



(a) Docker Repository

```

pipeline {
  agent any

  tools {
    jdk 'jdk17'
    nodejs 'node20'
  }

  stages {
    stage('Clean Workspace') {
      steps {
        script {
          echo "Cleaning workspace..."
          deleteDir() // Deletes everything in the Jenkins workspace before starting
        }
      }
    }

    stage('Git Checkout') {
      steps {
        script {
          echo "Checking out the latest code from GitHub..."
          git branch: 'main',
              credentialsId: 'github_secured3',
              url: 'https://github.com/kaviyasrinivasan/devops-class.git'
        }
      }
    }

    stage('Install Node') {
      steps {
        script {
          echo "Checking for package.json and installing dependencies..."
        }
      }
    }
  }
}

```

```

        sh ""
        if [ -f package.json ]; then
            echo "package.json found. Running npm install..."
            npm install
        else
            echo "ERROR: package.json is missing. Skipping npm install."
            exit 1
        fi
    ""
}
}

stage('Docker Build & Push') {
    steps {
        script {
            echo "Building and pushing Docker image..."
            withDockerRegistry(credentialsId: 'docker3', toolName: 'docker') {
                def imageName = "kaviasrinivasan/my-repository"
                def tag = "latest"
                sh "docker build -t ${imageName} ."
                sh "docker tag ${imageName} ${imageName}:${tag}"
                sh "docker push ${imageName}:${tag}"
            }
        }
    }
}

stage('Deploy Docker Container') {
    steps {
        script {
            echo "Stopping and removing any existing containers..."
            sh "docker stop devops_container || true"
            sh "docker rm devops_container || true"

            echo "Deploying new Docker container..."
            sh "docker run -d --name devops_container -p 4001:4000 kaviasrinivasan/my-
repository:latest"
        }
    }
}
}
}
}

```

Jenkins Dashboard > task3

task3 Add description

Stage View

Average stage times: (full run time: ~3min 48s)

	Declarative: Tool Install	Clean Workspace	Git Checkout	Install Node	Docker Build & Push	Deploy Docker Container
#4	214ms	3s	839ms	1min 30s	2min 5s	653ms
#3	274ms	2s	671ms	1min 23s	2min 19s	1s
#2	193ms	5s	932ms	1min 42s	2min 30s failed	94ms failed
#1	175ms	2s	916ms	1min 26s	1min 27s failed	97ms failed

Permalinks

Last build (#3), 6 min 19 sec ago

(b) Build and run

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(c) Localhost