

```

pipeline {
  agent {

    label 'aws-linux2'

  }
  environment {
    MAIN_PORT = '3000'
    DEV_PORT = '3001'
  }
  tools {nodejs "node"}
  stages {
    stage('Checkout') {
      steps { checkout scm }

    }
    stage('Build') {
      steps {
        timeout(time: 2, unit: 'MINUTES') {
          sh 'npm install --lts'
        }
      }

    }

    stage('Test') {
      steps {
        sh 'npm test'

      }

    }

    stage('Generate Logo main') {
      when { branch 'main' }
      steps {
        sh label: 'Generate Logo', script: ""
cat <<EOF > main_logo.svg
<svg width="150" height="150" xmlns="http://www.w3.org/2000/svg"> \
<circle cx="75" cy="75" r="60" fill="#25f363" /> </svg>
EOF
        ""
        sh 'cp main_logo.svg src/logo.svg'

      }

    }

    stage('Build Docker Image nodemain:v1.0') {
      when { branch 'main' }
      steps {
        sh 'docker build -t nodemain:v1.0 .'

      }

    }

    stage('Generate Logo dev') {
      when { branch 'dev' }
      steps {
        sh label: 'Generate Logo', script: ""
cat <<EOF > dev_logo.svg

```

```
<svg width="150" height="150" xmlns="http://www.w3.org/2000/svg"> \
<circle cx="75" cy="75" r="60" fill="#F36D25" /> </svg>
```

EOF

```
'''
```

```
sh 'cp dev_logo.svg src/logo.svg'
```

```
}
```

```
}
```

```
stage('Build Docker Image nodedev:v1.0') {
```

```
  when { branch "dev" }
```

```
  steps {
```

```
    sh 'docker build -t nodedev:v1.0 .'
```

```
}
```

```
}
```

```
stage('Deploy dev') {
```

```
  when { branch 'dev' }
```

```
  steps {
```

```
    sh "docker run -d -p ${env.DEV_PORT}:3000 nodedev:v1.0"
```

```
}
```

```
}
```

```
stage('Deploy main') {
```

```
  when { branch 'main' }
```

```
  steps {
```

```
    sh "docker run -d -p ${env.MAIN_PORT}:3000 nodemain:v1.0"
```

```
}
```

```
}
```

```
}
```

```
}
```



CICD

CICD

Disable Multibranch Pipeline

Branches (2)

S	W	Name ↓	Last Success	Last Failure	Last Duration	
		dev	20 min #41	11 hr #40	6 min 52 sec	
		main	20 min #47	11 hr #43	6 min 44 sec	

Pipeline main

Full project name: CICD/main

Stage View

		Declarative: Checkout SCM	Declarative: Tool Install	Checkout	Build	Test	Generate Logo main	Build Docker Image nodemain:v1.0	Generate Logo main
Average stage times: (Average <u>full</u> run time: ~5min 6s)		13s	4s	1s	1min 11s	5s	2s	1min 32s	0s
#47	Apr 15 12:47 2 commits	19s	6s	1s	1min 32s	5s	2s	2min 2s	0s

Declarative: Checkout CM	Declarative: Tool Install	Checkout	Build	Test	Generate Logo main	Build Docker Image nodemain:v1.0	Generate Logo dev	Build Docker Image nodedev:v1.0	Deploy dev	Deploy nain
3s <div></div>	4s <div></div>	1s <div></div>	1min 11s <div></div>	5s <div></div>	2s <div></div>	1min 32s <div></div>	0ms <div></div>	0ms <div></div>	0ms <div></div>	2s <div></div>
9s	6s	1s	1min 32s	5s	2s	2min 2s				2s



Welcome to React












To get started, edit `src/App.js` and save to reload.

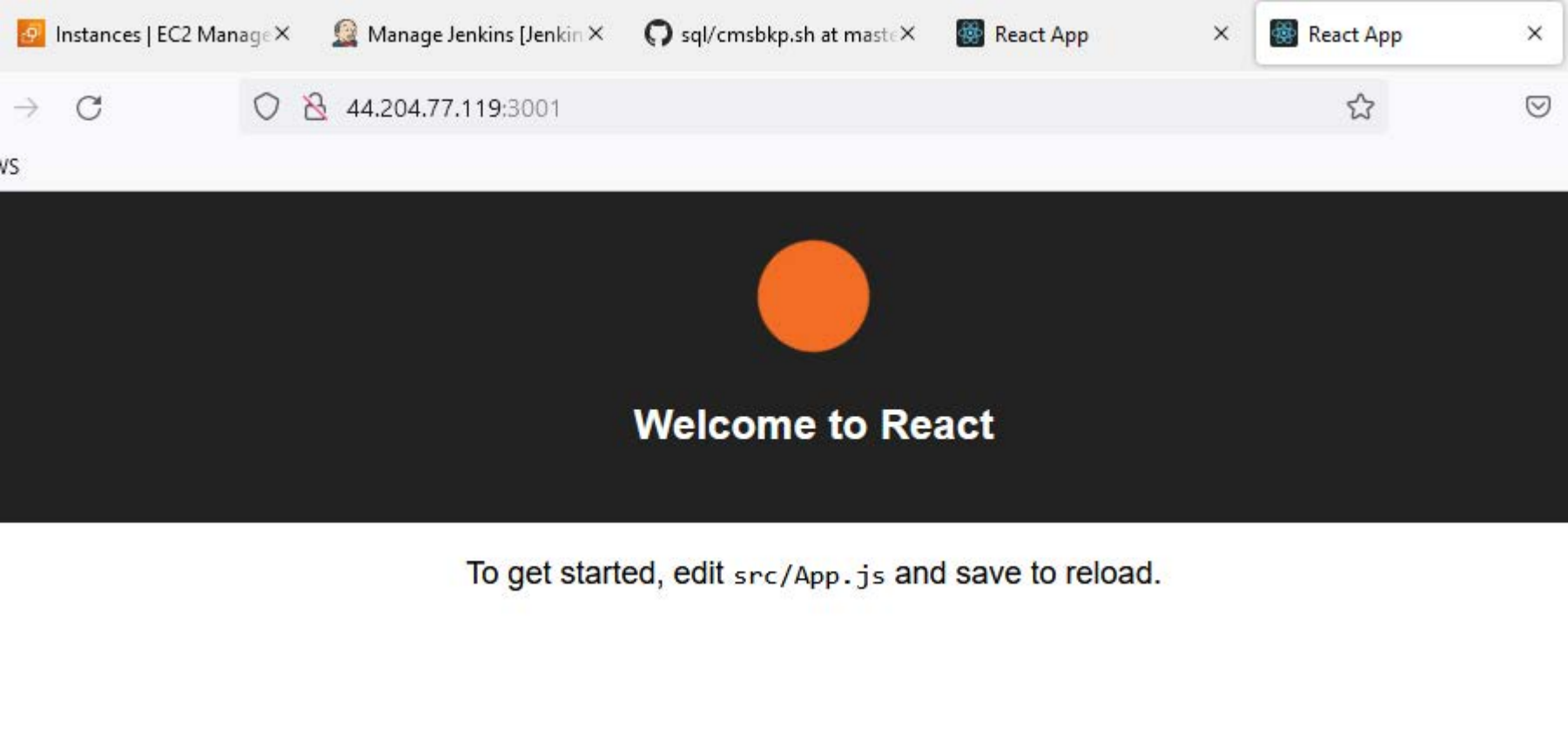
Pipeline dev

Full project name: CICD/dev

Stage View

		Declarative: Checkout SCM	Declarative: Tool Install	Checkout	Build	Test	Generate Logo main	Build Docker Image nodemain:v1.0	Generate Logo dev
Average stage times: (Average <u>full</u> run time: ~6min 52s)		13s	4s	1s	1min 12s	5s	0ms	0ms	2s
#41	Apr 15 12:47 2 commits	19s	7s	1s	1min 33s	7s			2s

Declarative: Checkout CM	Declarative: Tool Install	Checkout	Build	Test	Generate Logo main	Build Docker Image nodemain:v1.0	Generate Logo dev	Build Docker Image nodedev:v1.0	Deploy dev	Deploy nain
13s 	4s 	1s 	1min 12s 	5s 	0ms 	0ms 	2s 	1min 41s 	1s 	39ms 
19s	7s	1s	1min 33s	7s			2s	2min 39s	2s	



Welcome to React

To get started, edit `src/App.js` and save to reload.

<input type="checkbox"/>	ec2-plugin-slave2	i-04f9e38d410286997	Running		t2.micro
<input checked="" type="checkbox"/>	ec2-plugin-slave2	i-0b882ec9bf4802f54	Running		t2.micro

Instance: i-0b882ec9bf4802f54 (ec2-plugin-slave2)



[Details](#) |
 [Security](#) |
 [Networking](#) |
 [Storage](#) |
 [Status checks](#) |
 [Monitoring](#) |
 [Tags](#)

▼ Instance summary [Info](#)

Instance ID

i-0b882ec9bf4802f54 (ec2-plugin-slave2)

Public IPv4 address

44.204.77.119 | [open address](#)

Private IPv4 addresses

172.31.83.10

```

pipeline {
  agent {
    label 'aws-linux2'
  }
  environment {
    MAIN_PORT = '3000'
    DEV_PORT = '3001'
  }
  tools {nodejs "node"}
  stages {
    stage('Checkout') {
      steps {
        checkout scm
      }
    }
    stage('Build') {
      steps {
        timeout(time: 2, unit: 'MINUTES') {
          sh 'npm install'
        }
      }
    }
    stage('Test') {
      steps {
        sh 'npm test'
      }
    }
    stage('Set branch name for conditionals') {
      steps {
        script {
          def commit = checkout scm
          // set BRANCH_NAME to make when { branch } syntax work without multibranch job
          env.BRANCH_NAME = commit.GIT_BRANCH.replace('origin/', '')

          //actually proceeding to next stages ...
        }
      }
    }
    stage('Generate Logo main') {
      when {
        branch 'main'
      }
      steps {
        sh label: 'Generate Logo', script: '''
cat <<EOF > main_logo.svg
<svg width="150" height="150" xmlns="http://www.w3.org/2000/svg"> \
<circle cx="75" cy="75" r="60" fill="#25f363" /> </svg>
EOF
'''
        sh 'cp main_logo.svg src/logo.svg'
      }
    }
  }
}

```

```

}
stage('Build Docker Image nodemain:v1.0') {
    when { branch 'main' }
    steps {
        sh 'docker build -t nodemain:v1.0 .'

    }

}

}
stage('Generate Logo dev') {
    when { branch 'dev' }
    steps {
        sh label: 'Generate Logo', script: ""
cat <<EOF > dev_logo.svg
<svg width="150" height="150" xmlns="http://www.w3.org/2000/svg"> \
<circle cx="75" cy="75" r="60" fill="#F36D25" /> </svg>
EOF
        ""
        sh 'cp dev_logo.svg src/logo.svg'

    }

}

}
stage('Build Docker Image nodedev:v1.0') {
    when { branch 'dev' }
    steps {
        sh 'docker build -t nodedev:v1.0 .'

    }

}

}
stage('Deploy dev') {
    when { branch 'dev' }
    steps {
        timeout(time: 5, unit: 'MINUTES') {
            input message: 'Deploy?', ok: 'Yes'

        }
        sh 'docker run -d -p ${DEV_PORT}:3000 nodedev:v1.0'

    }

}

}
stage('Deploy main') {
    when { branch 'main' }
    steps {
        timeout(time: 5, unit: 'MINUTES') {
            input message: 'Deploy?', ok: 'Yes'

        }
        sh 'docker run -d -p ${MAIN_PORT}:3000 nodemain:v1.0'

    }


}

}

}
}

```

CD_deploy_manual

 Add description

Disable Project

W

Average stage times:
Total time: ~8min 20s)

1
Commit

Declarative: Checkout SCM	Declarative: Tool Install	Checkout	Build	Test	Set branch name for conditionals	Generate Logo main	Build Docker Image nodemain:v1.0	Generate Logo d
21s 	6s 	1s 	1min 24s 	5s 	1s 	2s 	1min 46s 	0s 
21s	6s	1s	1min 24s	5s	1s	2s	1min 46s	


ve: all	Checkout	Build	Test	Set branch name for conditionals	Generate Logo main	Build Docker Image nodemain:v1.0	Generate Logo dev	Build Docker Image nodedev:v1.0	Deploy dev	Deploy main
	1s	1min 24s	5s	1s	2s	1min 46s	0ms	0ms	0ms	595ms
	1s	1min 24s	5s	1s	2s	1min 46s				595ms (paused for 29s)

Deploy?



Yes


Abort

 Add description

Disable Project

Checkout	Build	Test	Set branch name for conditionals	Generate Logo main	Build Docker Image nodemain:v1.0	Generate Logo dev	Build Docker Image nodedev:v1.0	Deploy dev	Deploy main
1s 	1min 24s 	5s 	1s 	2s 	1min 46s 	0ms 	0ms 	0ms 	2s 
1s	1min 24s	5s	1s	2s	1min 46s				2s (paused for 56s)

Pipeline CD_deploy_manual

 Add description

Disable Project

Stage View

Average stage times:

(Average full run time: ~7min 51s)

Declarative: Checkout SCM	Declarative: Tool Install	Checkout	Build	Test	Set branch name for conditionals	Generate Logo main	Build Do Image nodemain
21s	6s	1s	1min 30s	5s	1s	2s	1min 4
21s	7s	1s	1min 35s	4s	1s		
21s	6s	1s	1min 24s	5s	1s	2s	1min 4

#72

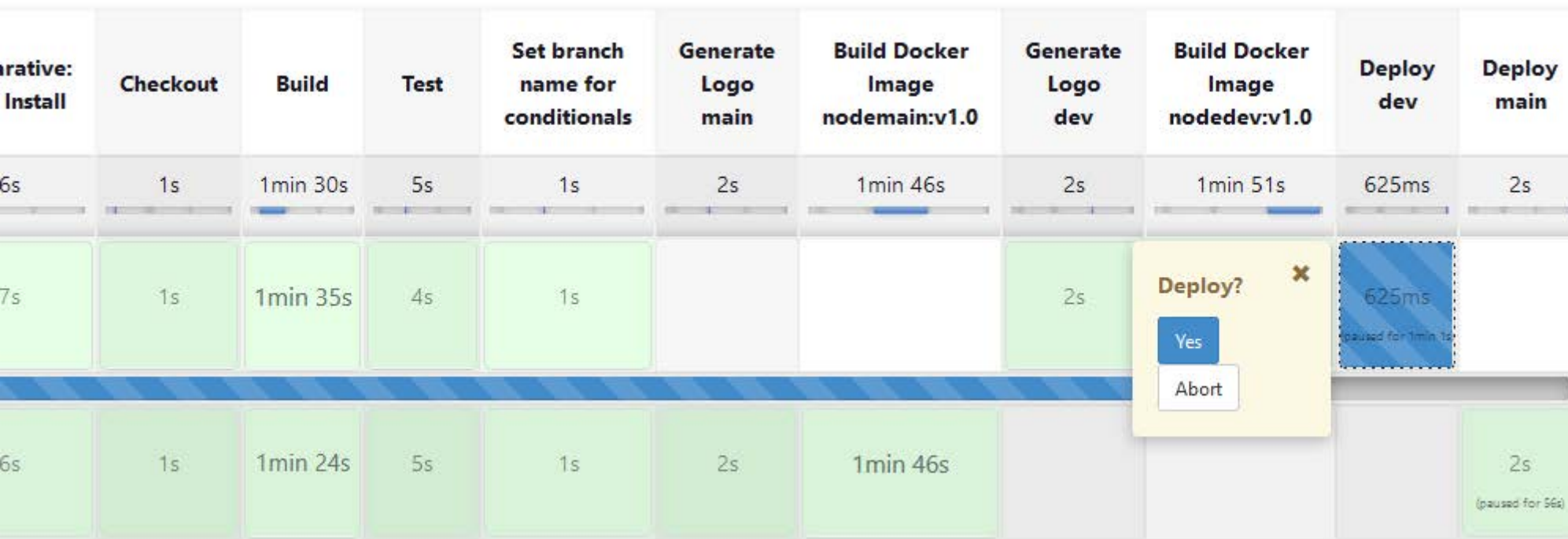
Apr 15
13:23


26
commits

#71

Apr 14
21:50

1
commit



 Add description

Disable Project

Comparative: Install	Checkout	Build	Test	Set branch name for conditionals	Generate Logo main	Build Docker Image nodemain:v1.0	Generate Logo dev	Build Docker Image nodedev:v1.0	Deploy dev	Deploy main
6s	1s	1min 30s	5s	1s	2s	1min 46s	2s	1min 51s	1s	2s
7s	1s	1min 35s	4s	1s			2s	1min 51s	1s (paused for 1min 39s)	
6s	1s	1min 24s	5s	1s	2s	1min 46s				2s