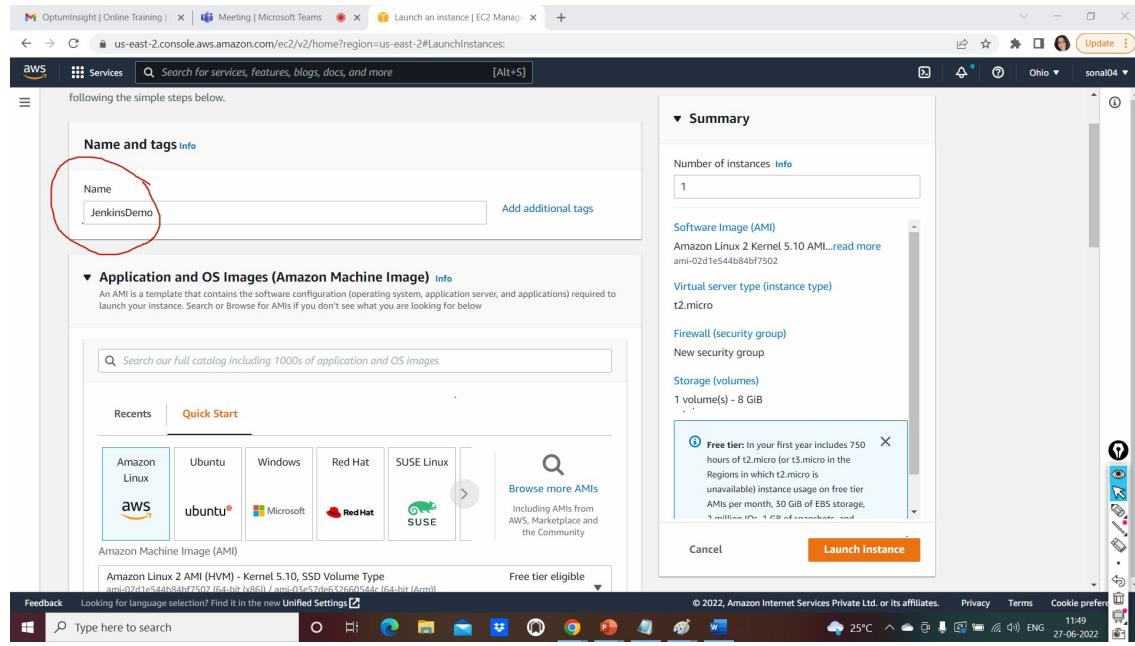


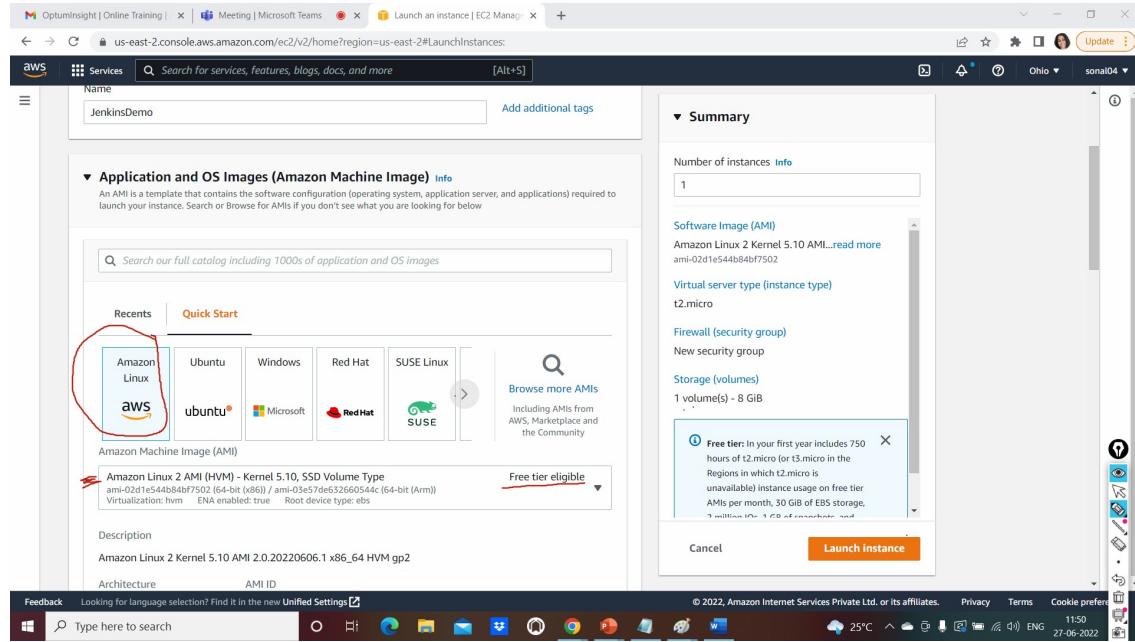
The screenshot shows the AWS EC2 Dashboard. On the left, a sidebar lists navigation options like EC2 Dashboard, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main area displays 'Resources' for the US East (Ohio) Region, showing 0 instances running, 5 instances total, 0 placement groups, and 5 volumes. A callout box provides information about launching Microsoft SQL Server Always On availability groups. Below this is the 'Launch instance' section, which includes a 'Launch instance' button and a 'Migrate a server' option. To the right, the 'Service health' section shows the region as US East (Ohio) and the status as 'This service is operating normally'. The 'Account attributes' panel on the far right lists supported platforms (VPC), default VPC (vpc-7c49e717), settings, EBS encryption, zones, EC2 Serial Console, default credit specification, and console experiments.

Click on launch Instance

The screenshot shows the 'Launch an instance' wizard. At the top, a message indicates the user has been opted into the new launch experience. A 'Summary' section on the right shows 1 instance being launched. It includes fields for the number of instances, software image (Amazon Linux 2 Kernel 5.10 AMI), virtual server type (t2.micro), firewall (New security group), and storage (1 volume(s) - 8 GiB). A callout box highlights the 'Free tier' offer. The main form on the left allows users to enter a name for the instance (e.g., My Web Server) and select an application and OS image from a catalog. Buttons for 'Recent' and 'Quick Start' are visible at the bottom of the form.



Select the Amazon Machine Image



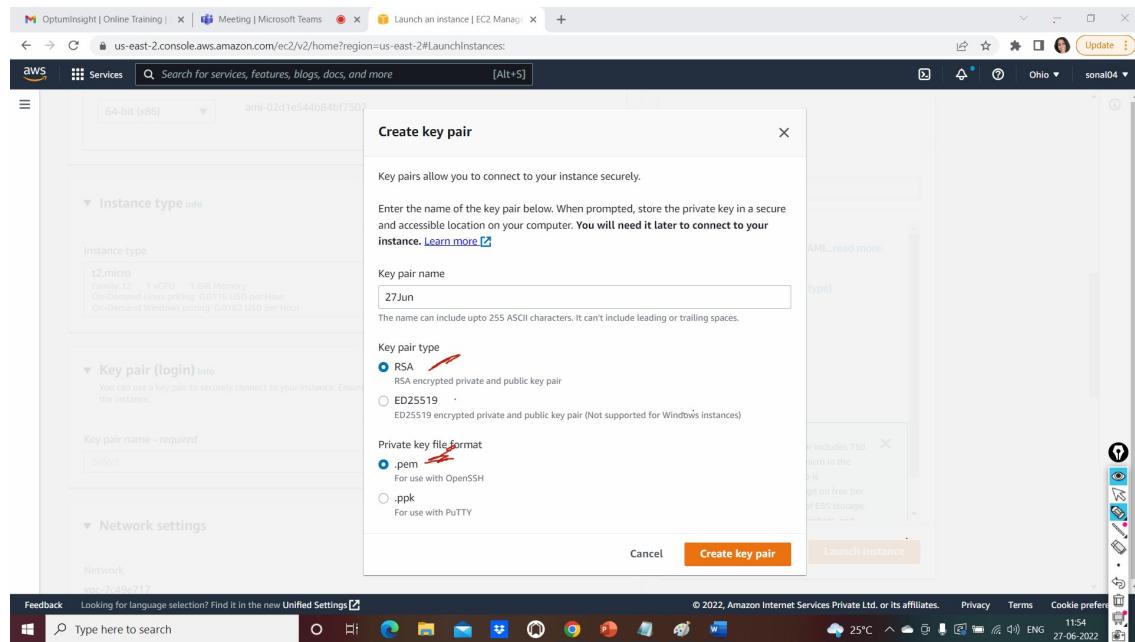
Default t2 micro select as Instance type

The screenshot shows the AWS EC2 Launch Instances wizard. In the 'Instance type' section, the 't2.micro' option is selected. A red circle highlights this selection. A tooltip for 'Free tier' is displayed, stating: 'Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 1 million IOPS & 1 TB of bandwidth and 1 million API requests per month.' Below the instance type, there is a 'Key pair (login) info' section with a note about selecting a key pair before launching. A 'Key pair name - required' dropdown is shown, with a red circle highlighting the 'Select' button. The 'Launch Instance' button is at the bottom right.

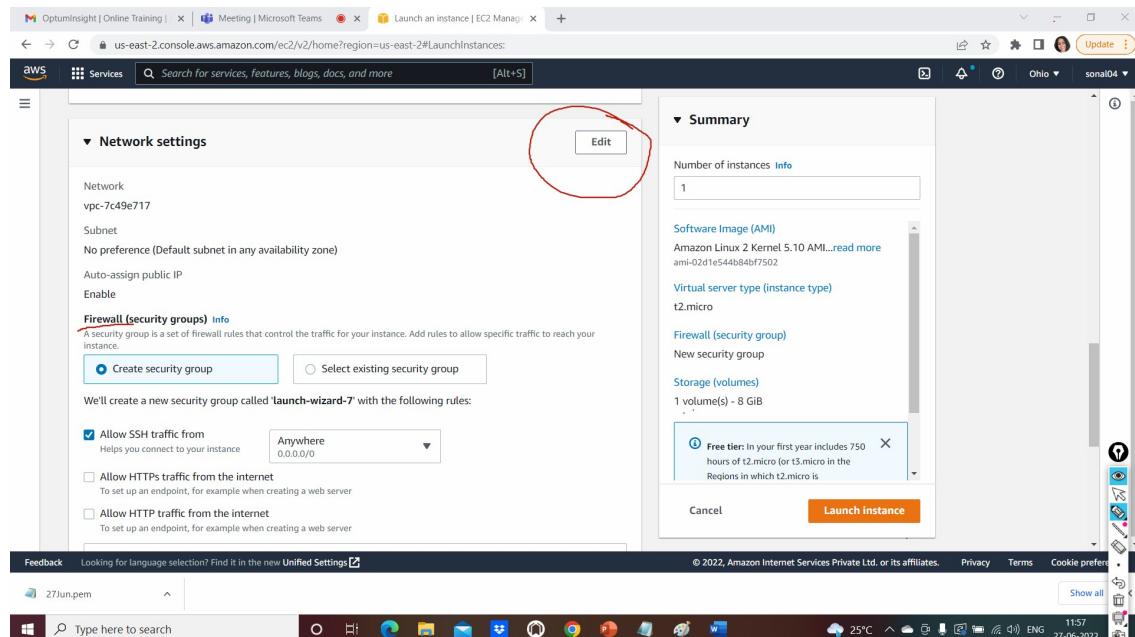
Create a new key pair. Download the key pair in your downloads

Don't change the location of the file. Let it be in downloads folder

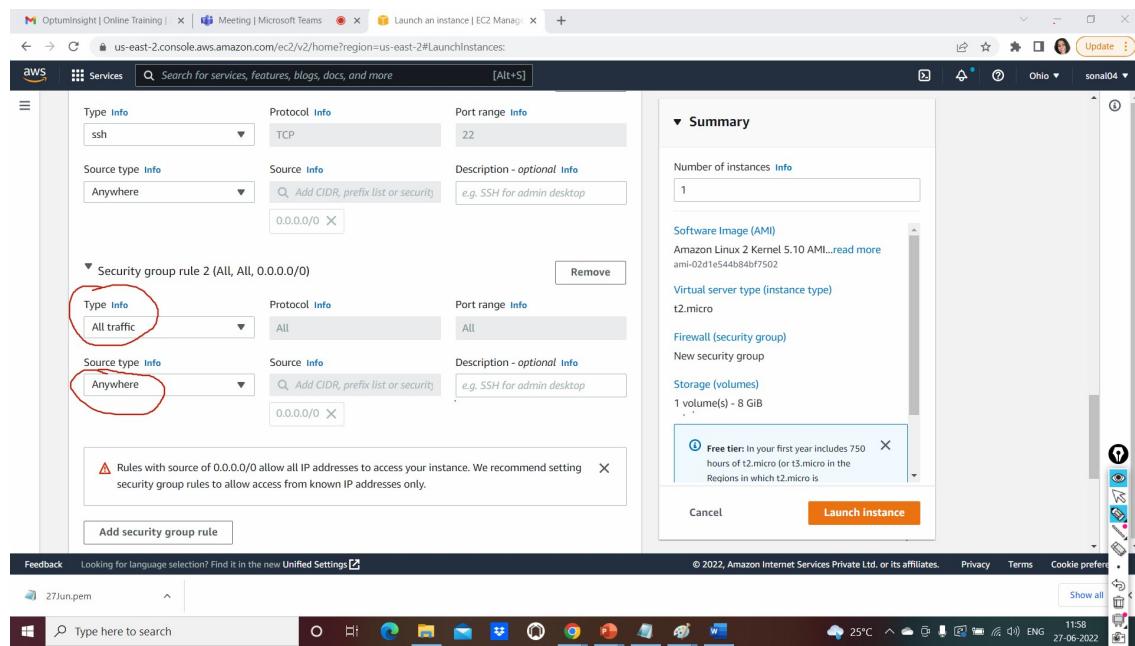
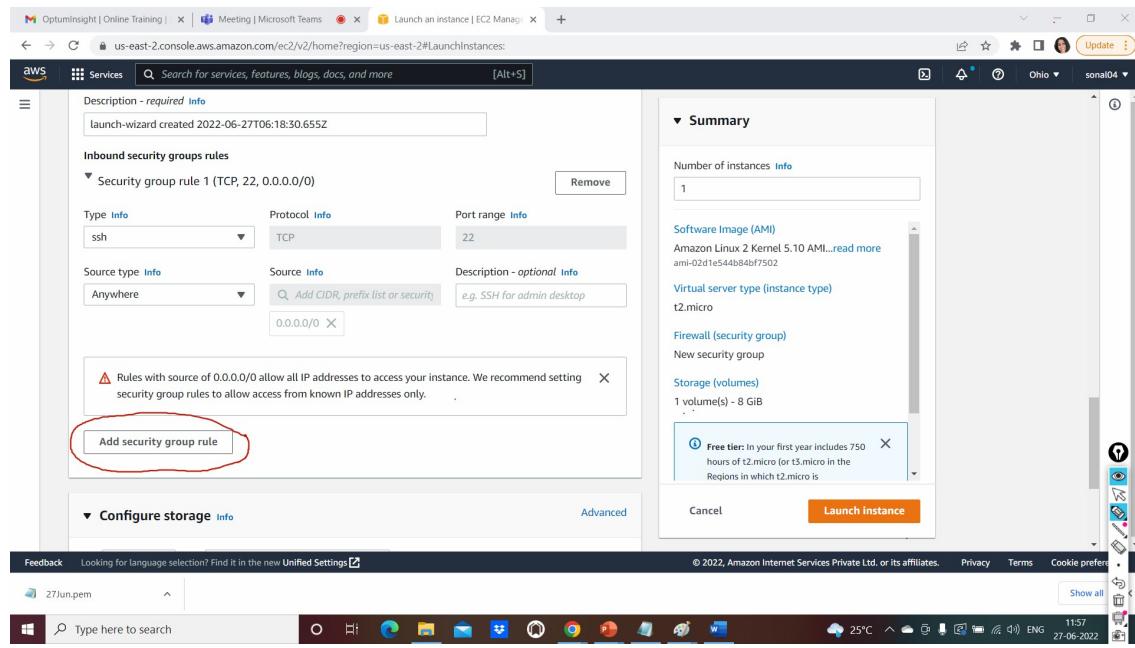
This screenshot shows the same AWS EC2 Launch Instances wizard as the previous one, but with different configuration. The 'Key pair (login)' section is highlighted with a red circle around the 'Create new key pair' button. A tooltip for 'Free tier' is displayed, stating: 'Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 1 million IOPS & 1 TB of bandwidth and 1 million API requests per month.' Below the key pair section, there is a 'Network settings' section with a 'Network' dropdown set to 'VPC-7c49e717'. The 'Launch Instance' button is at the bottom right.



Set up the firewall rule or security group



Scroll down and click add security group rule



Click on launch instance and it will create the instance

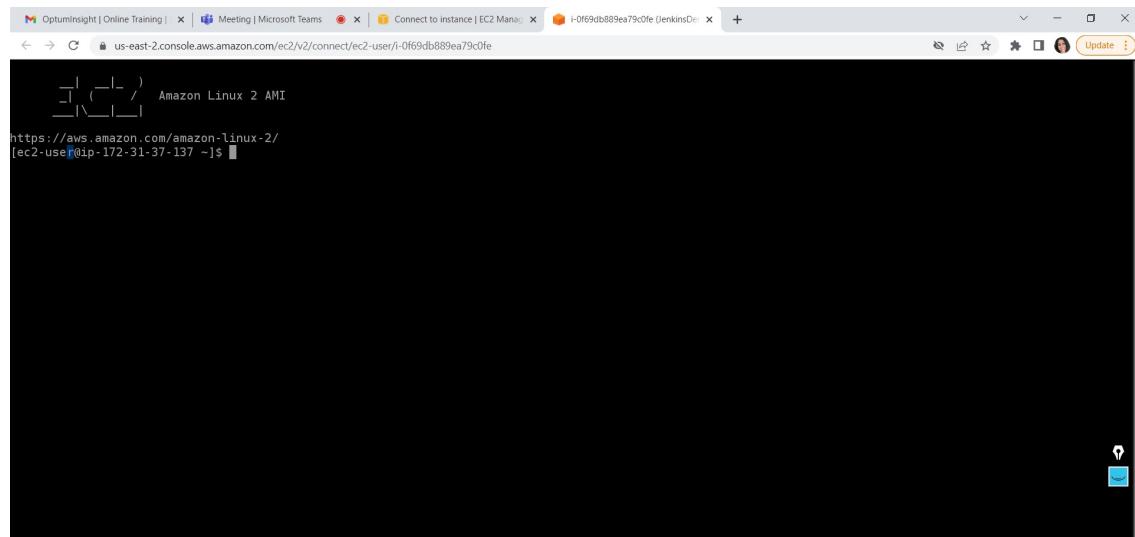
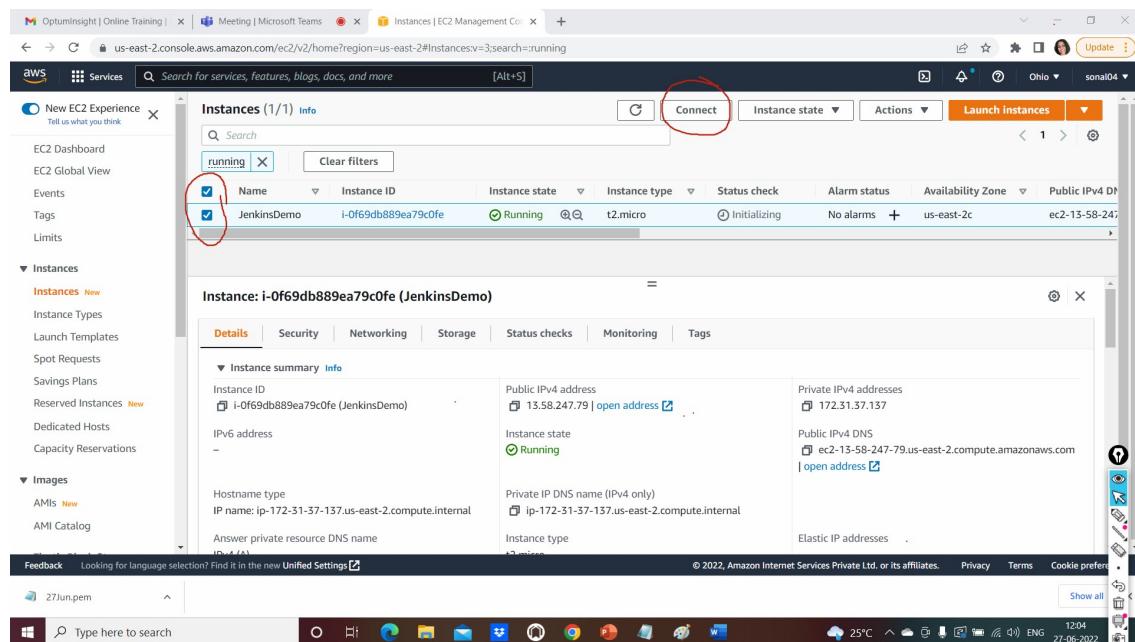
The screenshot shows the AWS EC2 'Launch an instance' success page. At the top, there's a success message: 'Successfully initiated launch of instance (i-0f69db889ea79c0fe)'. Below it is a 'Launch log' button. The main content area is titled 'Next Steps' and includes sections for 'Get notified of estimated charges' (with a link to 'Create billing alerts') and 'How to connect to your instance' (with a link to 'View Instances'). A red oval highlights the 'View all instances' button at the bottom right of this section. The bottom of the page features a feedback bar, copyright information, and a Windows taskbar.

The screenshot shows the AWS EC2 'Instances' page. On the left, a sidebar lists 'New EC2 Experience', 'Instances', 'Images', and other services. The main area displays a table of instances with one entry: 'JenkinsDemo' (Instance ID: i-0f69db889ea79c0fe, Instance state: Running, Instance type: t2.micro, Status check: Initializing). A red oval highlights the 'Select an instance' dropdown menu. The bottom of the page features a feedback bar, copyright information, and a Windows taskbar.

How to connect to the instance

SSH to connect to AWS server using SSH client

Use browser to connect to AWS



j-0f69db889ea79c0fe (JenkinsDemo)

Public IPs: 13.58.247.79 Private IPs: 172.31.37.137

On the Mac machine

Open your terminal

```
cd downloads/
```

```
chmod 400 27Jun.pem
```

SSH command to connect to the aws server from local

```
ssh -i "27Jun.pem" ec2-user@ec2-13-58-247-79.us-east-2.compute.amazonaws.com
```

On windows machine:

```
*****
```

Open command prompt or git bash

```
cd downloads/
```

execute below command

```
ssh -i "27Jun.pem" ec2-user@ec2-13-58-247-79.us-east-2.compute.amazonaws.com
```

give yes

you will connect to the instance

```
*****
```

Once connected to the server, escalate the permission of current user

```
*****
```

OR

Become the root user

```
$ sudsu -
```

SeleniumTest code:

```
package seleniumjenkins;
```

```
import org.openqa.selenium.Alert;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;

public class Seleniumtest1 {

    @Test
    public void method1() throws InterruptedException
    {

        WebDriver driver = new ChromeDriver();

        // Maximize the browser window

        driver.manage().window().maximize();

        //1. Open the url on the browser

        driver.get("https://mail.rediff.com/cgi-bin/login.cgi");

        driver.findElement(By.xpath("//div[@class='floatL
leftwidth']/descendant::input[3]")).click();

        Thread.sleep(3000);

        //Switch from current window to Alert box

        // Alert is a class in selenium, responsible to handle alert box element

        Alert a= driver.switchTo().alert();
```

```

        System.out.println(      a.getText());



        Thread.sleep(2000);

        a.accept(); // click on ok or Yes

        //a.dismiss(); // click on NO, cancel button on the alert box

        driver.findElement(By.xpath("//div[@class='table']/descendant::input[1]")).clear();

        driver.findElement(By.xpath("//div[@class='table']/descendant::input[1]")).sendKeys("sonal");





    }

}

TestXMLfile;
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >

<suite name="13OCT test" verbose="1">
<test name="MailBoxTest">
<classes>
<class name="seleniumjenkins.Seleniumtest1">
</class>
</classes>

</test>
</suite>
To Run the code from jenkins
Jenkin-Maven Pipeline:
pipeline{

```

```
tools{
    maven 'mymaven'
}

agent any // node where we have to run pipeline

stages{
    stage('Clone the repo'){
        {
            steps{
                git 'https://github.com/Sonal0409/DevOpsCodeDemo.git'
            }
        }
    }

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

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

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

}
```

}

The screenshot shows the Jenkins Pipeline CICDPipeline interface. On the left, there's a sidebar with options like Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, Rename, and Pipeline Syntax. The main area is titled "Pipeline CICDPipeline". Below it is a "Stage View" section with a table showing stage times. The table has columns for "Declarative: Tool Install", "Clone the repo", and "CompileCode". The times listed are 1s, 2s, and 4s respectively. A tooltip indicates "Average stage times: 1s, 2s, 4s". To the left of the table, there's a "Build History" section showing "Oct 12 12:26" and "No Changes". Below the table is a "Permalinks" section with a link to "Oct 12, 2023, 6:56 AM". At the bottom right, there are links for "Atom feed for all" and "Atom feed for failures". The footer includes links for REST API and Jenkins 2.414.2, along with system status icons.

Declarative: Tool Install	Clone the repo	CompileCode
1s	2s	4s

Average stage times: 1s, 2s, 4s

Oct 12 12:26 No Changes

Build History trend

Permalinks

Oct 12, 2023, 6:56 AM

Atom feed for all Atom feed for failures

REST API Jenkins 2.414.2

12:27 PM 10/12/2023

Pipeline Steps		
envVarsForTool - (40 ms in self)		
withEnv - (13 sec in block)	M2_HOME, MAVEN_HOME, PATH+MAVEN	
withEnv block - (13 sec in block)		
sh - (13 sec in self)	mvn test	
stage - (14 sec in block)	PackgeCode	
stage block (PackgeCode) - (14 sec in block)		
tool - (46 ms in self)	mymaven	
envVarsForTool - (36 ms in self)		
withEnv - (14 sec in block)	M2_HOME, MAVEN_HOME, PATH+MAVEN	
withEnv block - (14 sec in block)		
sh - (14 sec in self)	mvn package	
<hr/>		
git - (1.6 sec in self)	https://github.com/Sonal0409/DevOpsCodeDemo.git	
stage - (17 sec in block)	CompileCode	
stage block (CompileCode) - (17 sec in block)		
tool - (37 ms in self)	mymaven	
envVarsForTool - (28 ms in self)		
withEnv - (17 sec in block)	M2_HOME, MAVEN_HOME, PATH+MAVEN	
withEnv block - (17 sec in block)		
sh - (17 sec in self)	mvn compile	
stage - (14 sec in block)	TestCode	
stage block (TestCode) - (13 sec in block)		
tool - (42 ms in self)	mymaven	
envVarsForTool - (40 ms in self)		

The screenshot shows a Jenkins job console window titled 'CICDPipeline #1'. The URL in the address bar is '54.147.179.78:8080/job/CICDPipeline/1/console'. The console output displays the Maven build process for a 'webapp' project. It shows progress messages like 'Progress (1): 5.9/5.9 MB', download from central repository, packaging, assembling, building, and finally a 'BUILD SUCCESS' message. The Jenkins interface includes a top navigation bar with various tabs and a bottom toolbar with icons.

```

Live Classes | Mphasis | Phase | ATE-Phase2-No | Connect to insta | EC2 Instance Co | ATE-Phase2-No | CICDPipeline #1 | + | - | X
← → ⌂ Not secure | 54.147.179.78:8080/job/CICDPipeline/1/console
Dashboard > CICDPipeline > #1

Progress (1): 5.9/5.9 MB
Progress (1): 5.9/5.9 MB
Progress (1): 5.9/5.9 MB
Progress (1): 5.9 MB

Downloaded from central: https://repo.maven.apache.org/maven2/com/github/luben/zstd-jni/1.5.5-2/zstd-jni-1.5.5-2.jar (5.9 MB
at 7.8 MB/s)
[INFO] Packaging webapp
[INFO] Assembling webapp [addressbook] in [/var/lib/jenkins/workspace/CICDPipeline/target/addressbook]
[INFO] Processing war project
[INFO] Building war: /var/lib/jenkins/workspace/CICDPipeline/target/addressbook.war
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 9.923 s
[INFO] Finished at: 2023-10-12T06:57:06Z
[INFO] -----
[Pipeline] 
[Pipeline] // withEnv
[Pipeline] 
[Pipeline] // stage
[Pipeline] 
[Pipeline] // withEnv
[Pipeline] 
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

```

Selenium-Jenkins Pipeline:

```
pipeline{
```

```
    tools{
```

```
        maven 'mymaven'
```

```
}
```

```
agent {label 'win_slave'}
```

```
stages{
```

```
    stage('clone the repo')
```

```
{
```

```
    steps{
```

```
        git 'https://github.com/Veeratestgit/ATE-Selenium-jenkins.git'
```

```
}
```

```
}
```

```
    stage('Seleniumtest')
```

```
{
```

```
    steps{
```

```
        sh 'mvn test'
```

```
}
```

```
}
```

```
}
```

```
}
```

Jenkins

Dashboard >

+ New Item Add description

All

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀️	CICDPipeline	19 min #1	N/A	55 sec
✓	🌧️	Continuous-testing	42 min #4	52 min #3	2 min 26 sec
✓	☀️	github_integration	1 hr 16 min #2	N/A	4 min 17 sec
✓	☀️	job1	1 hr 29 min #3	N/A	38 ms
...	☀️	Selenium-Pipeline	N/A	N/A	N/A

Build Queue (1)

part of Selenium-Pipeline #1

Build Executor Status

Built-In Node

1 Idle

2 Idle

win slave

Atom feed for all Atom feed for failures Atom feed for just latest builds

12:46 PM 10/12/2023