

# Static Application Deployment with Jenkins and Docker

## Step 1: Create a Simple Static Application

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index.html

```
<!DOCTYPE html>

<html>

  <head>

    <title>Hello Supraja</title>

  </head>

  <body>

    <h1>Hello Supraja</h1>

  </body>

</html>
```

## Step 2: Dockerfile to Serve the App

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Dockerfile

```
FROM nginx:alpine

COPY index.html /usr/share/nginx/html/index.html

EXPOSE 80
```

Commands to test locally:

```
docker build -t hello-supraja .
```

```
docker run -d -p 8080:80 hello-supraja
```

### Step 3: Jenkinsfile (CI/CD Pipeline)

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Jenkinsfile

```
pipeline {  
    agent any  
  
    stages {  
        stage('Checkout') {  
            steps {  
                git branch: 'main', url: 'https://github.com/<your-username>/<your-repo>.git'  
            }  
        }  
  
        stage('Build Docker Image') {  
            steps {  
                script {  
                    sh 'docker build -t hello-supraja .'  
                }  
            }  
        }  
    }  
}
```

```
stage('Run Container') {  
    steps {  
        script {  
            sh 'docker rm -f hello-supraja || true'  
            sh 'docker run -d -p 8080:80 --name hello-supraja hello-supraja'  
        }  
    }  
}  
}
```

#### Step 4: Configure Jenkins

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1. Install Jenkins and Docker on your system (or use Jenkins in Docker).
2. Install Docker Pipeline plugin in Jenkins.
3. Create a new Jenkins pipeline job and connect it to your repo.
4. Trigger the pipeline and Jenkins will build and deploy your app.

#### Step 5: Verify

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Open your browser at:

<http://<your-server-ip>:8080>

You should see:

Hello Supraja