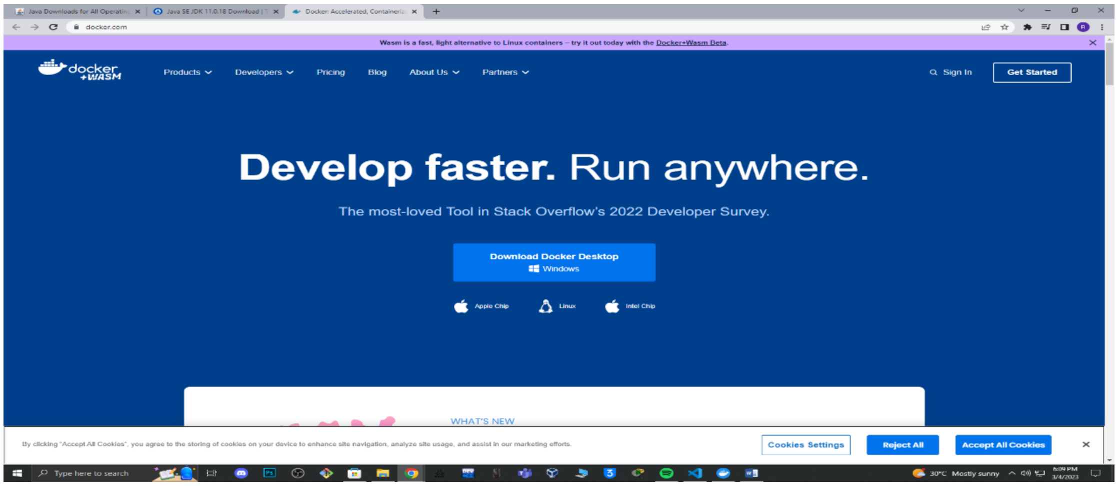
GUTIERREZ, ROMAN P.
CPE -301

INTROHDL – 302

Install/download needed:

Docker



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Windows

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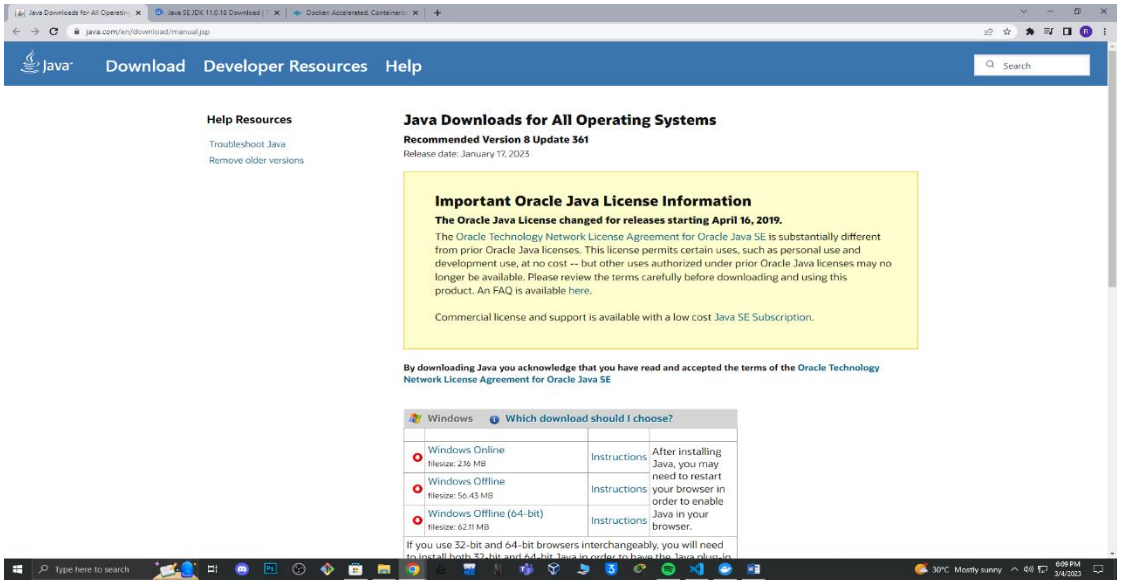
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Help Resources

Troubleshoot Java
Remove older versions

Java Downloads for All Operating Systems

Recommended Version 8 Update 361
Release date: January 17, 2023

Important Oracle Java License Information

The Oracle Java License changed for releases starting April 16, 2019.

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Commercial license and support is available with a low cost Java SE Subscription.

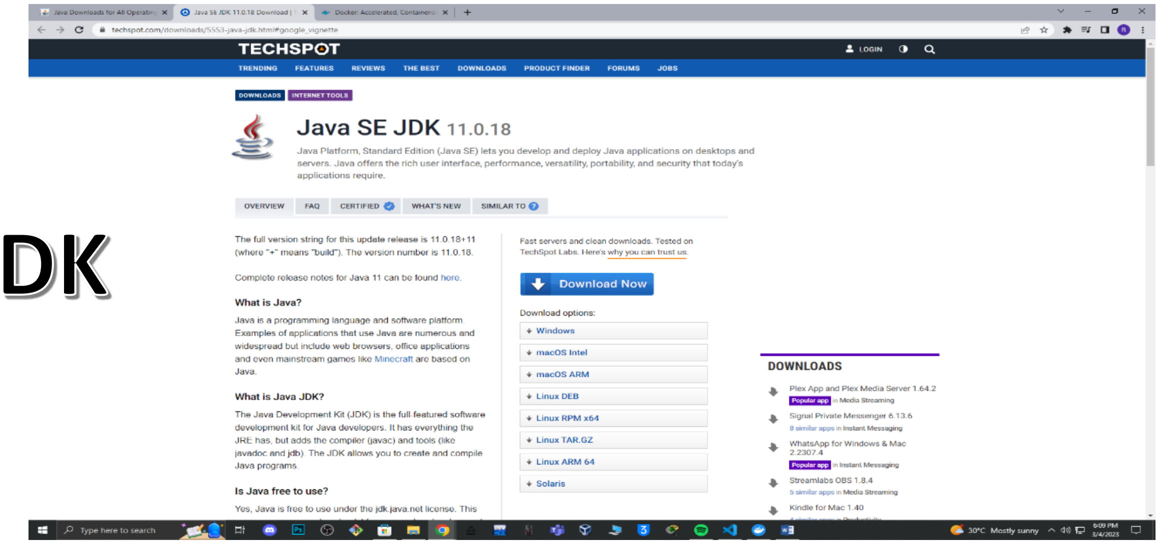
By downloading Java you acknowledge that you have read and accepted the terms of the Oracle Technology Network License Agreement for Oracle Java SE

Windows	Which download should I choose?		
●	Windows Online filesize: 2.16 MB	Instructions	After installing Java, you may need to restart your browser in order to enable Java in your browser.
●	Windows Offline filesize: 56.43 MB	Instructions	
●	Windows Offline (64-bit) filesize: 62.11 MB	Instructions	

If you use 32-bit and 64-bit browsers interchangeably, you will need to install both 32-bit and 64-bit Java in order to have the Java plug-in

Java (windows offline 64bit)

Java SE JDK



Java SE JDK 11.0.18

Java Platform, Standard Edition (Java SE) lets you develop and deploy Java applications on desktops and servers. Java offers the rich user interface, performance, versatility, portability, and security that today's applications require.

The full version string for this update release is 11.0.18+11 (where "+" means "build"). The version number is 11.0.18.

Complete release notes for Java 11 can be found here.

What is Java?

Java is a programming language and software platform. Examples of applications that use Java are numerous and widespread but include web browsers, office applications and even mainstream games like Minecraft are based on Java.

What is Java JDK?

The Java Development Kit (JDK) is the full-featured software development kit for Java developers. It has everything the JRE has, but adds the compiler (javac) and tools (like javadoc and jdb). The JDK allows you to create and compile Java programs.

Is Java free to use?

Yes, Java is free to use under the jdk.java.net license. This

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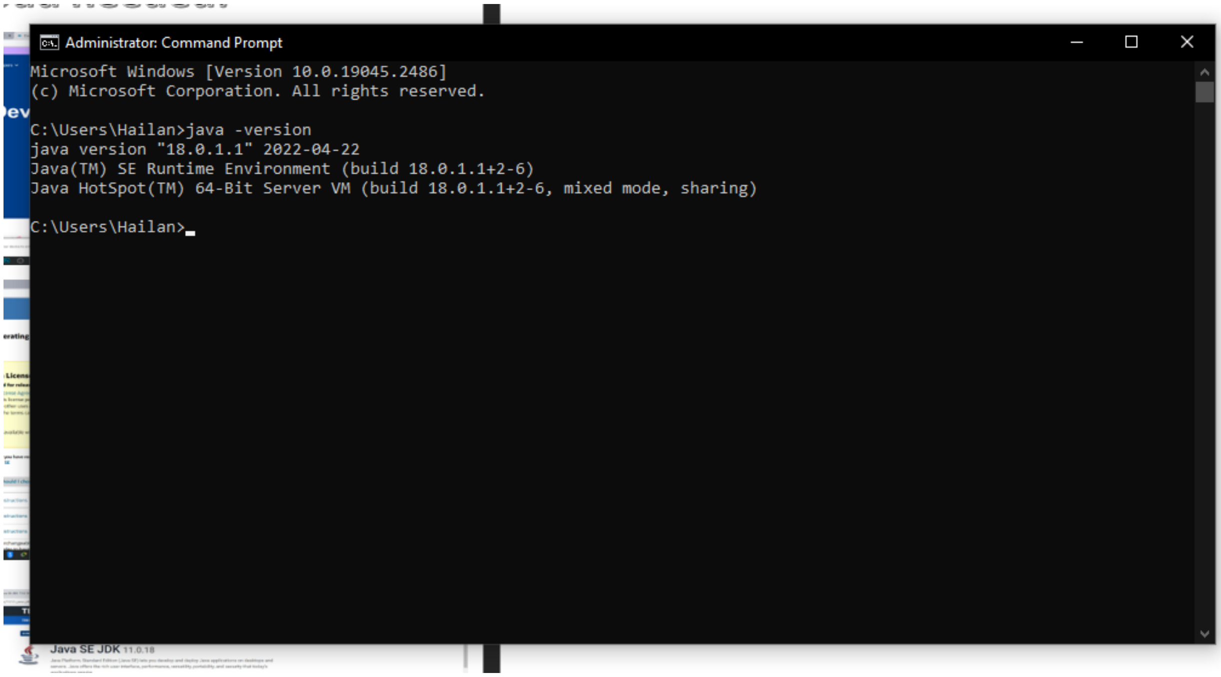
Check if java is already installed go to command prompt then type “java -version”.

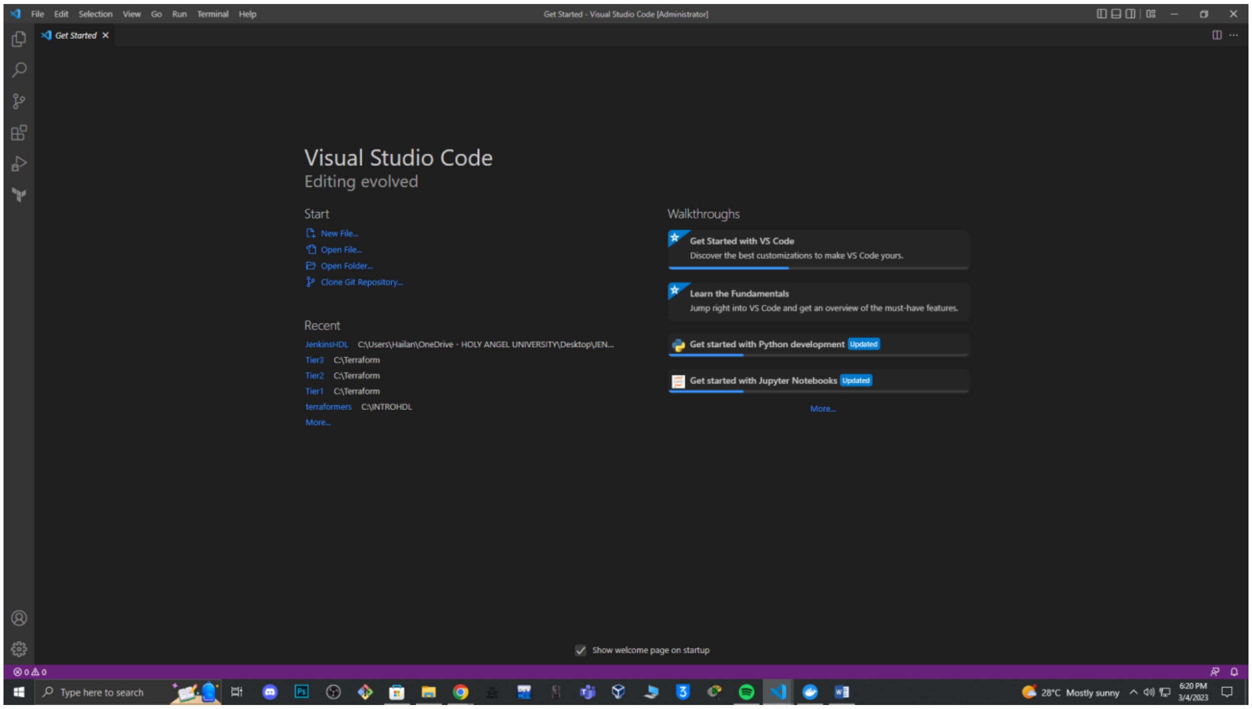


```
Microsoft Windows [Version 10.0.19045.2486]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Hailan>java -version
java version "18.0.1.1" 2022-04-22
Java(TM) SE Runtime Environment (build 18.0.1.1+2-6)
Java HotSpot(TM) 64-Bit Server VM (build 18.0.1.1+2-6, mixed mode, sharing)

C:\Users\Hailan>_
```

Open visual studio code and simply click “Clone Git repository”



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Run
Terminal
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Get Started - Visual Studio Code [Administrator]
Get Started
Visual Studio Code
Editing evolved
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New File...
Open File...
Open Folder...
Clone Git Repository...
Recent
JenkinsHDL C:\Users\Hailan\OneDrive - HOLY ANGEL UNIVERSITY\Desktop\JEN...
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Tier2 C:\Terraform
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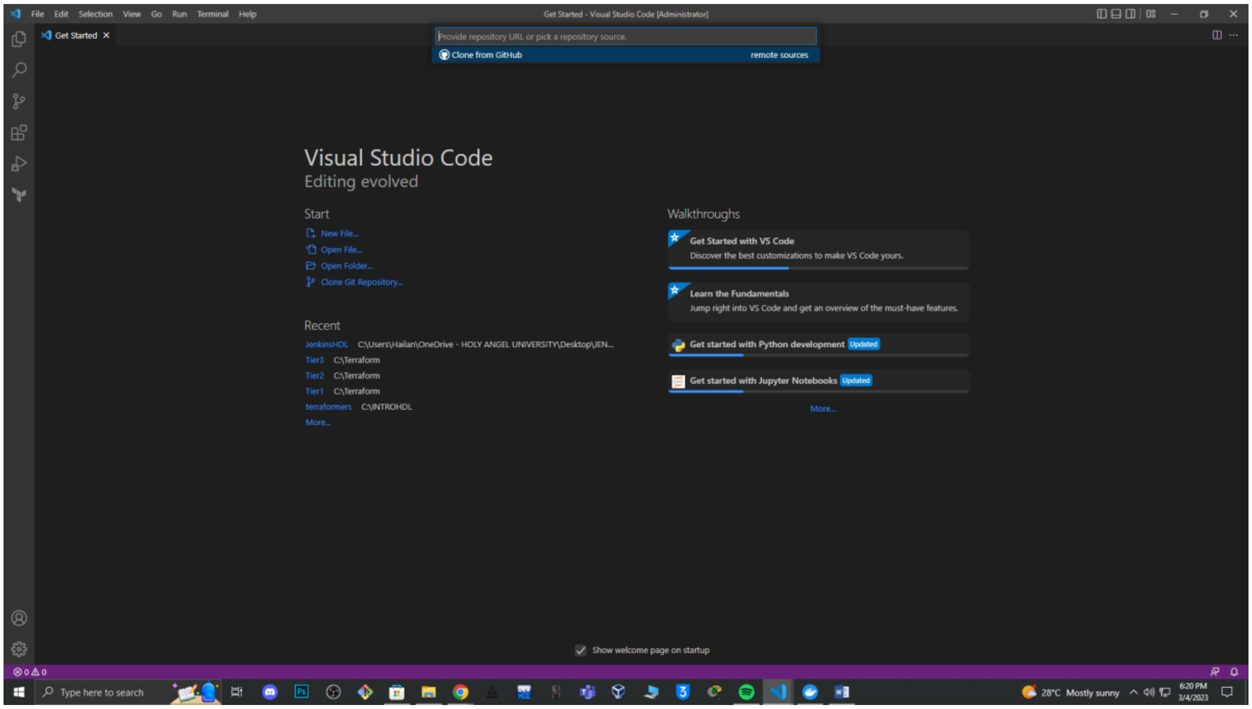
Click clone fromt git hub


File Edit Selection View Go Run Terminal Help
Get Started - Visual Studio Code [Administrator]
Get Started
Visual Studio Code
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Start
New File...
Open File...
Open Folder...
Clone Git Repository...
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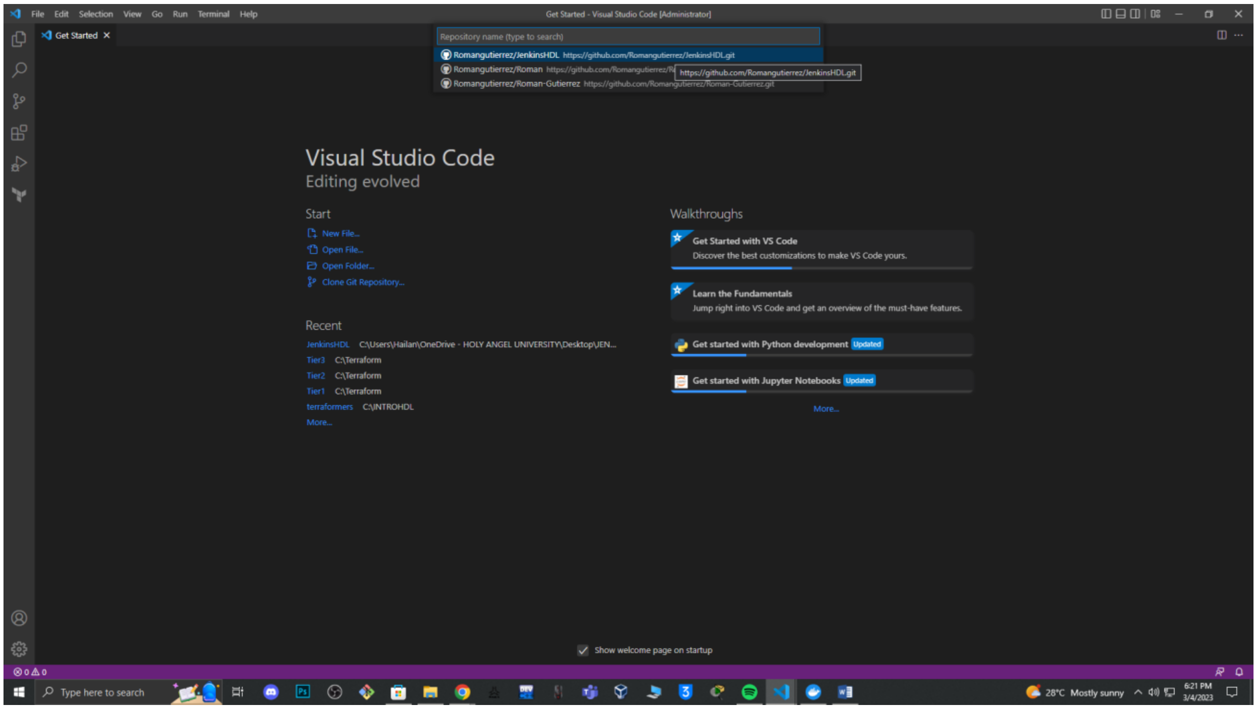
Provide repository URL or pick a repository source.

Clone from GitHub   remote sources

Select git url/link as shown below:


File Edit Selection View Go Run Terminal Help
Get Started - Visual Studio Code [Administrator]
Get Started
Visual Studio Code
Editing evolved
Start
New File...
Open File...
Open Folder...
Clone Git Repository...
Recent
JenkinsHDL C:\Users\Hailan\OneDrive - HOLY ANGEL UNIVERSITY\Desktop\JEN...
Tier3 C:\Terraform
Tier2 C:\Terraform
Tier1 C:\Terraform
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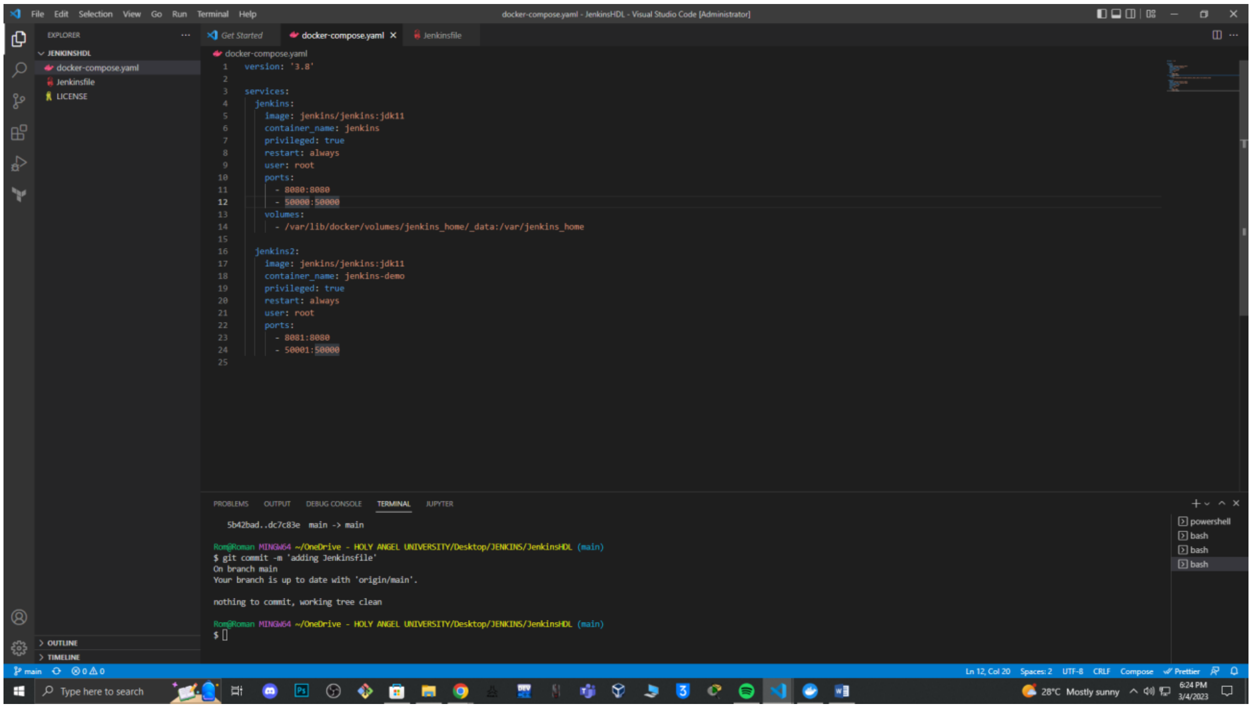
Repository name (type to search)

Romangutierrez/JenkinsHDL https://github.com/Romangutierrez/JenkinsHDL.git
Romangutierrez/Roman https://github.com/Romangutierrez/R
Romangutierrez/Roman-Gutierrez https://github.com/Romangutierrez/Roman-Gutierrez.git

https://github.com/Romangutierrez/JenkinsHDL.git

Create new file and name it “docker-compose.yaml” and paste the code .



```yaml
version: '3.8'

services:
  jenkins:
    image: jenkins/jenkins:jdk11
    container_name: jenkins
    privileged: true
    restart: always
    user: root
    ports:
      - 8080:8080
      - 50000:50000
    volumes:
      - /var/lib/docker/volumes/jenkins_home/_data:/var/jenkins_home

  jenkins2:
    image: jenkins/jenkins:jdk11
    container_name: jenkins-demo
    privileged: true
    restart: always
    user: root
    ports:
      - 8081:8080
      - 50001:50000
```

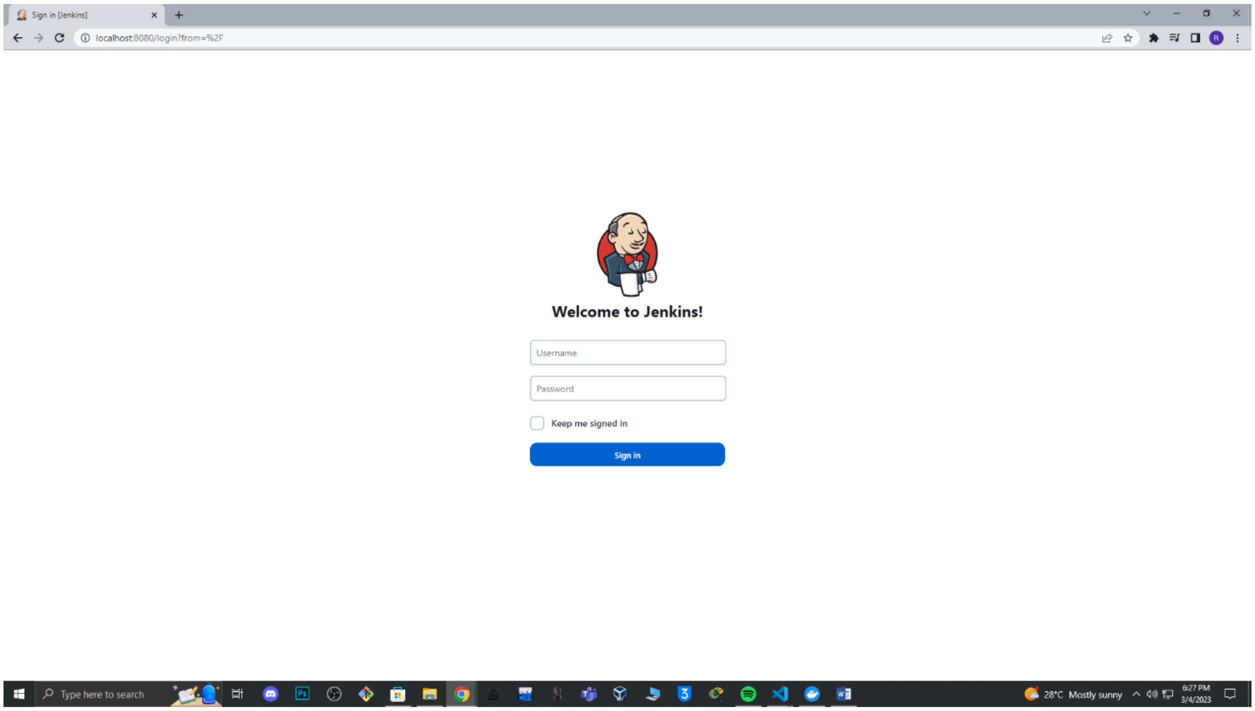
```
   5b42bad..dc7c83e  main -> main

Rom@Roman MINGW64 ~/OneDrive - HOLY ANGEL UNIVERSITY/Desktop/JENKINS/JenkinsHDL (main)
$ git commit -m 'adding Jenkinsfile'
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

Rom@Roman MINGW64 ~/OneDrive - HOLY ANGEL UNIVERSITY/Desktop/JENKINS/JenkinsHDL (main)
$ 
```

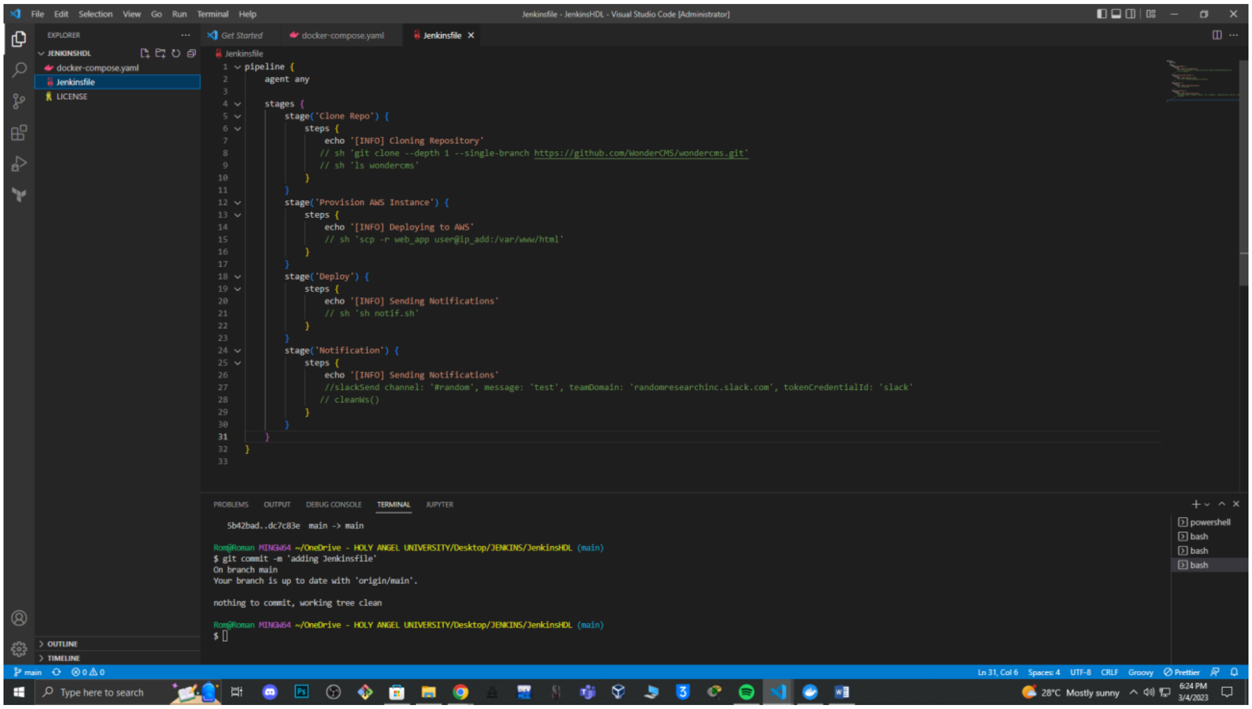
Go to web browser and type “localhost:8080”



Welcome to Jenkins!

CREATING PIPELINE

Create new file name it as “Jenkinsfile” and paste the code .



```groovy
pipeline {
    agent any

    stages {
        stage('Clone Repo') {
            steps {
                echo '[INFO] Cloning Repository'
               // sh 'git clone --depth 1 --single-branch https://github.com/WonderCMS/wondercms.git'
               // sh 'ls wondercms'
            }
        }
        stage('Provision AWS Instance') {
            steps {
                echo '[INFO] Deploying to AWS'
                // sh 'scp -r web_app user@ip_add:/var/www/html'
            }
        }
        stage('Deploy') {
            steps {
                echo '[INFO] Sending Notifications'
                // sh 'sh notif.sh'
            }
        }
        stage('Notification') {
            steps {
                echo '[INFO] Sending Notifications'
                //slackSend channel: '#random', message: 'test', teamDomain: 'randomresearchinc.slack.com', tokenCredentialId: 'slack'
               // cleanWs()
            }
        }
    }
}
```

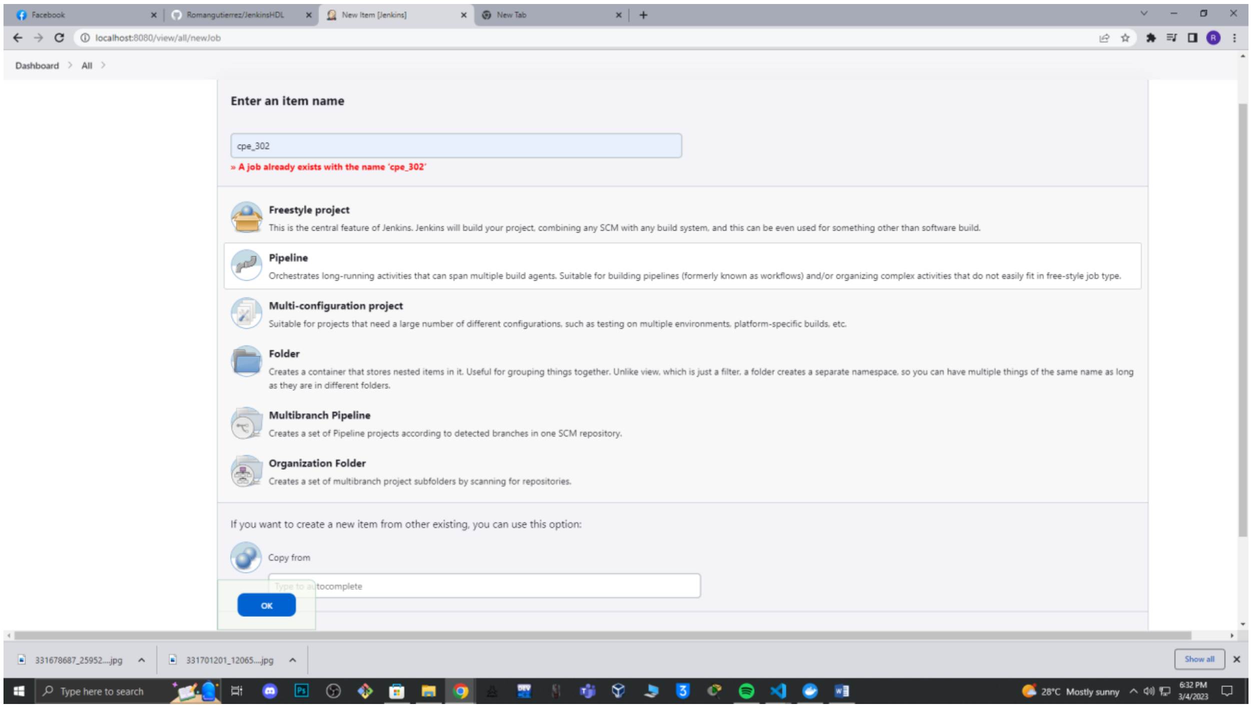
```
   5b42bad..dc7c83e  main -> main

Rom@Roman MINGW64 ~/OneDrive - HOLY ANGEL UNIVERSITY/Desktop/JENKINS/JenkinsHDL (main)
$ git commit -m 'adding Jenkinsfile'
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

Rom@Roman MINGW64 ~/OneDrive - HOLY ANGEL UNIVERSITY/Desktop/JENKINS/JenkinsHDL (main)
$ 
```

Enter an item name whatever you wish then select pipeline then press “ok”



Enter an item name

cpe_302

» A job already exists with the name 'cpe_302'

Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

Multibranch Pipeline
Creates a set of Pipeline projects according to detected branches in one SCM repository.

Organization Folder
Creates a set of multibranch project subfolders by scanning for repositories.

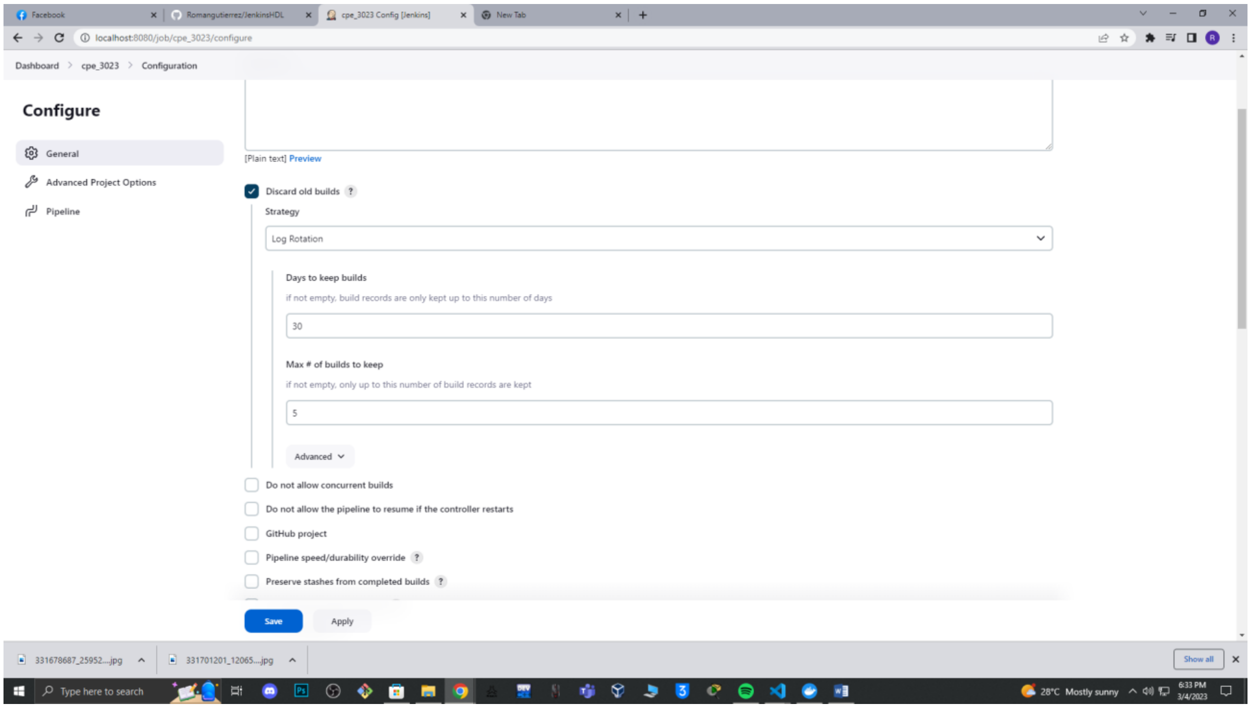
If you want to create a new item from other existing, you can use this option:

Copy from

Type to autocomplete

OK

Check “Discord old builds” then enter “30 and “5” as shown below.



☑ Discard old builds ?

Strategy

Log Rotation

Days to keep builds

if not empty, build records are only kept up to this number of days

30

Max # of builds to keep

if not empty, only up to this number of build records are kept

5

Advanced

□ Do not allow concurrent builds

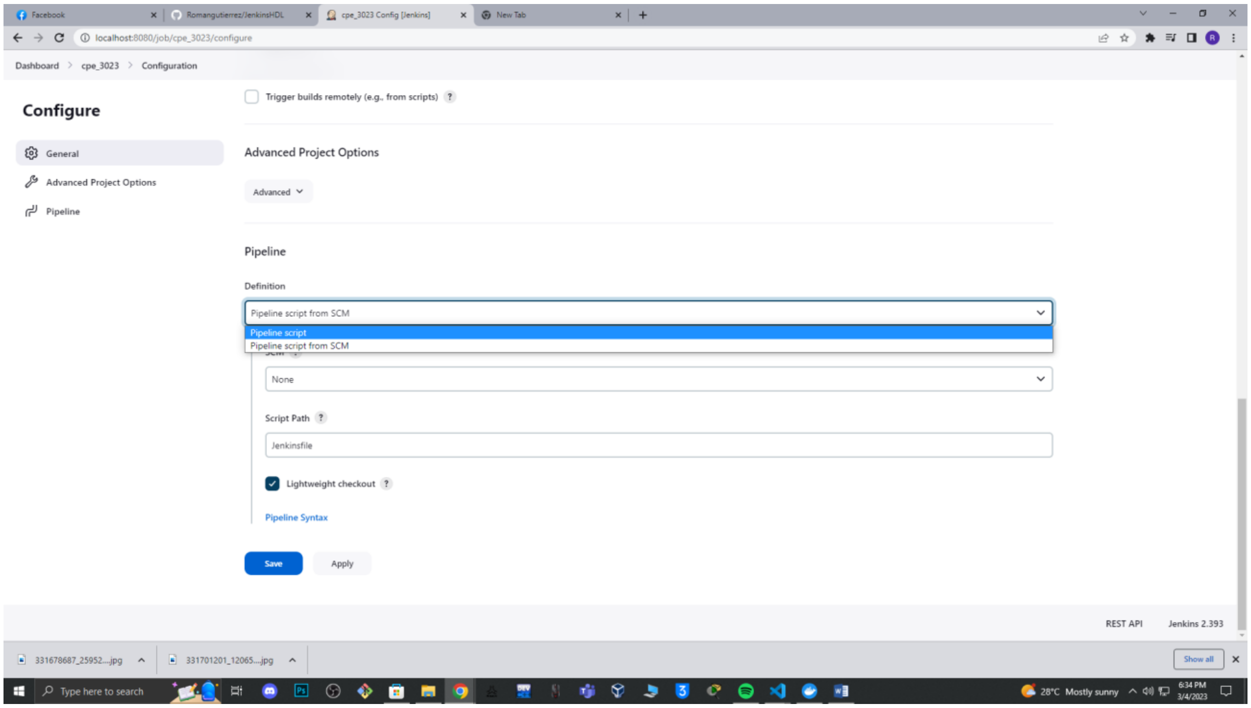
□ Do not allow the pipeline to resume if the controller restarts

□ GitHub project

□ Pipeline speed/durability override ?

□ Preserve stashes from completed builds ?

Under pipeline select pipeline script from SCM



□ Trigger builds remotely (e.g., from scripts) ?

Advanced Project Options

Advanced

Pipeline

Definition

Pipeline script from SCM

Pipeline script
Pipeline script from SCM

SCM ?

None

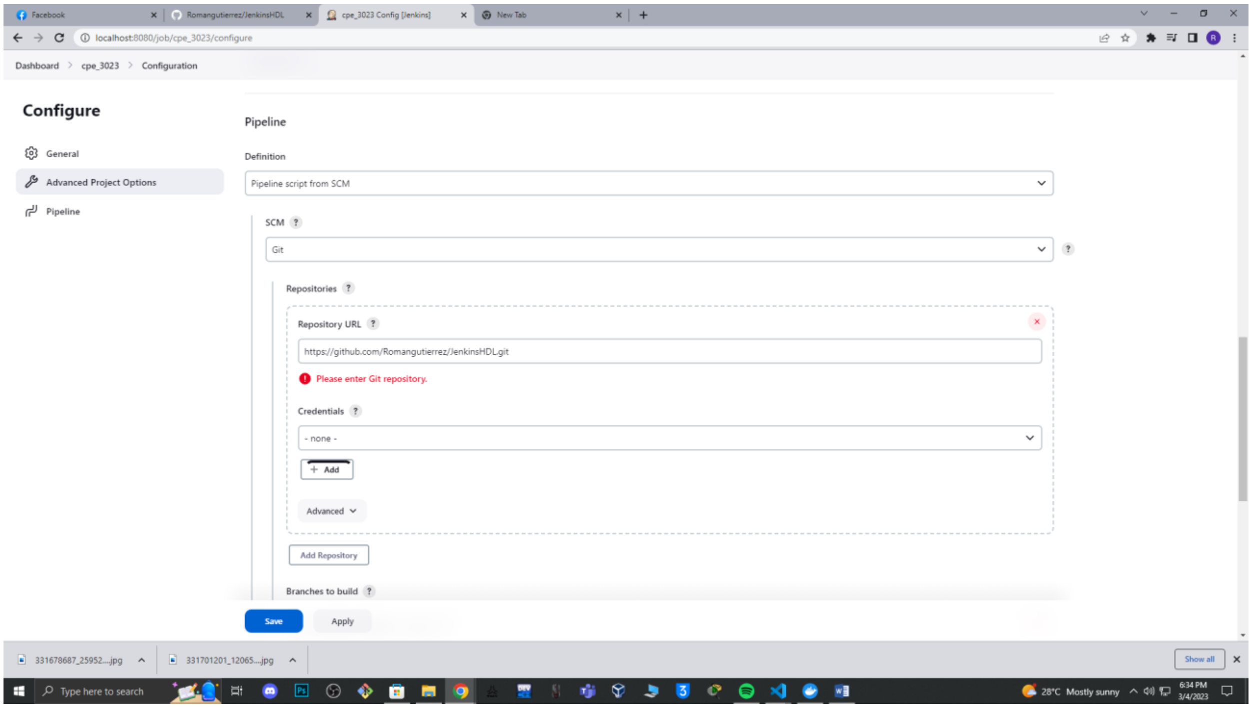
Script Path ?

Jenkinsfile

☑ Lightweight checkout ?

Pipeline Syntax

Under SCM select Git and paste the Repository URL then press save



Pipeline

Definition: Pipeline script from SCM

SCM: Git

Repositories

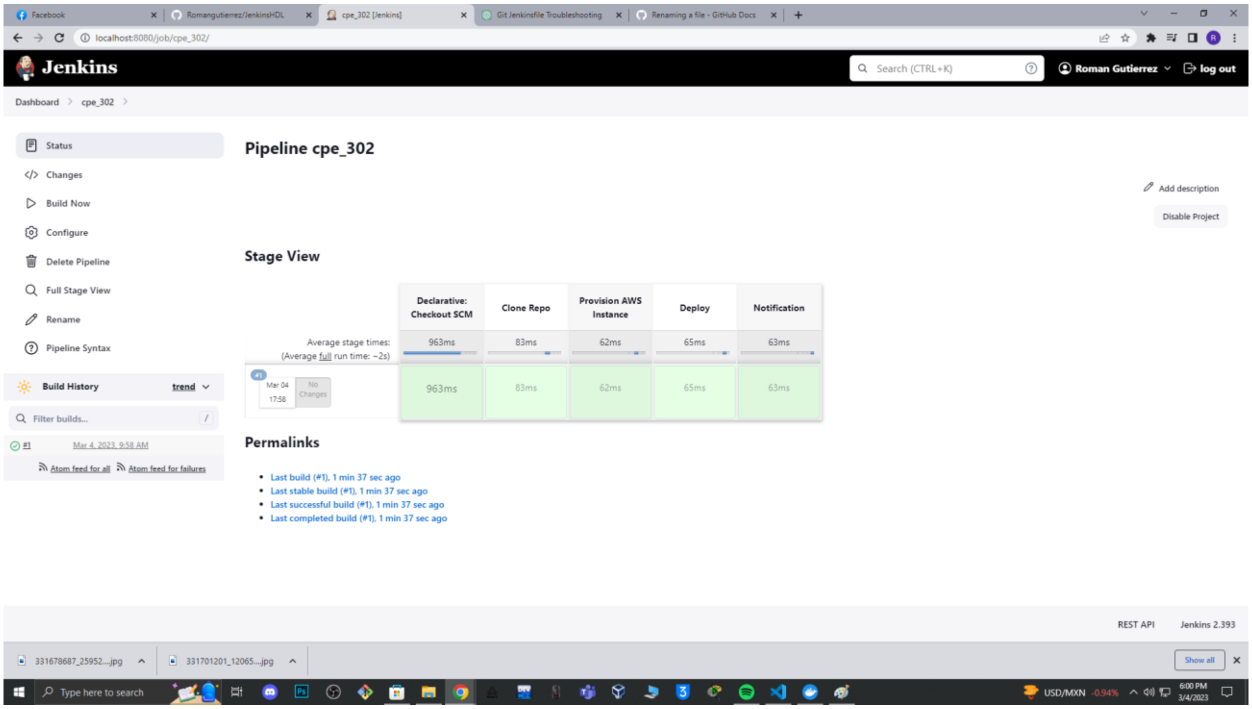
Repository URL: https://github.com/Romangutierrez/JenkinsHDL.git

Please enter Git repository.

Credentials: - none -

Branches to build

Created pipeline output as pressing "build now"



Pipeline cpe_302

#1 Mar 4, 2023, 9:58 AM

Stage View

	Declarative: Checkout SCM	Clone Repo	Provision AWS Instance	Deploy	Notification
Average stage times: (Average full run time: ~2s)	963ms	83ms	62ms	65ms	63ms
#1 Mar 04 17:58 No Changes	963ms	83ms	62ms	65ms	63ms

Permalinks

- Last build (#1), 1 min 37 sec ago
- Last stable build (#1), 1 min 37 sec ago
- Last successful build (#1), 1 min 37 sec ago
- Last completed build (#1), 1 min 37 sec ago