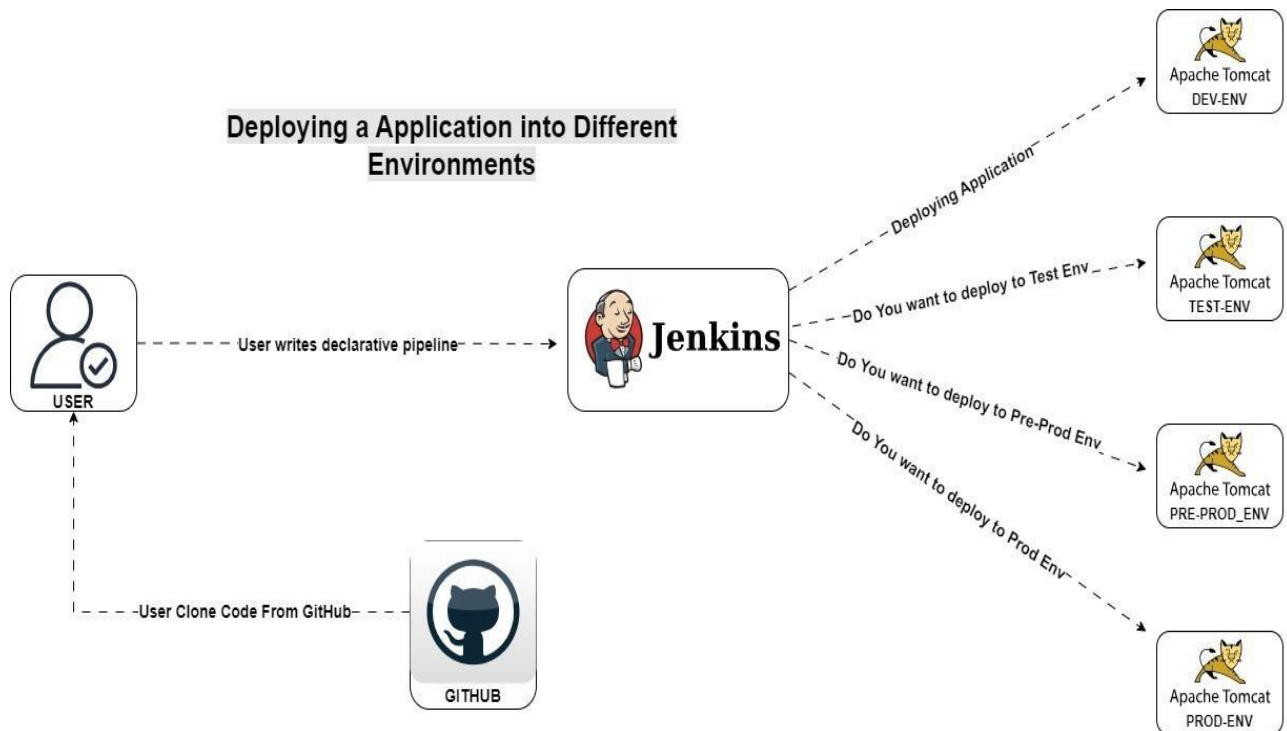


# PROJECT 01

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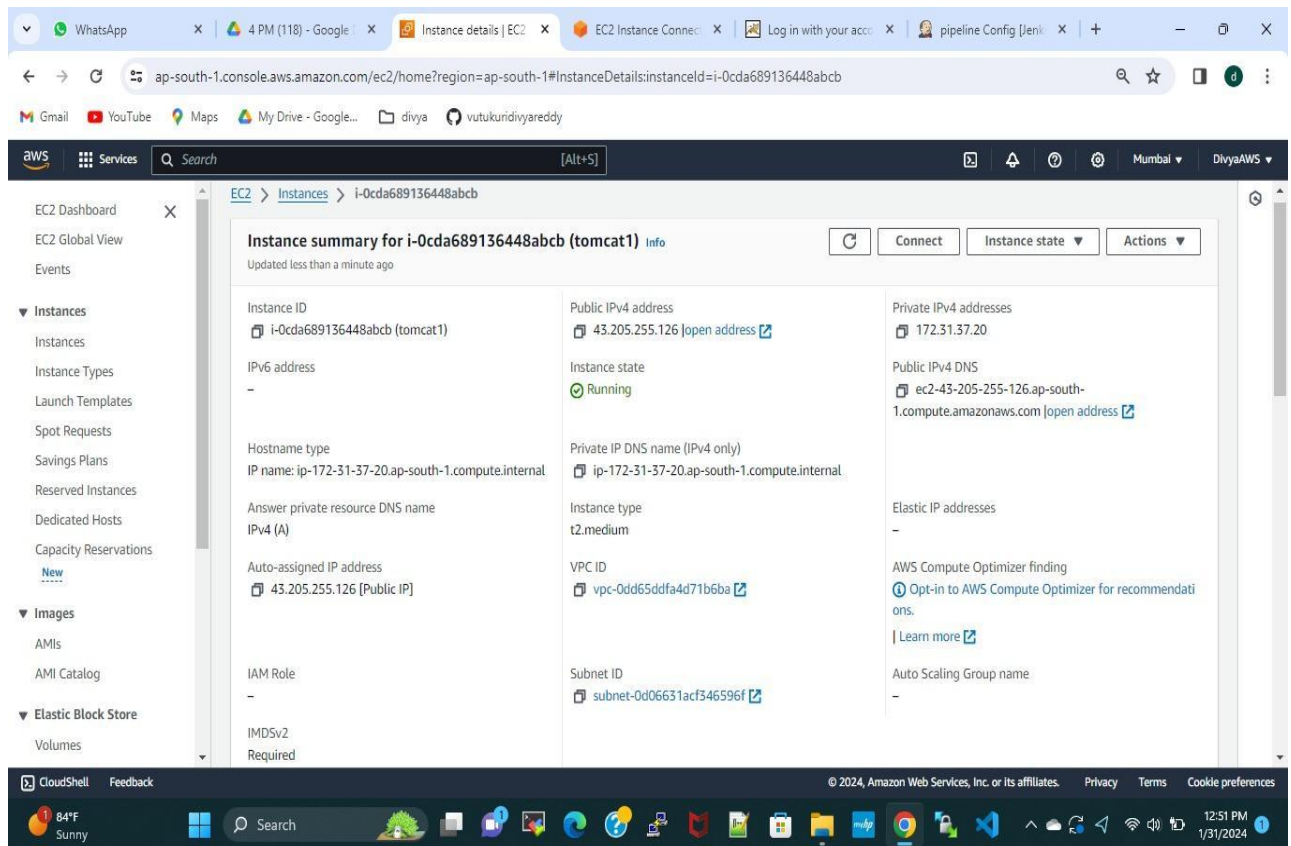


## Deploying an application into different environments By using Jenkins

This Documentation Provides step-by-step instructions on how to set up a Jenkins job to deploy a java based web application into different tomcat servers.

### 1.Launch EC2 Instances

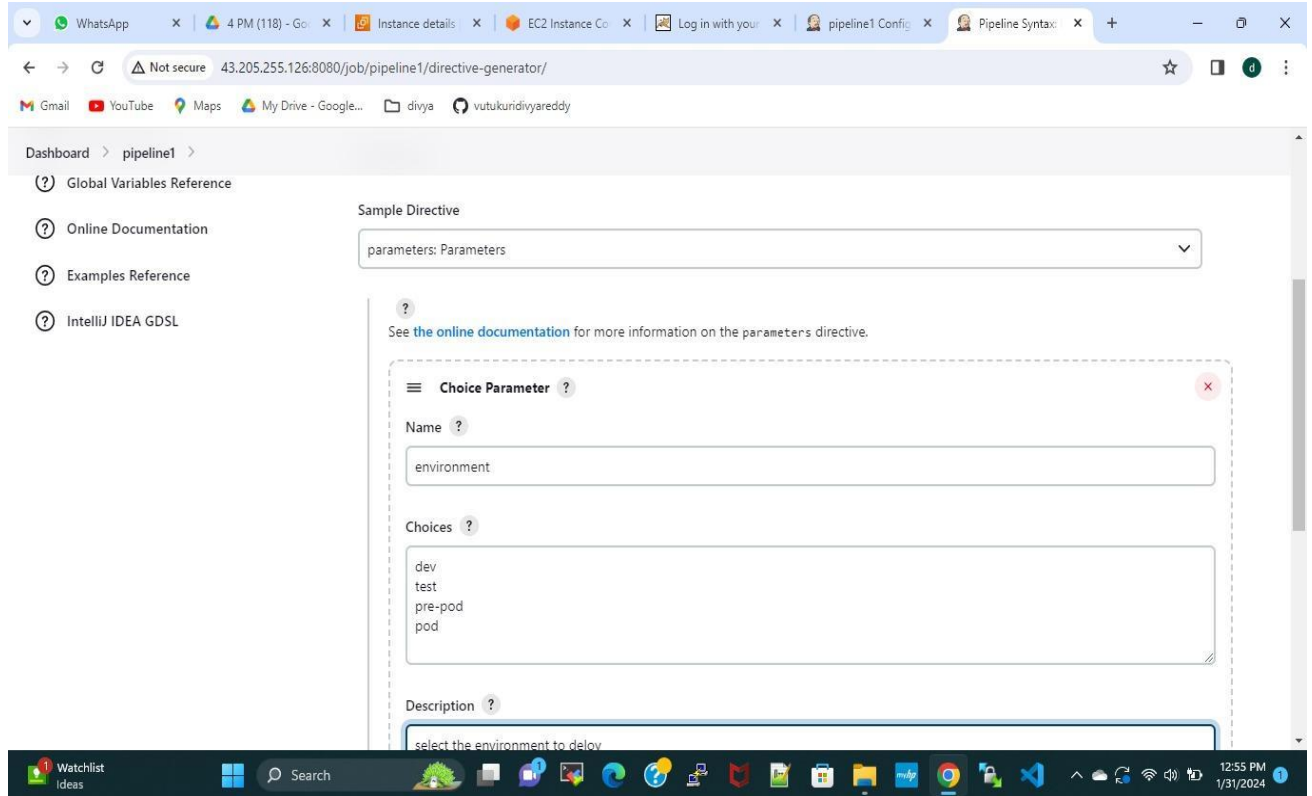
- Log in to the AWS Management Console.
- Navigate to the EC2 dashboard.
- Click " launch instances".



## Steps :

- Tomcat server installed and running
- Jenkins plugins installed : “Deploy to container plugin”
- Create a Jenkins server installed and configured.
- snapshot of the above server by using AMI.
- By using AMI u have to create 3 Tomcat servers.
- Open Jenkins web server and create a new job.
- Configure the source code repository and add build steps as needed.
- Default portnumber for Jenkins is 8080
- <https://pulicip:8080> this is Jenkins server web url

## Howto add parameters to Jenkins pipeline



## Jenkins Pipeline

```
pipeline {  
  agent any  
  parameters {  
    choice choices: ['dev', 'test', 'pre-pod', 'pod'], description: 'select the environment to  
deploy to', name: 'environment'  
  }  
  stages {  
    stage('git clone') {
```

```
    steps {
        checkout scmGit(branches: [[name: '*/master']], extensions: [],
userRemoteConfigs: [[url: 'https://github.com/vutukuridivyareddy/raviLogin.git']])
    }
}

stage('validate') {
    steps {
        sh 'mvn validate'
    }
}

stage('compile') {
    steps {
        sh 'mvn compile'
    }
}

stage('test') {
    steps {
        sh 'mvn test'
    }
}

stage('package')
steps {
    sh 'mvn package'
}

stage('deploy to tomcat server01') {
    when {
        expression {
            params.environment == 'dev'
        }
    }
}
```

```

    steps {
        deploy adapters: [tomcat9(credentialsId: 'tomcat', path: '', url: '65.2.126.9:8088/'),
contextPath: null, war: '*/.war'
        }
    }
    stage('deploy to tomcat server02') {
        when {
            expression {
                params.environment == 'test'
            }
        }
        steps {
            deploy adapters: [tomcat9(credentialsId: 'tomcat', path: '', url:
'15.206.157.122:8088/'), contextPath: null, war: '*/.war'
            }
        }
        stage('deploy to tomcat server03') {
            when {
                expression {
                    params.environment == 'pre-pod'
                }
            }
        }
        steps {
            deploy adapters: [tomcat9(credentialsId: 'tomcat', path: '', url: '3.6.41.114:8088/'),
contextPath: null, war: '*/.war'
            }
        }
        stage('deploy to tomcat server04') {
            when {
                expression {
                    params.environment == 'pod'
                }
            }
        }
    }

```

```

    }

    steps {

        deploy adapters: [tomcat9(credentialsId: 'tomcat', path: '', url:
'13.233.183.149:8088/']], contextPath: null, war: '*/*.war'

    }

}

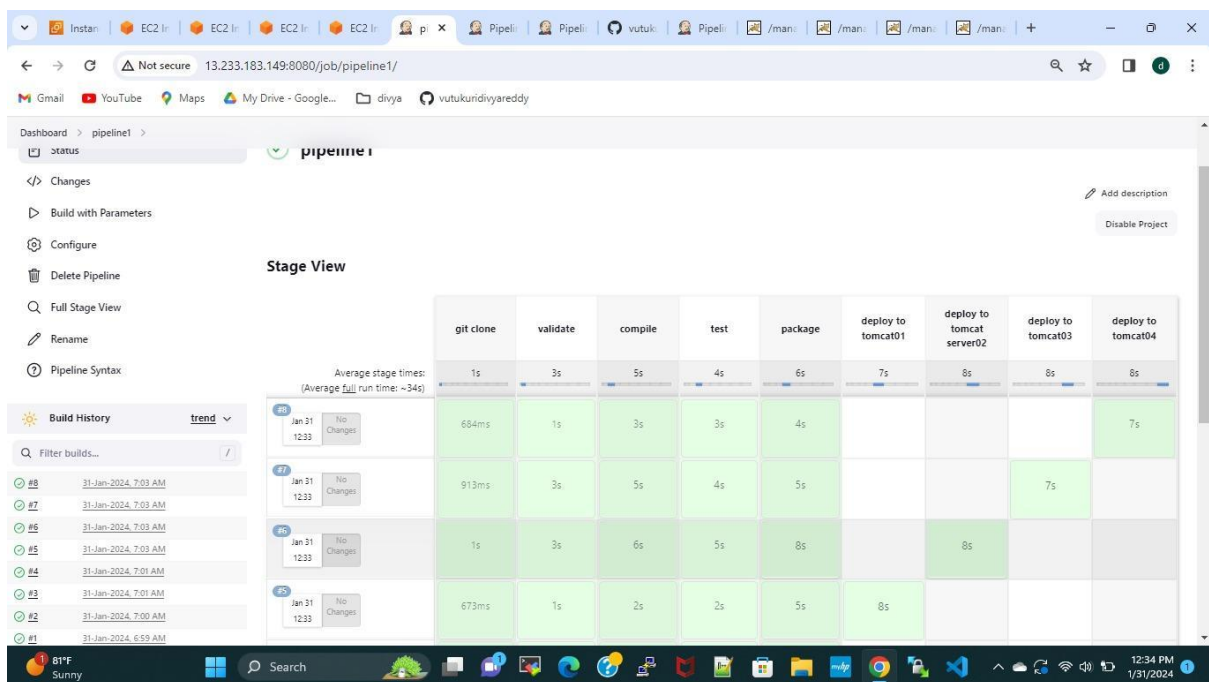
}

}

}

```

## After building Jenkins stage view



## Tomcat server01 webapplication Manager

Tomcat Web Application Manager

Message: OK

Manager

List Applications HTML Manager Help Manager Help Server Status

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/servletLogin-2.0	None specified	Account Registration Web Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Deploy

## Tomcat server02 web Application Manager

Tomcat Web Application Manager

Message: OK

Manager

List Applications HTML Manager Help Manager Help Server Status

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/servletLogin-2.0	None specified	Account Registration Web Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Deploy

## Tomcat server03 Web Application Manager

Browser tabs: Instan..., EC2 In..., EC2 In..., EC2 In..., EC2 In..., pipeli..., Pipeli..., Pipeli..., vutuk..., Pipeli..., /man..., /r, /man..., /man..., +

Address bar: Not secure 3.6.41.114:8088/manager/html

Message: OK

### Tomcat Web Application Manager

Manager

List Applications HTML Manager Help Manager Help Server Status

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/raviLogin-2.0	None specified	Account Registration Web Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Deploy

81°F Sunny 12:35 PM 1/31/2024

Browser tabs: WhatsApp, 4 PM (118) - Google Drive, Instance details | EC2 | ap-s..., EC2 Instance Connect | ap-s..., Log in with your account, +

Address bar: Not secure 43.205.255.126:8088/raviLogin-2.0/login

### Ravi web project

Username

Password

Log In

Create an account

84°F Sunny 12:47 PM 1/31/2024