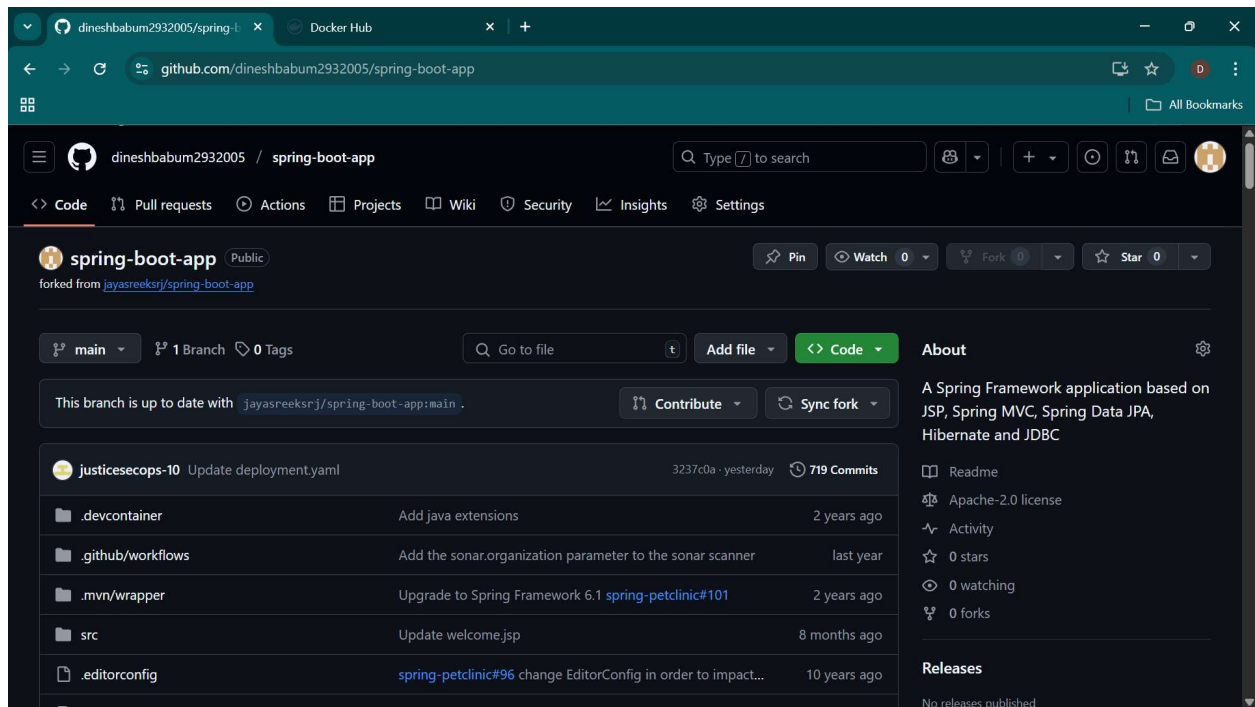


Spring Boot with Maven & Tomcat in Docker

<https://github.com/dineshbabum2932005/spring-boot-app>



Plugins:

Maven Integration plugin

Pipeline Maven plugin

Tools: Use maven 3.9.6

and Maven Home as /opt/mvn

Configure - pipeline:

```
pipeline {
    agent any

    environment {
        DOCKER_IMAGE = "dineshbabum2903/mvn"
```

```

    DOCKER_TAG = "latest"
    DOCKER_CREDENTIALS_ID = "docker"
    GITHUB_CREDENTIALS_ID = "github_seccred"
    KUBECONFIG = "/var/lib/jenkins/.kube/config"
    MAVEN_HOME = "/opt/maven" // Set the correct Maven path
}

stages {
    stage('Checkout Code') {
        steps {
            git credentialsId: GITHUB_CREDENTIALS_ID, url:
'https://github.com/dineshbabum2932005/spring-boot-app.git', branch: 'main'
        }
    }

    stage('Build Application') {
        steps {
            script {
                sh "${MAVEN_HOME}/bin/mvn clean package -DskipTests"
            }
        }
    }

    stage('Run Maven Tests') {
        steps {
            script {
                catchError(buildResult: 'SUCCESS', stageResult: 'FAILURE') {
                    sh "${MAVEN_HOME}/bin/mvn test"
                }
            }
        }
    }

    stage('Build Docker Image') {
        steps {
            script {
                sh "docker build -t ${DOCKER_IMAGE}:${DOCKER_TAG} ."
            }
        }
    }

    stage('Push Docker Image') {
        steps {
            withDockerRegistry(credentialsId: DOCKER_CREDENTIALS_ID, url: "") {
                sh "docker push ${DOCKER_IMAGE}:${DOCKER_TAG}"
            }
        }
    }
}

```

```

// Uncomment this stage when Kubernetes deployment is ready
// stage('Deploy to Kubernetes') {
//   steps {
//     script {
//       sh """
//         chmod +x scripts/deploy.sh
//         ./scripts/deploy.sh
//       """
//     }
//   }
// }

post {
  success {
    echo "✅ Deployment Successful!"
  }
  failure {
    echo "❌ Deployment Failed!"
  }
}
}

```

Activities Brave Web Browser Mar 22 12:13

Tools [Jenkins] mvn-pipeline Manage Jenkins DNSDumpster dineshbabum29 Upgrade Maven (no subject) - din dineshbabum29 dineshbabum29 PetClinic: a Spr dineshbabum29

localhost:8080/job/mvn-pipeline/

Jenkins

Dashboard > mvn-pipeline

Status ❌ mvn-pipeline [Add description](#)

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Stages

Rename

Pipeline Syntax

Builds

Filter

Today

#4 11:56

#3 11:17

Stage View

Average stage times: (full run time: ~7min 21s)

	Checkout Code	Build Application	Run Maven Tests	Build Docker Image	Push Docker Image	Declarative: Post Actions
11:56 No Changes	3s	31s	30s	46s	39s	485ms
11:17 No Changes	2s	1min 28s	1min 31s	2min 18s	1min 56s	394ms
11:15 No Changes	1s	1s	545ms	457ms	516ms	674ms
11:15 No Changes	7s	3s	520ms	623ms	584ms	387ms

Permalinks

- Last build (#4), 5 min 25 sec ago
- Last failed build (#3), 44 min ago
- Last unsuccessful build (#3), 44 min ago
- Last completed build (#3), 44 min ago

REST API Jenkins 2.492.2

Dashboard > mvn-pipeline > #4

Status **#4 (22 Mar 2025, 11:56:30)** [Add description](#) [Keep this build forever](#)

Started by user **dineshbabum** Started 17 min ago
Took **7 min 21 sec**

This run spent:

- 98 ms waiting:
- 7 min 21 sec build duration;
- 7 min 21 sec total from scheduled to completion.

git Revision: 3237c0ab6d3aeb4ece0d01195572ed76ca2f7f74
Repository: <https://github.com/dineshbabum2932005/spring-boot-app.git>
refs/remotes/origin/main

No changes.

REST API Jenkins 2.492.2

After build:

`docker ps -a` `docker run -it dineshbabum2903/mvn:latest /bin/bash`

```

apt install maven
Please ask your administrator.
dineshbabum@dineshbabum:~$ cd /root
sudo tar -xvzf apache-maven-3.9.6-bin.tar.gz
bash: cd: /root: Permission denied
[sudo] password for dineshbabum:
dineshbabum is not in the sudoers file. This incident will be reported.
dineshbabum@dineshbabum:~$ su
Password:
su: Authentication failure
dineshbabum@dineshbabum:~$ su
Password:
root@dineshbabum:/home/dineshbabum# cd -
root@dineshbabum:~# cd -
root@dineshbabum:~# cd -
root@dineshbabum:~# exit
exit
dineshbabum@dineshbabum:~$ sudo apt remove maven -y
sudo apt autoremove -y
[sudo] password for dineshbabum:
dineshbabum is not in the sudoers file. This incident will be reported.
[sudo] password for dineshbabum:
dineshbabum is not in the sudoers file. This incident will be reported.
dineshbabum@dineshbabum:~$ sudo apt remove maven -y
[sudo] password for dineshbabum:
dineshbabum is not in the sudoers file. This incident will be reported.
dineshbabum@dineshbabum:~$ su
Password:
root@dineshbabum:/home/dineshbabum# ^C
root@dineshbabum:/home/dineshbabum# docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED    STATUS    PORTS
3c3f70ff992b   kibase/stable:v0.0.46              "/usr/local/bin/entr..." 2 days ago Exited (255) 3 hours ago 127.0.0.1:32768->22/tcp, 127.0.0.1:32769->2376/tcp, 127.0.0.1:32770->5000/tcp, 127.0.0.1:32
771-99443/tcp, 127.0.0.1:32772->32443/tcp minikube                 2 days ago Exited (255) 2 days ago 0.0.0.0:3001->3000/tcp, [::]:3001->3000/tcp
66d2bd2414b4   dineshbabum2903/devops:latest      "docker-entrypoint.s..." 2 days ago Exited (255) 2 days ago
73bf7f53afd    hello-world                         "/hello"                 2 days ago Exited (0) 2 days ago
vibrant_jones

root@dineshbabum:/home/dineshbabum# docker run -it dineshbabum2903/mvn:latest /bin/bash
root@5bc548f8a872:/usr/local/toncat# docker run -d -p 9090:8080 --name ny-app dineshbabum2903/mvn
bash: docker: command not found
root@5bc548f8a872:/usr/local/toncat# ^C
root@5bc548f8a872:/usr/local/toncat# docker run -d -p 8081:8080 --name social_app_container my-app-toncat
bash: docker: command not found
root@5bc548f8a872:/usr/local/toncat# ^C
root@5bc548f8a872:/usr/local/toncat# docker run -d -p 9090:8080 --name social_app_container social-app-toncat
bash: docker: command not found
root@5bc548f8a872:/usr/local/toncat# ^C
root@5bc548f8a872:/usr/local/toncat# docker ps
bash: docker: command not found
root@5bc548f8a872:/usr/local/toncat# ^C
root@5bc548f8a872:/usr/local/toncat#
exit
root@dineshbabum:/home/dineshbabum# docker run -d -p 9090:8080 --name social_app_container dineshbabum2903/mvn
e02e40511f79986cc44815a77154e91edd96518d5977b11d2b0f2ccf561036e
root@dineshbabum:/home/dineshbabum#

```

```
Activities Terminal Mar 22 12:12 root@dieshababu: /home/dieshababu

apache-maven-3.9.6/lib/maven-resolver-connector-basic-1.9.18.jar
apache-maven-3.9.6/lib/maven-resolver-transport-file-1.9.18.jar
apache-maven-3.9.6/lib/maven-resolver-transport-http-1.9.18.jar
apache-maven-3.9.6/lib/httpcore-4.4.16.jar
apache-maven-3.9.6/lib/commons-codec-1.16.0.jar
apache-maven-3.9.6/lib/maven-resolver-transport-wagon-1.9.18.jar
apache-maven-3.9.6/lib/maven-slf4j-provider-3.9.6.jar
apache-maven-3.9.6/lib/jansi-2.4.0.jar
root@dieshababu:/opt# sudo mv apache-maven-3.9.6 maven
root@dieshababu:/opt# sudo nano /etc/profile.d/maven.sh
root@dieshababu:/opt# sudo nano /etc/profile.d/maven.sh
root@dieshababu:/opt# sudo nano /etc/profile.d/maven.sh
root@dieshababu:/opt# sudo chmod +x /etc/profile.d/maven.sh
source /etc/profile.d/maven.sh
root@dieshababu:/opt# mvn -version
Apache Maven 3.9.6 (bc2240f3c744dd6b6ec292b3cd08dccc295161ae)
Maven home: /opt/maven
Java version: 17.0.14, vendor: Ubuntu, runtime: /usr/lib/jvm/java-17-openjdk-and64
Default locale: en_IN, platform encoding: UTF-8
OS name: "linux", version: "6.8.0-52-generic", arch: "amd64", family: "unix"
root@dieshababu:/opt#
exit
dieshababu@dieshababu:~$ mvn --version
Command 'mvn' not found, but can be installed with:
apt install maven
Please ask your administrator.
dieshababu@dieshababu:~$ cd /root
sudo tar -xvzf apache-maven-3.9.6-bin.tar.gz
bash: cd: /root: Permission denied
[sudo] password for dieshababu:
dieshababu is not in the sudoers file. This incident will be reported.
dieshababu@dieshababu:~$ su
Password:
su: Authentication failure
dieshababu@dieshababu:~$ su
Password:
root@dieshababu:/home/dieshababu# cd -
root@dieshababu:~$ cd -
root@dieshababu:~$ cd -
root@dieshababu:~$ exit
exit
dieshababu@dieshababu:~$ sudo apt remove maven -y
sudo apt autoremove -y
[sudo] password for dieshababu:
dieshababu is not in the sudoers file. This incident will be reported.
[sudo] password for dieshababu:
dieshababu is not in the sudoers file. This incident will be reported.
dieshababu@dieshababu:~$ sudo apt remove maven -y
[sudo] password for dieshababu:
dieshababu is not in the sudoers file. This incident will be reported.
dieshababu@dieshababu:~$ su
Password:
root@dieshababu:/home/dieshababu# ^C
root@dieshababu:/home/dieshababu# docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
--------------	-------	---------	---------	--------	-------

