```
Pipeline {
    Agent any
    Tools {
        Maven 'Maven'
        Docker 'docker'
    }
    Stages {
        Stage('Checkout') {
            Steps {
                Checkout scm
            }
        }
        Stage('Build') {
            Steps {
                Sh 'mvn clean package'
            }
        }
        Stage('Test') {
            Steps {
                Sh 'mvn test'
            }
        }
        Stage('Build Docker Image') {
            Steps {
                Sh 'docker build -t myapp .'
            }
        }
        Stage('Push Docker Image') {
            Steps {
```

```
            withCredentials([usernamePassword(credentialsId: 'dockerhub', usernameVariable:
'DOCKER_USERNAME', passwordVariable: 'DOCKER_PASSWORD')]) {

                sh 'docker login -u $DOCKER_USERNAME -p $DOCKER_PASSWORD'

            }

            Sh 'docker tag myapp myusername/myapp:latest'

            Sh 'docker push myusername/myapp:latest'

        }

    }

    Stage('Deploy to Kubernetes') {

        Environment {

            KUBECONFIG = credentials('kubeconfig')

        }

        Steps {

            Sh 'kubectl apply -f kubernetes/deployment.yaml'

            Sh 'kubectl apply -f kubernetes/service.yaml'

        }

    }

  }

}
```