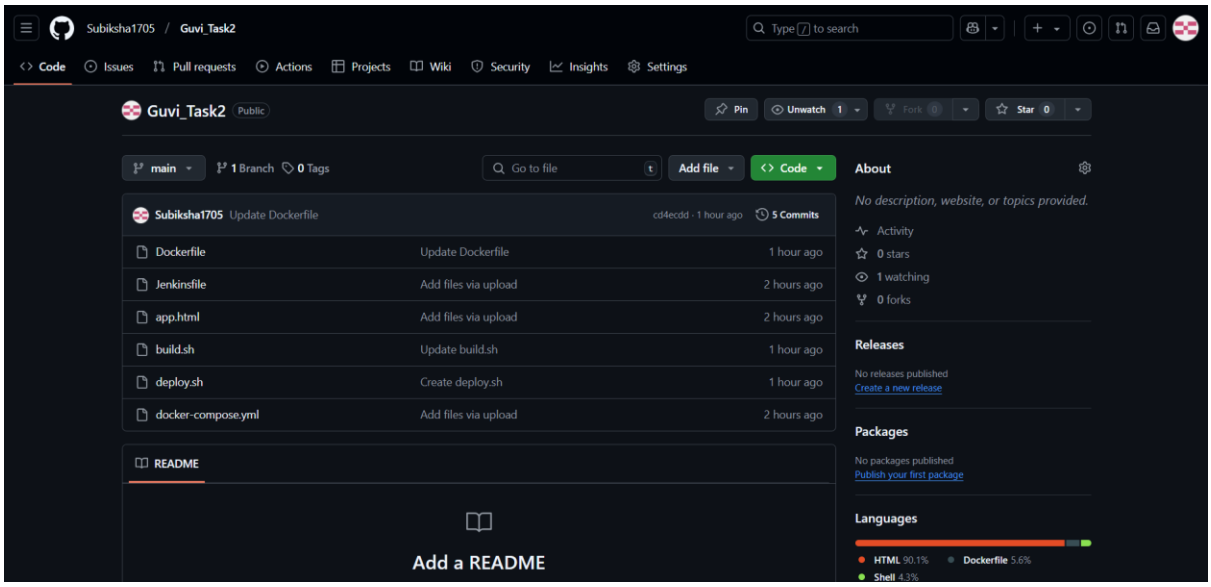
Step 2: Configure the Pipeline

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).

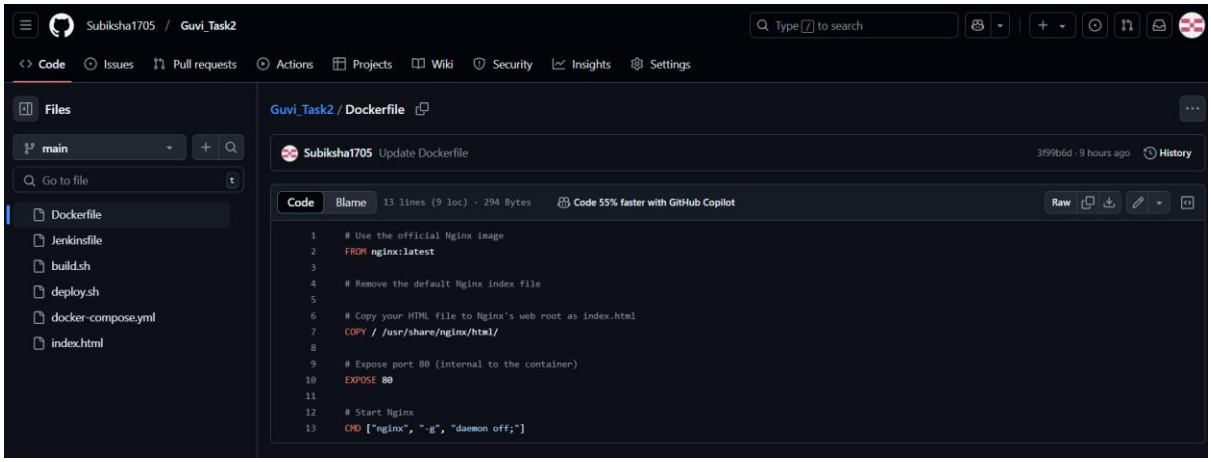
Step 3: Define the Pipeline Script Now, you will define the pipeline script using a Jenkinsfile stored in your source control system (SCM).

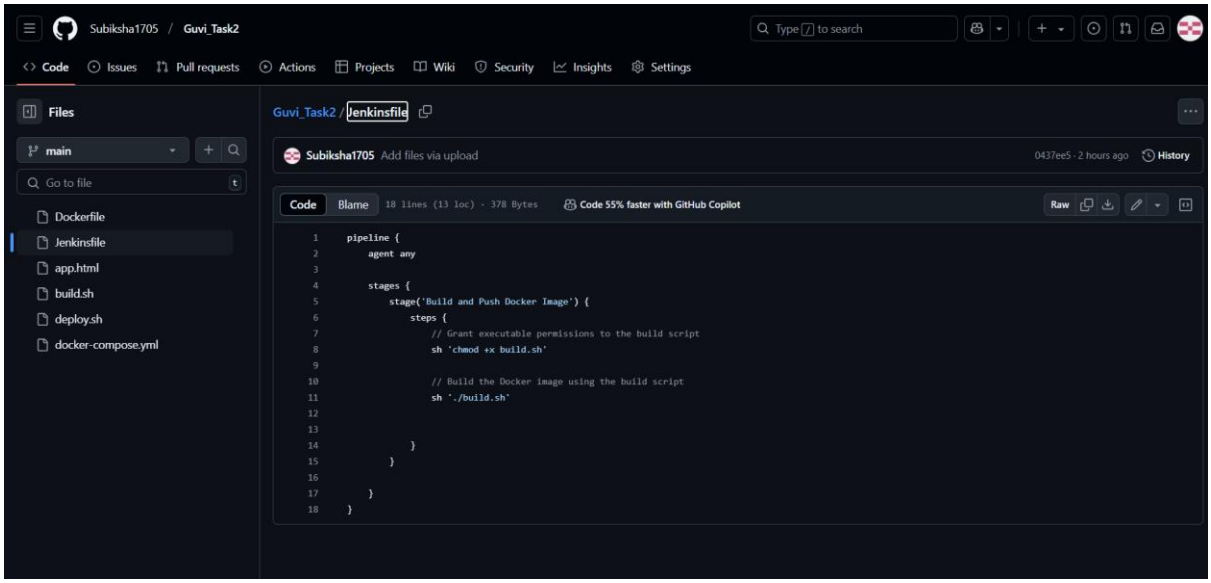
1. In the "Pipeline" section of the configuration page, locate the "Definition" field and select the option "Pipeline script from SCM".
2. Next, choose "Git" as the SCM (Source Control Management) system from the "SCM" dropdown.
3. Enter the URL of your Git repository in the "Repository URL" field. This 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.

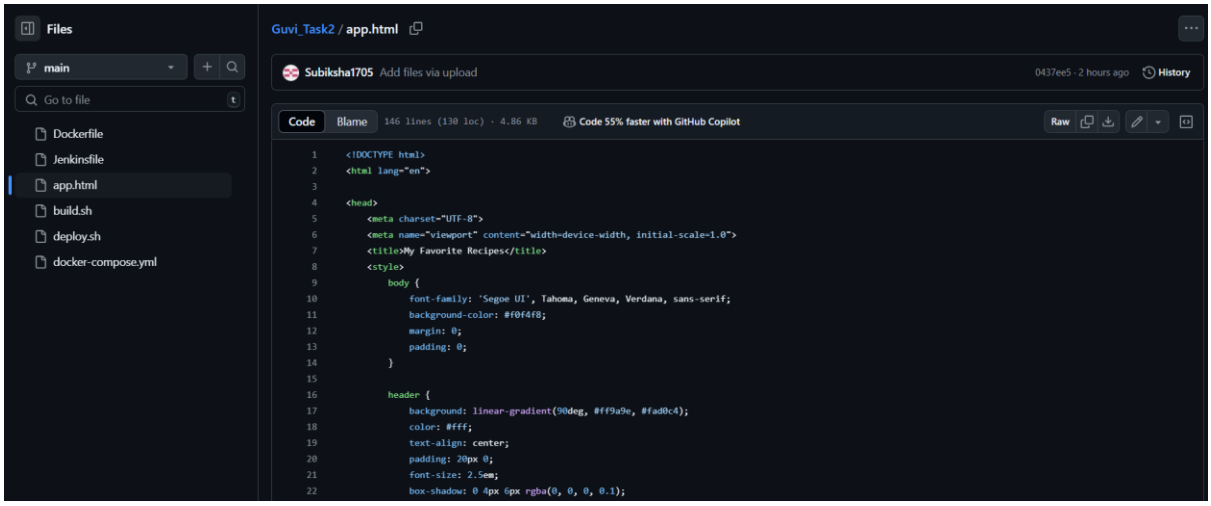
Github Repository “Guvi_Task2” with all necessary files with build and deploy,

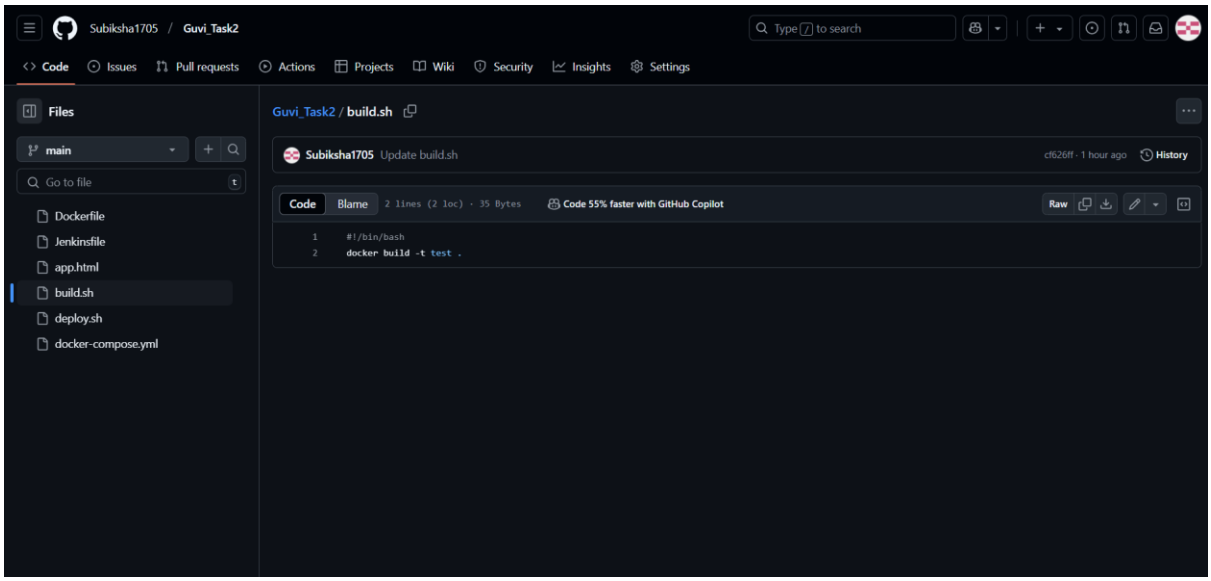


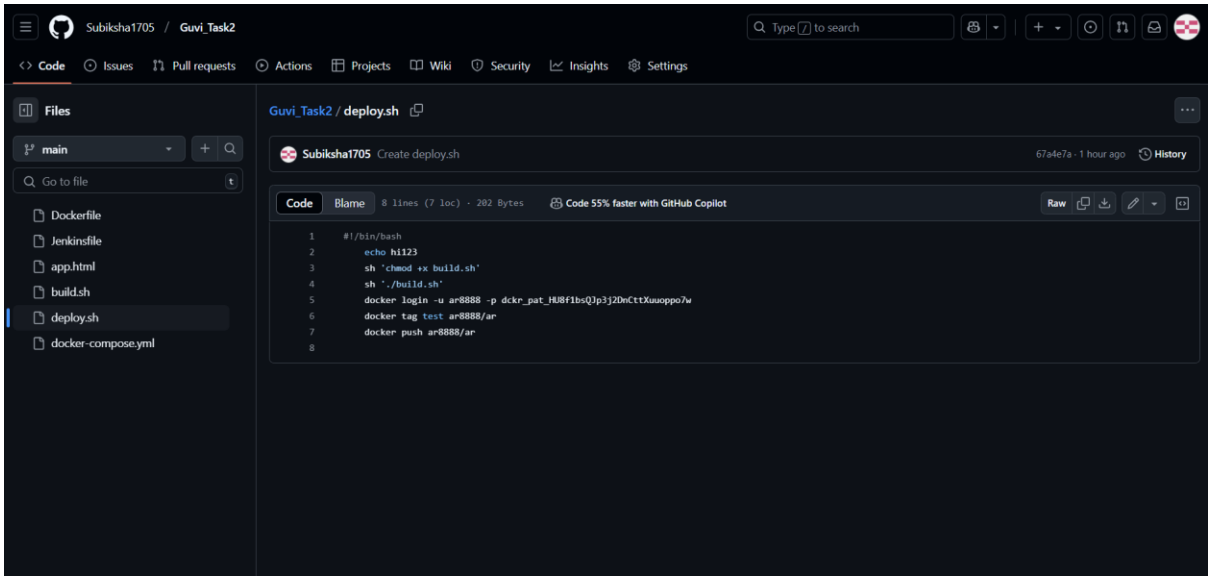
Each file’s Screenshot,

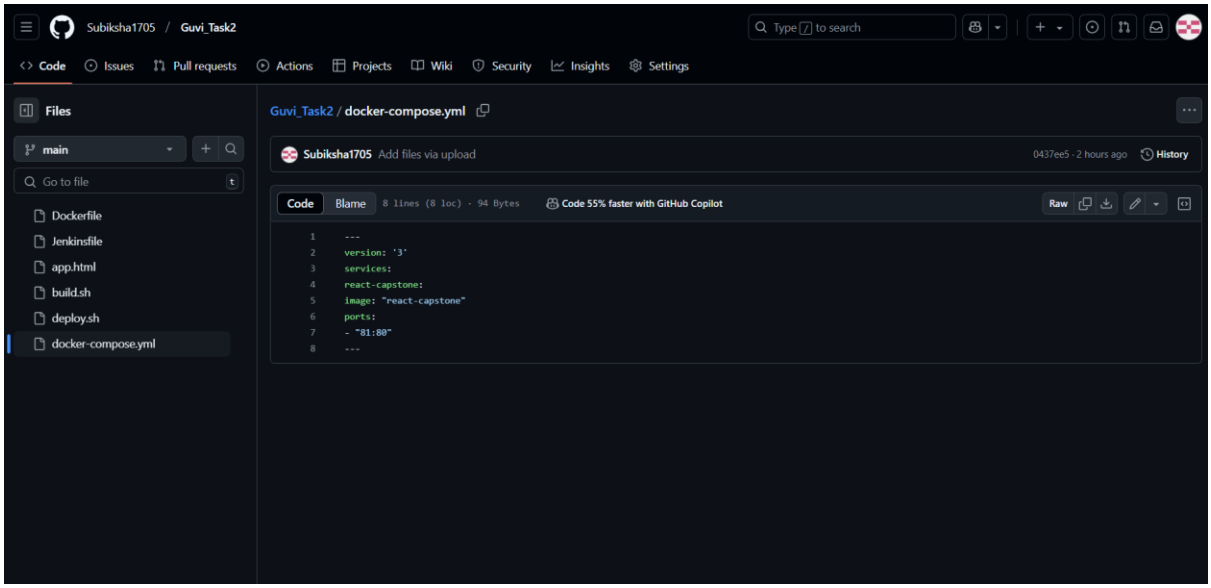




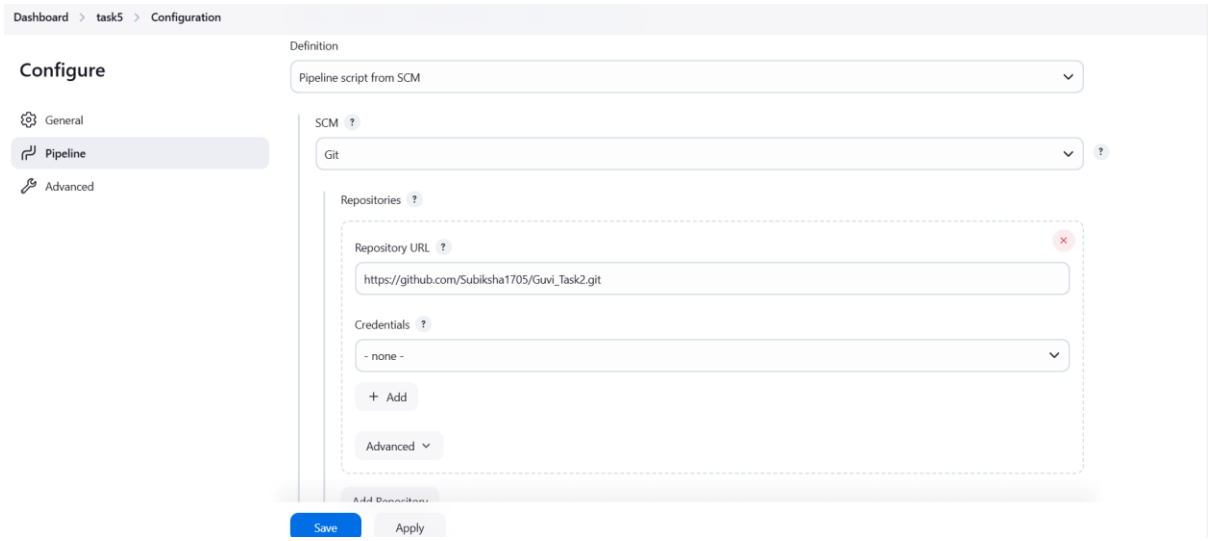

Files
main
Go to file
Dockerfile
Jenkinsfile
app.html
build.sh
deploy.sh
docker-compose.yml
Guvi_Task2 / app.html
Subiksha1705 Add files via upload
0437ee5 · 2 hours ago
History
Code
Blame
146 lines (130 loc) · 4.86 KB
Code 55% faster with GitHub Copilot
Raw
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>My Favorite Recipes</title>
<style>
body {
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
background-color: #f0f4f8;
margin: 0;
padding: 0;
}
header {
background: linear-gradient(90deg, #ff9a9e, #fad0c4);
color: #fff;
text-align: center;
padding: 20px 0;
font-size: 2.5em;
box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);

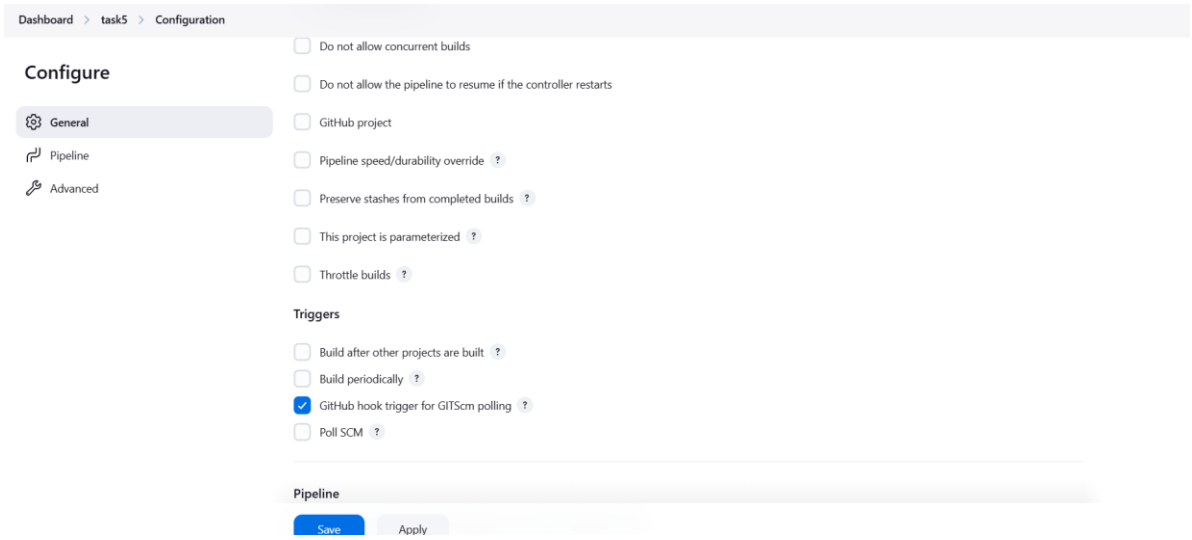

Subiksha1705 / Guvi_Task2
Type / to search
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Files
main
Go to file
Dockerfile
Jenkinsfile
app.html
build.sh
deploy.sh
docker-compose.yml
Guvi_Task2 / build.sh
Subiksha1705 Update build.sh
cf626ff · 1 hour ago
History
Code
Blame
2 lines (2 loc) · 35 Bytes
Code 55% faster with GitHub Copilot
Raw
#!/bin/bash
docker build -t test .

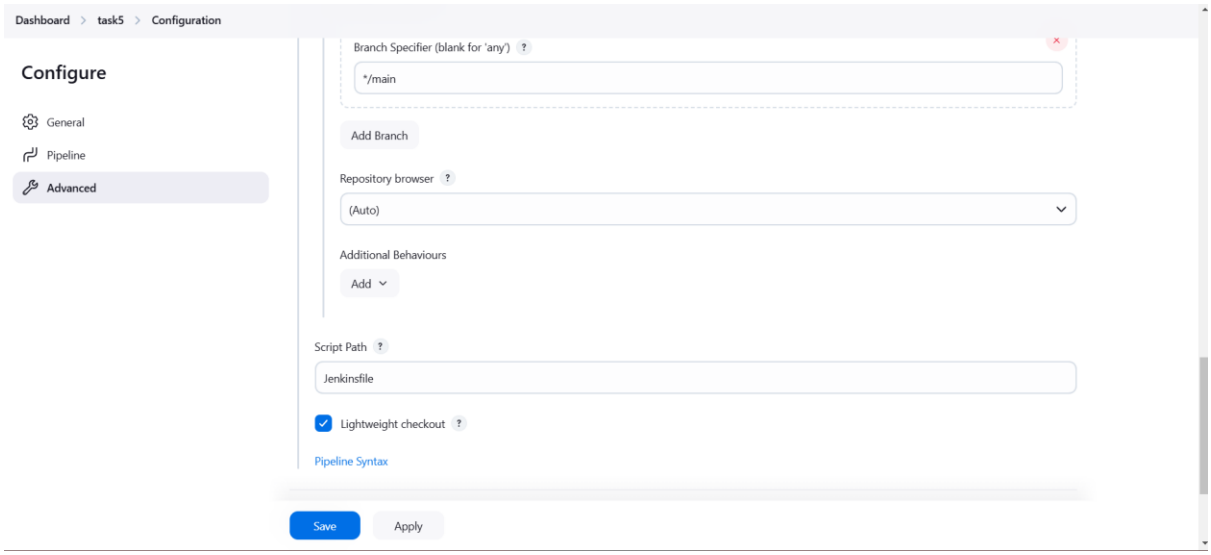

Subiksha1705 / Guvi_Task2
Type / to search
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Files
main
Go to file
Dockerfile
Jenkinsfile
app.html
build.sh
deploy.sh
docker-compose.yml
Guvi_Task2 / deploy.sh
Subiksha1705 Create deploy.sh
67a4e7a · 1 hour ago
History
Code
Blame
8 lines (7 loc) · 202 Bytes
Code 55% faster with GitHub Copilot
Raw
#!/bin/bash
echo hi123
sh 'chmod +x build.sh'
sh './build.sh'
docker login -u ar8888 -p dckr_pat_HU8f1bsQJp3j2DnCttXuuoppo7w
docker tag test ar8888/ar
docker push ar8888/ar



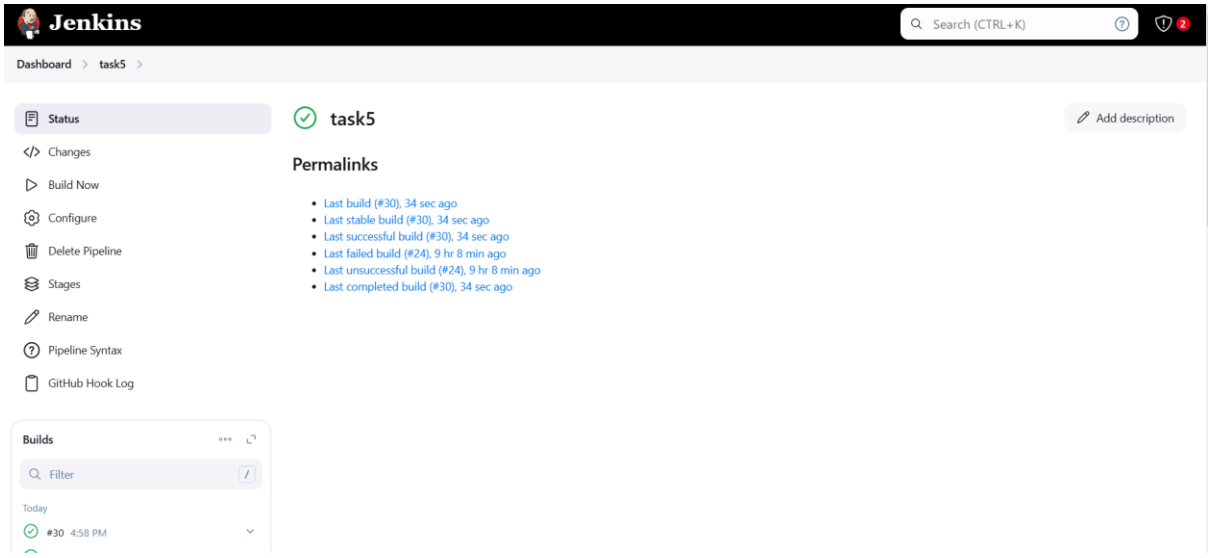
Jenkins Configration,



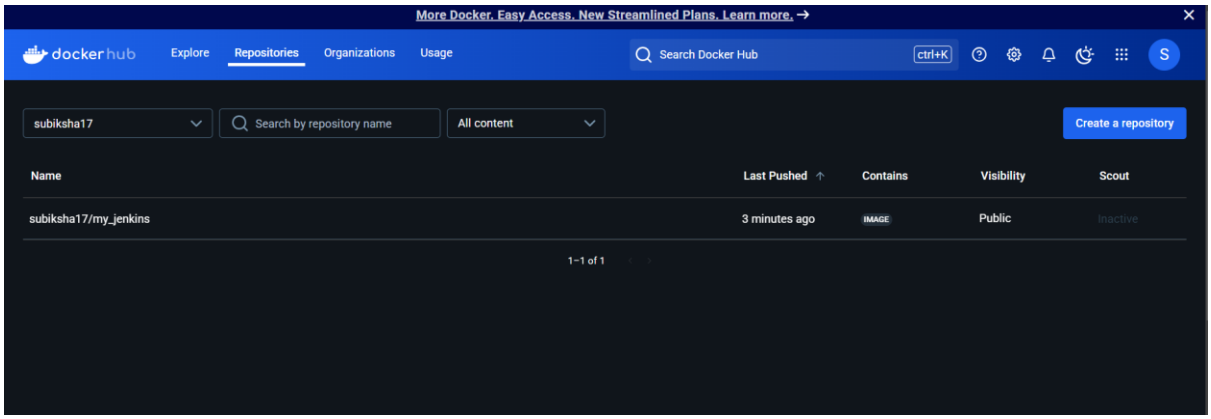


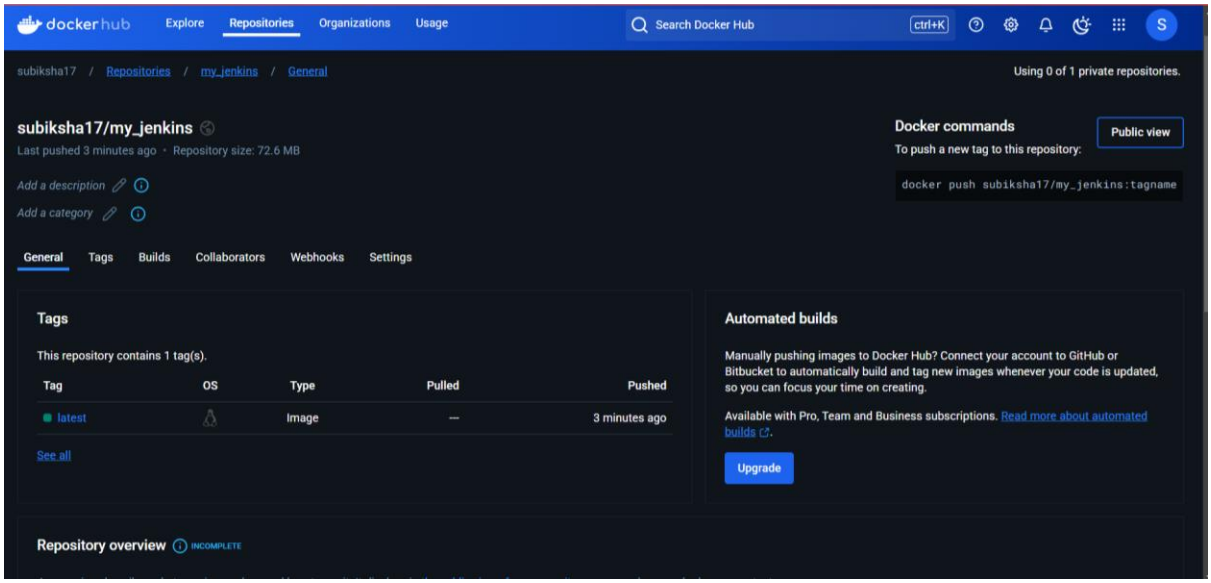


After Build Now,

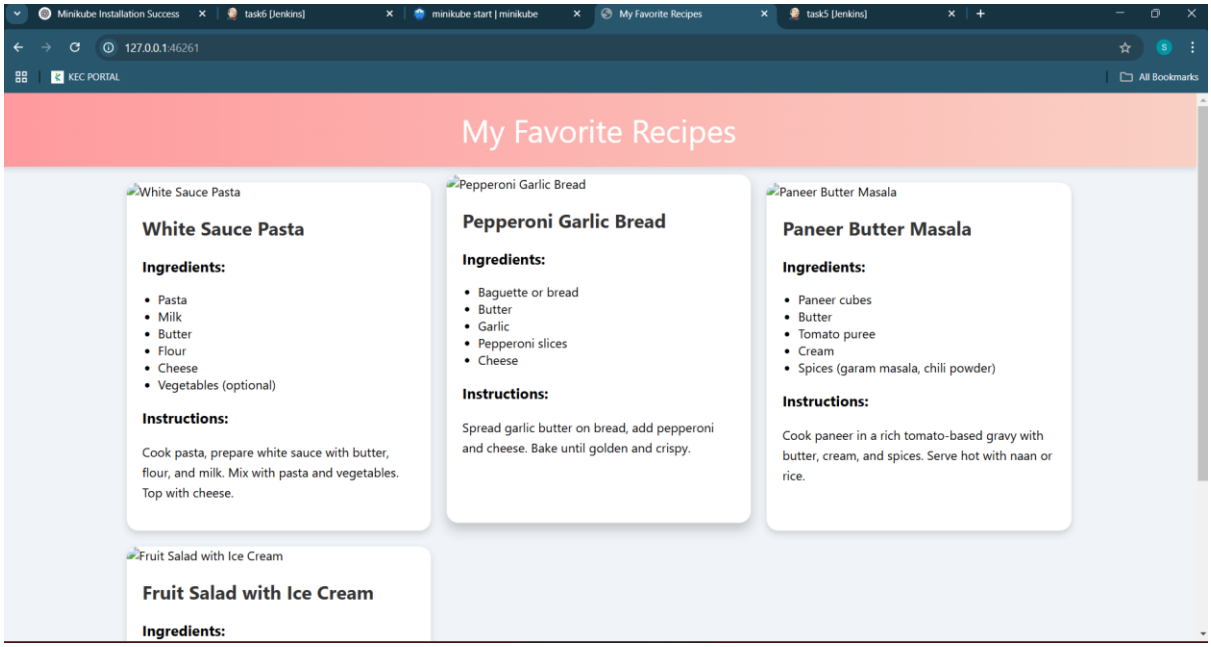


The image is Built and pushed to hub,




docker hub
Explore
Repositories
Organizations
Usage
Search Docker Hub
ctrl+K
subiksha17 / Repositories / my_jenkins / General
Using 0 of 1 private repositories.
subiksha17/my_jenkins
Last pushed 3 minutes ago • Repository size: 72.6 MB
Add a description
Add a category
Docker commands
To push a new tag to this repository:
Public view
docker push subiksha17/my_jenkins:tagname
General
Tags
Builds
Collaborators
Webhooks
Settings
Tags
This repository contains 1 tag(s).
Tag
OS
Type
Pulled
Pushed
latest
Image
—
3 minutes ago
See all
Automated builds
Manually pushing images to Docker Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.
Available with Pro, Team and Business subscriptions. Read more about automated builds.
Upgrade
Repository overview
INCOMPLETE

Output:


Minikube Installation Success
task6 [Jenkins]
minikube start | minikube
My Favorite Recipes
task5 [Jenkins]
127.0.0.1:46261
KEC PORTAL
All Bookmarks
My Favorite Recipes
White Sauce Pasta
White Sauce Pasta
Ingredients:
Pasta
Milk
Butter
Flour
Cheese
Vegetables (optional)
Instructions:
Cook pasta, prepare white sauce with butter, flour, and milk. Mix with pasta and vegetables. Top with cheese.
Pepperoni Garlic Bread
Pepperoni Garlic Bread
Ingredients:
Baguette or bread
Butter
Garlic
Pepperoni slices
Cheese
Instructions:
Spread garlic butter on bread, add pepperoni and cheese. Bake until golden and crispy.
Paneer Butter Masala
Paneer Butter Masala
Ingredients:
Paneer cubes
Butter
Tomato puree
Cream
Spices (garam masala, chili powder)
Instructions:
Cook paneer in a rich tomato-based gravy with butter, cream, and spices. Serve hot with naan or rice.
Fruit Salad with Ice Cream
Fruit Salad with Ice Cream
Ingredients: