Step-by-Step Guide: Build and Deploy a Simple App using Jenkins

This guide will walk you through **building and deploying** a simple application using **Jenkins CI/CD pipeline**.

Before you start, make sure you have the following:

Jenkins installed (locally, on a VM, or on Docker)

Git installed on Jenkins server

Docker installed if deploying with containers

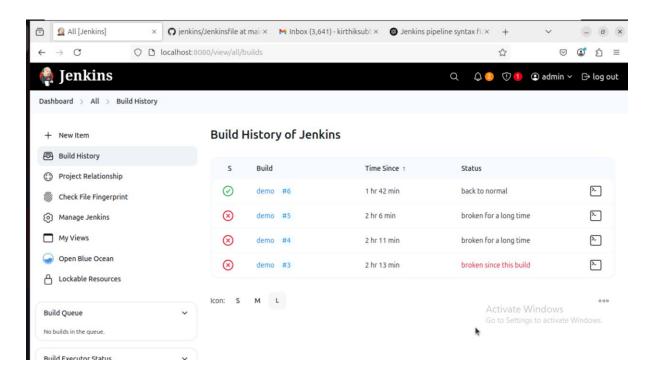
A GitHub repository with a simple application (e.g., Python, Java, or Node.js)

create in the next step).

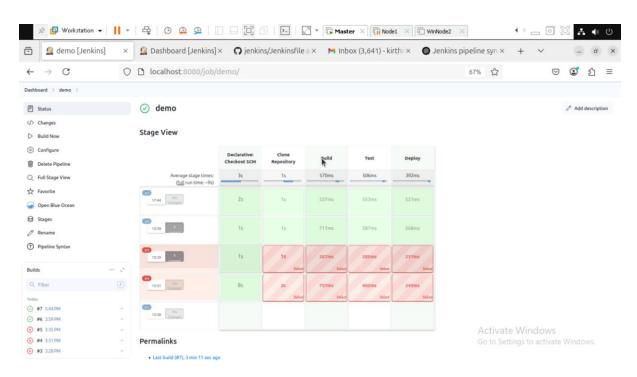
CODE:

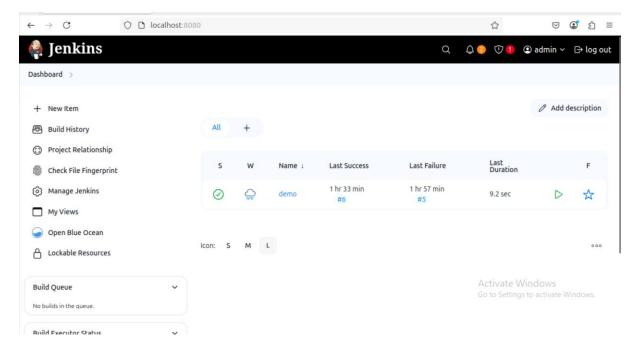
```
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🗈 🙎 Dashboard [Jenkins] × 🕠 jenkins/Jenkinsfile at mai × M Inbox (3,641) - kirthiksubl × 📵 Jenkins pipeline syntax fi × +
               ○ A https://github.com/kirthiksubbiah/jenkins/blob/main/Jenkinsfile
                                                                                                                   kirthiksubbiah Update Jenkinsfile
                                                                                                         Code Blame 25 lines (25 loc) · 575 Bytes
                                                                                                           Raw □ ± 0 + □
          pipeline {
             agent any
             stages {
                                                                                   I
                      git url: 'https://github.com/kirthiksubbiah/jenkins.git',branch: 'main'
                stage('Build') {
                      sh 'echo "Building the application..."
                stage('Test') {
                      sh 'echo "Running tests..."'
                 stage('Deploy') {
                   steps {
                      sh 'echo "Deploying application..."'
```

BUILD HISTORY OF JENKINS:

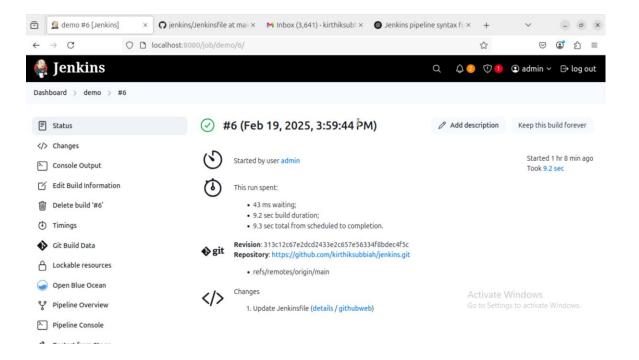


STAGE VIEW:





STATUS:



Create a Jenkinsfile (CI/CD Pipeline)

In your GitHub repository, create a new file named **Jenkinsfile** and add the following code:

```
groovy
CopyEdit
pipeline {
```

```
agent any
   stages {
       stage('Clone Repository') {
           steps {
               git 'https://github.com/your-username/your-repo.git'
           }
       }
       stage('Build') {
           steps {
              sh 'echo "Building the application..."'
        }
       stage('Test') {
           steps {
              sh 'echo "Running tests..."'
        stage('Deploy') {
           steps {
              sh 'echo "Deploying application..."'
          }
       }
   }
}
```