

Jenkins

1) Launching an Ec2 machine

Go to ec2 -> instances -> launch machine

Select Microsoft windows server 2019

The screenshot shows the AWS Launch Instance Wizard interface. At the top, there is a message: "You've been invited to try an early, beta iteration of the new launch instance wizard. We will continue to improve the experience over the next few months. We're asking customers for their feedback on this early release. To exit the new launch instance wizard at any time, choose the Cancel button." Below this, a "Try it now!" button is visible.

The main section is titled "Step 1: Choose an Amazon Machine Image (AMI)". It displays a search bar with "windows" typed in. A note below the search bar says: "AWS Launch Wizard for SQL Server offers an easy way to size, configure, and deploy Microsoft SQL Server Always On availability groups. Use AWS Launch Wizard for this launch".

The search results show two options under "Quick Start (19)":

- Microsoft Windows Server 2019 Base - ami-0a4a4775bdb44e58**
Windows
Free tier eligible
Microsoft Windows 2019 Datacenter edition. [English]
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
64-bit (x86)
Select button
- Microsoft Windows Server 2019 Base with Containers - ami-012709f43baed8765**
Select button

At the bottom of the page, there is a navigation bar with links for Feedback, English (US), Privacy, Terms, and Cookie preferences. It also shows the date (2/27/2022), time (2:19 PM), and weather information (28°C Haze).

Select t2.micro

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
	t2.3xlarge	8	32	EBS only	-	Moderate	Yes

Review and Launch

No changes in configure instances

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	<input type="text" value="1"/>	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot instances	
Network	vpc-05a608ed9abf73516 (default)	<input type="button" value="Create new VPC"/>
Subnet	No preference (default subnet in any Availability Zone)	<input type="button" value="Create new subnet"/>
Auto-assign Public IP	Use subnet setting (Enable)	
Hostname type	Use subnet setting (IP name)	
DNS Hostname	<input type="checkbox"/> Enable IP name IPv4 (A record) DNS requests <input checked="" type="checkbox"/> Enable resource-based IPv4 (A record) DNS requests <input type="checkbox"/> Enable resource-based IPv6 (AAAA record) DNS requests	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	<input type="button" value="Open"/>	

Review and Launch

No changes in add storage page

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-0d37b1b240250cb3d	30	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

▼ Shared file systems [i](#)

You currently don't have any file systems on this instance. Select "Add file system" button below to add a file system.

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Tags](#)



In security group add http and custom tcp (with port range 8080) make sure source is anywhere. Refer the below image

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group Select an existing security group

Security group name:

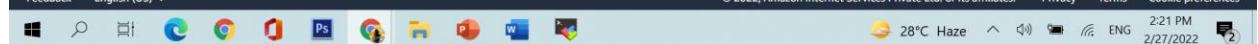
Description:

Type	Protocol	Port Range	Source	Description
RDP	TCP	3389	Custom <input type="button" value="0.0.0.0/0"/>	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom <input type="button" value="0.0.0.0/0, ::/0"/>	e.g. SSH for Admin Desktop
Custom TCP F	TCP	8080	Anywhere <input type="button" value="0.0.0.0/0, ::/0"/>	e.g. SSH for Admin Desktop

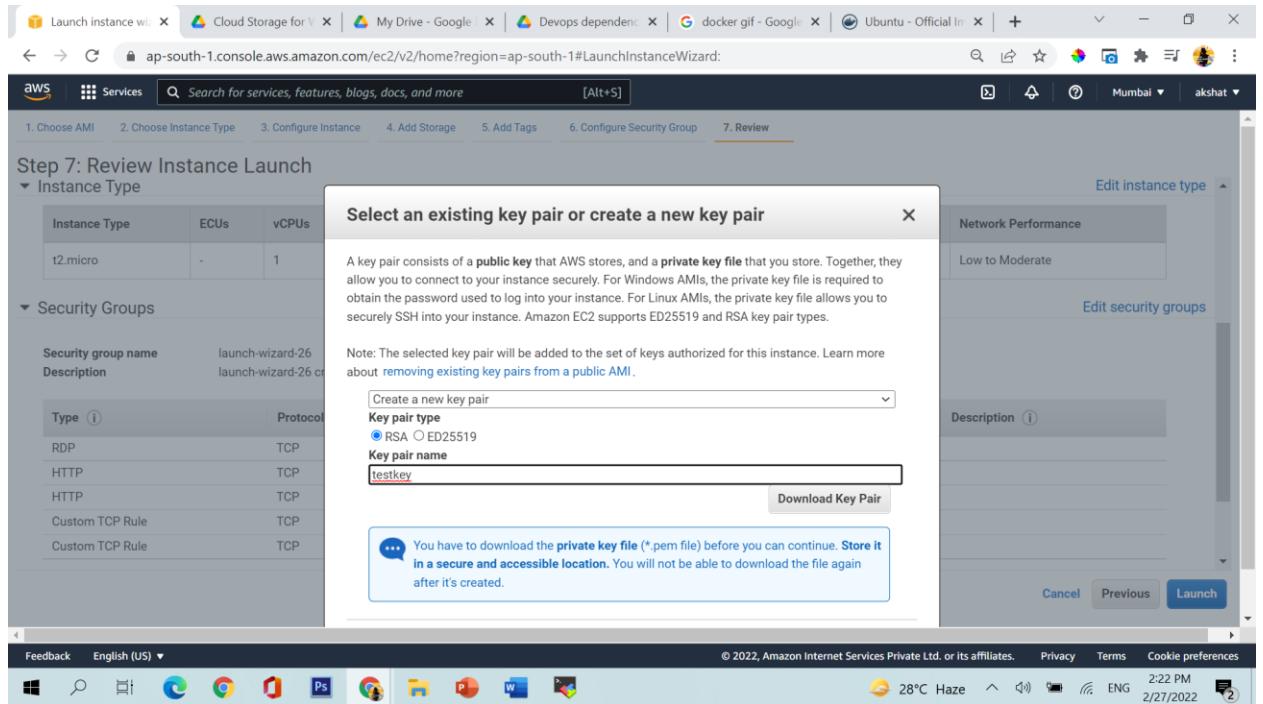
Add Rule

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

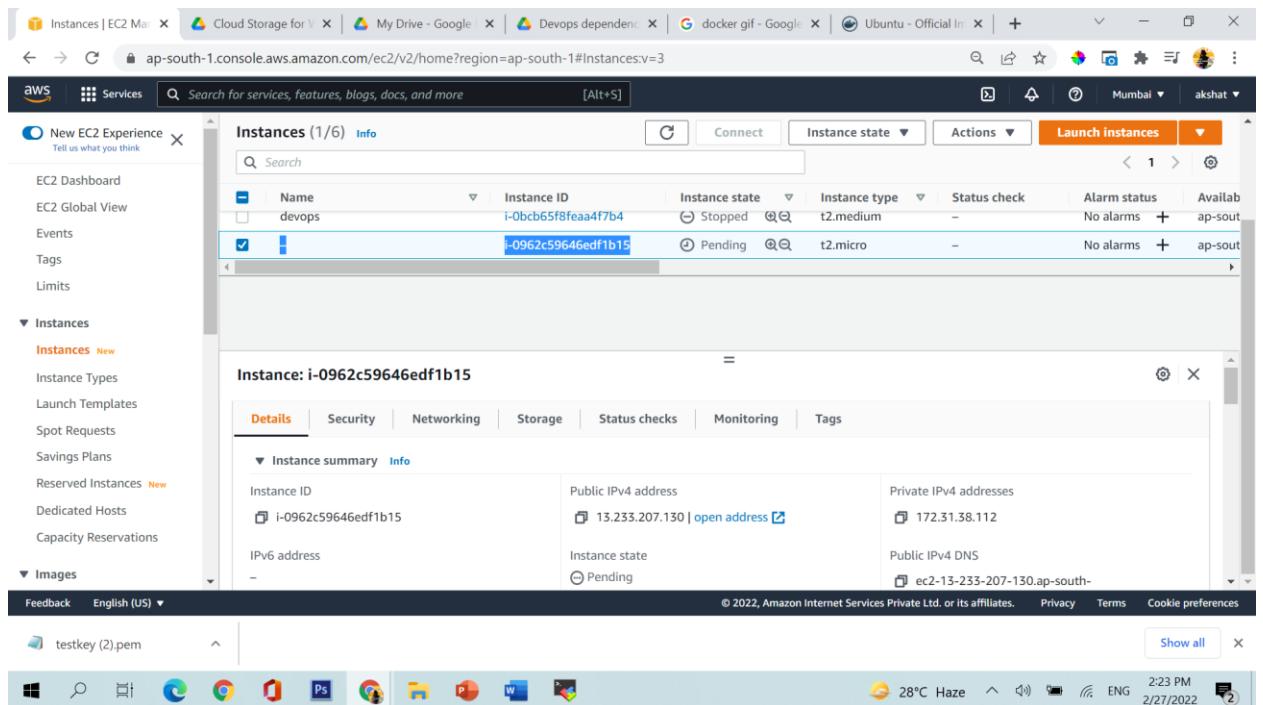
[Cancel](#) [Previous](#) [Review and Launch](#)



Now review and launch and then launch the machine. It will ask you to create the keypair. Create a keypair



My instance is getting launched

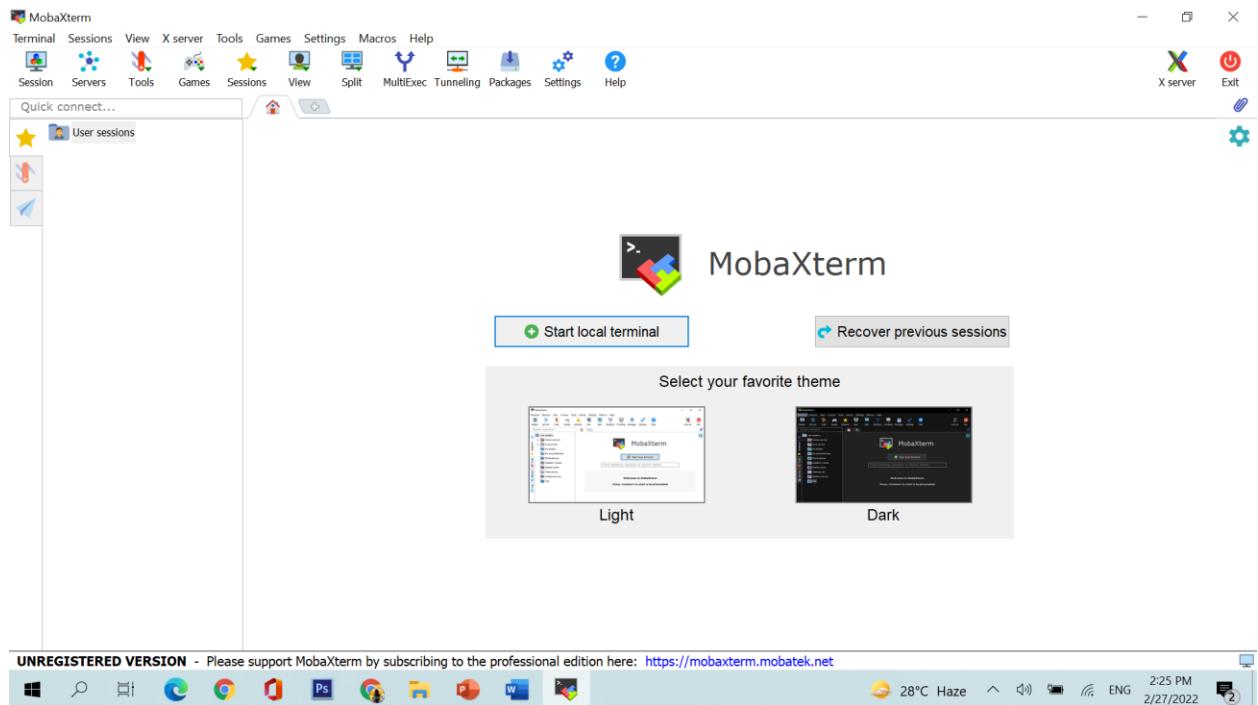


2) Now lets connect to the instance

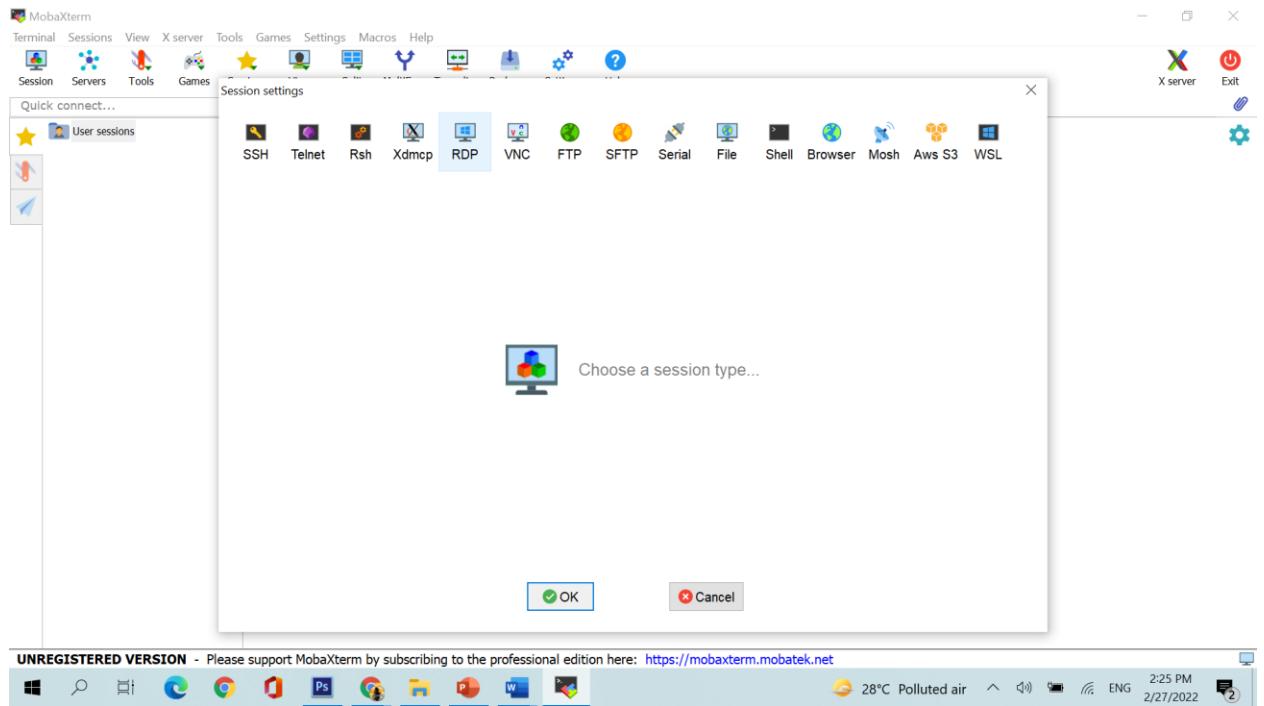
Go to mobaxterm software

(<https://drive.google.com/file/d/1y-kG7FmY55jaDYa4IbrHbzSLISHNbodG/view?usp=sharing>) you can download the software from here

Open the software

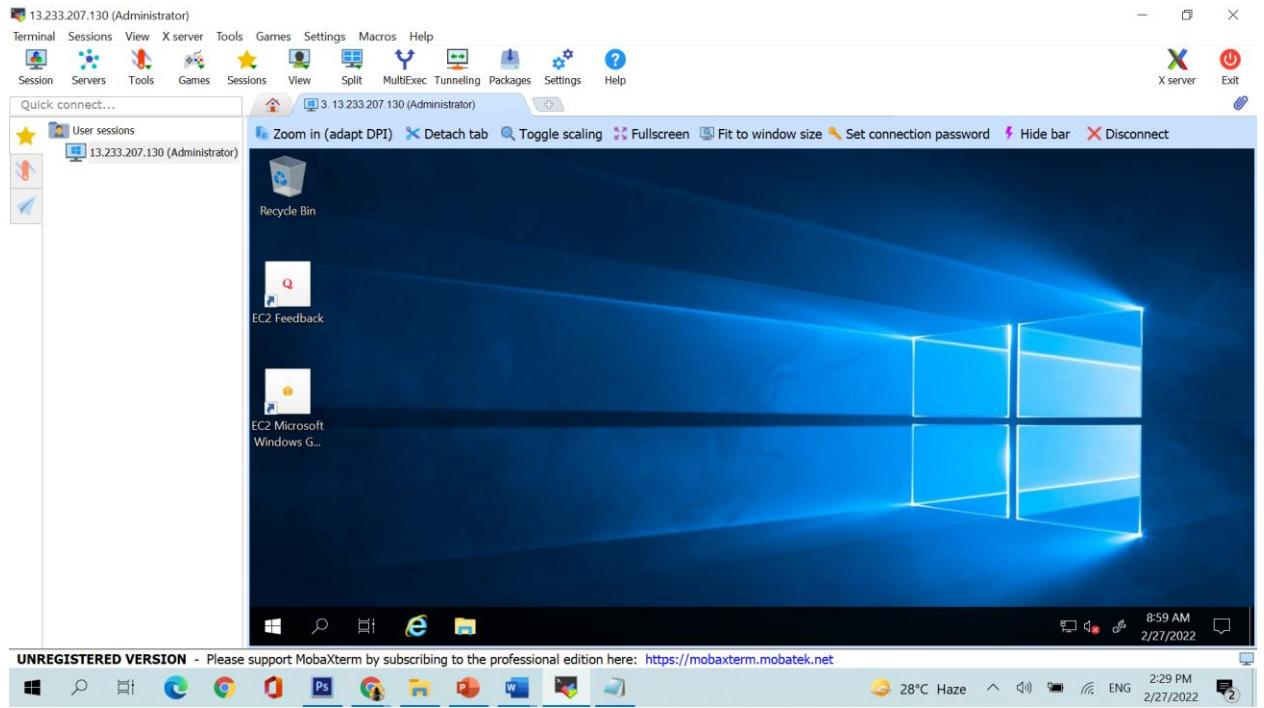


On the top go to sessions and create a new session and after that click on rdp when pop up will come



Here put remote ip (which is public ip of the machine) and username administrator

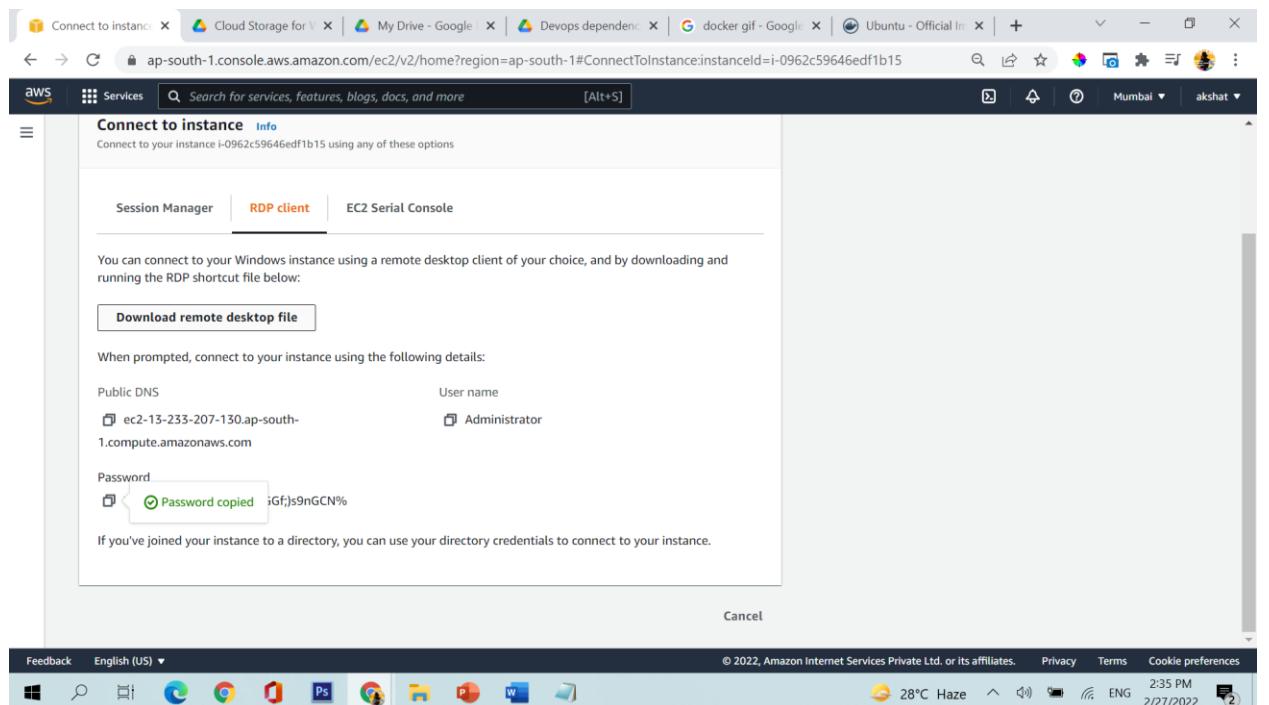
And password you will get when you select your machine in aws console and go to rdp client and click to get the password



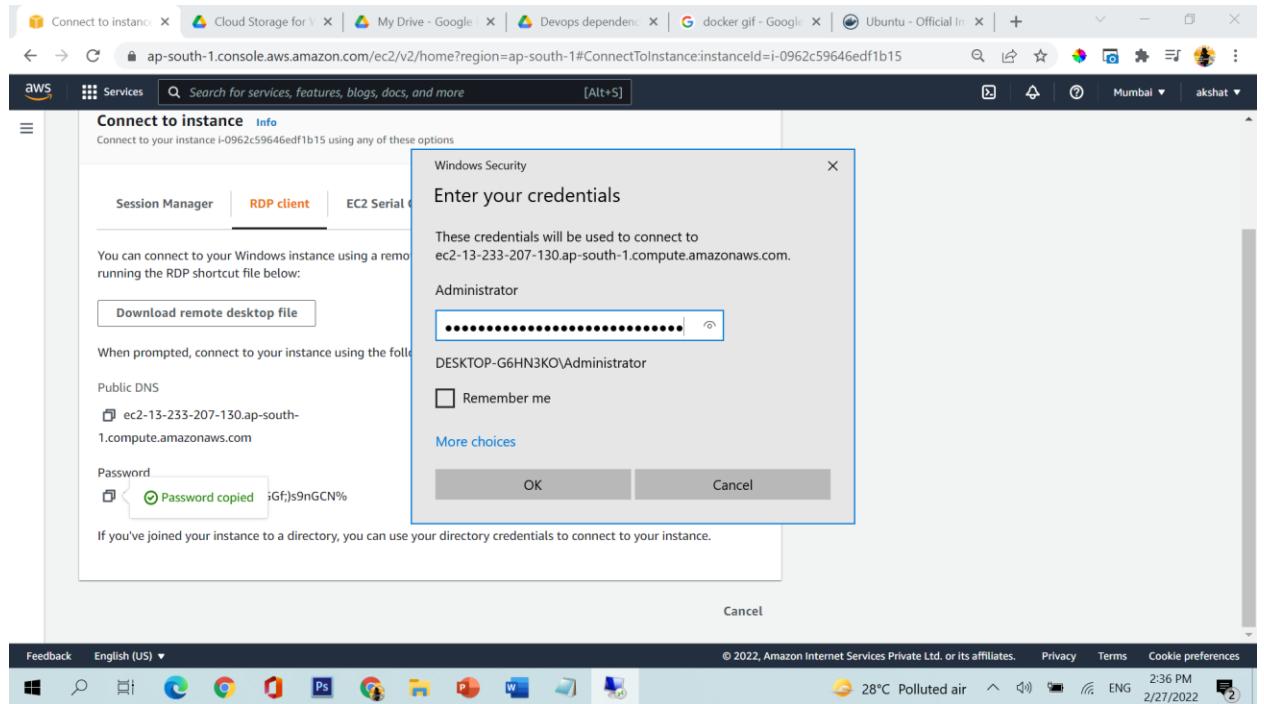
(Still confused? You can connect via RDP too : Here is link to check the video for the same: <https://www.youtube.com/watch?v=cFeoZOzV2Xc>)

Lets see another method to connect with our windows RDS machine as well

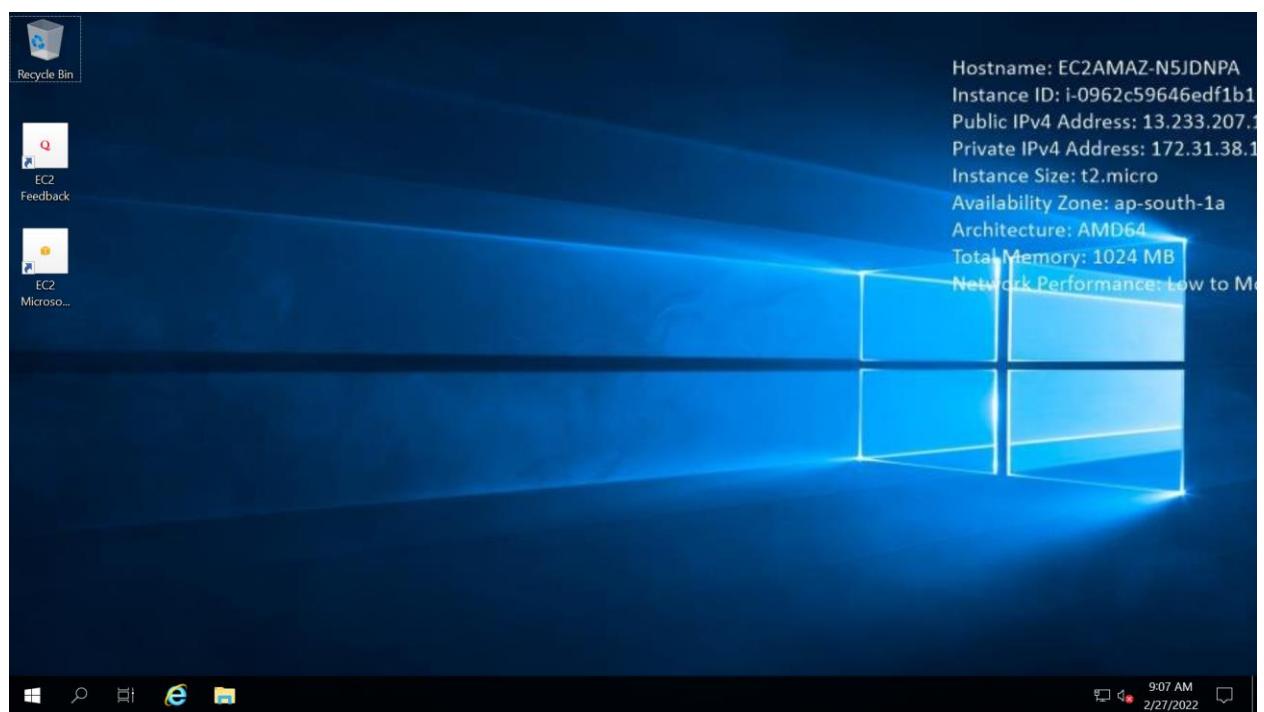
Download this remote desktop file and when you click on password it will ask you to paste the keypair there. Do that the password will be displayed after that



Paste your password

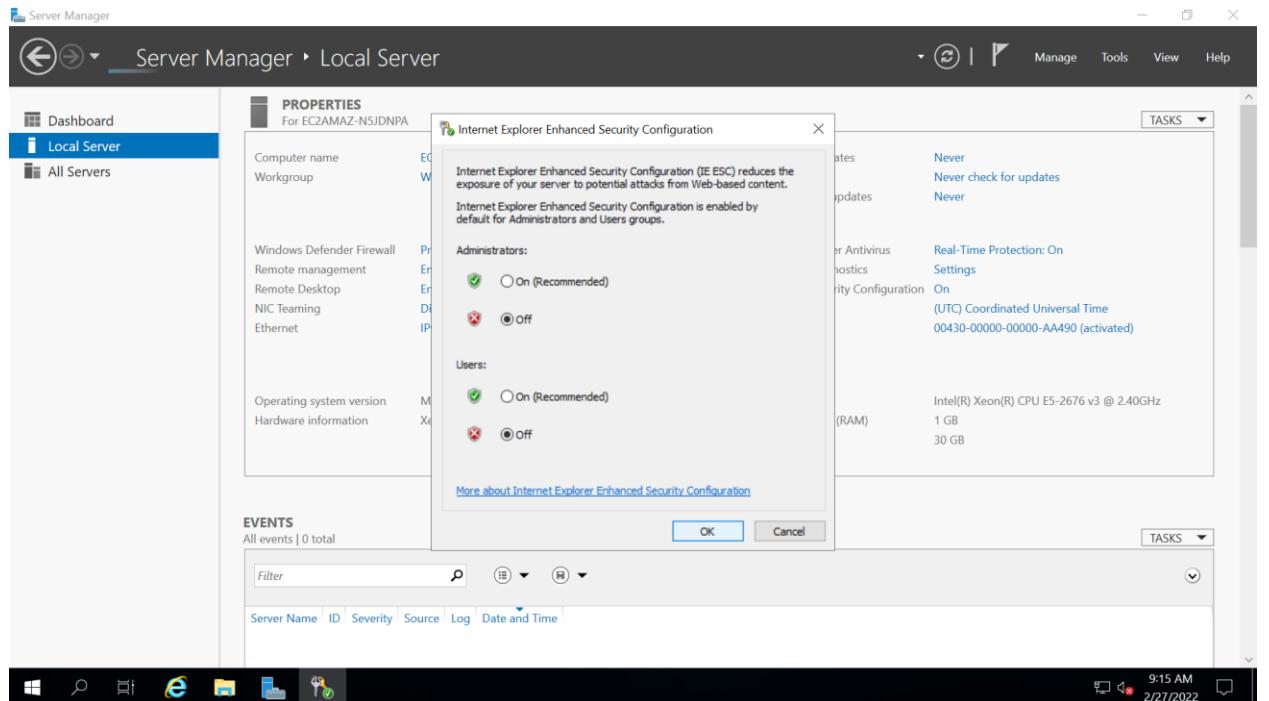


Viola entered inside the machine

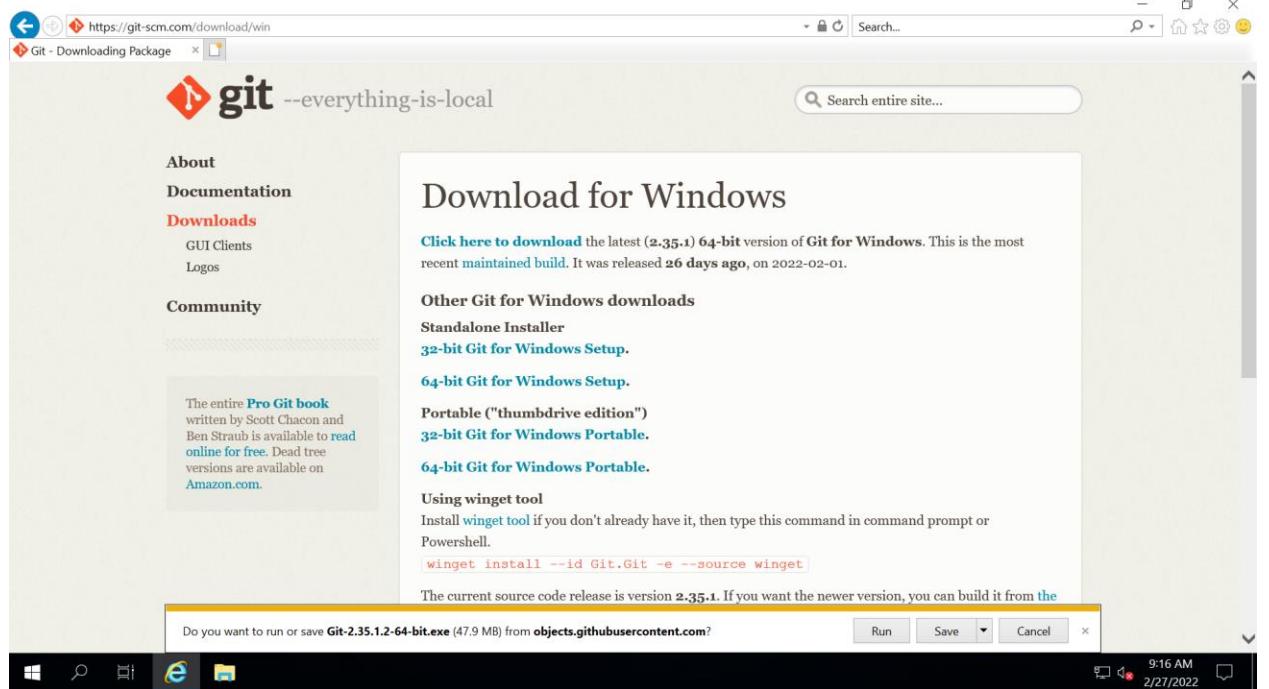


3) Go inside the server

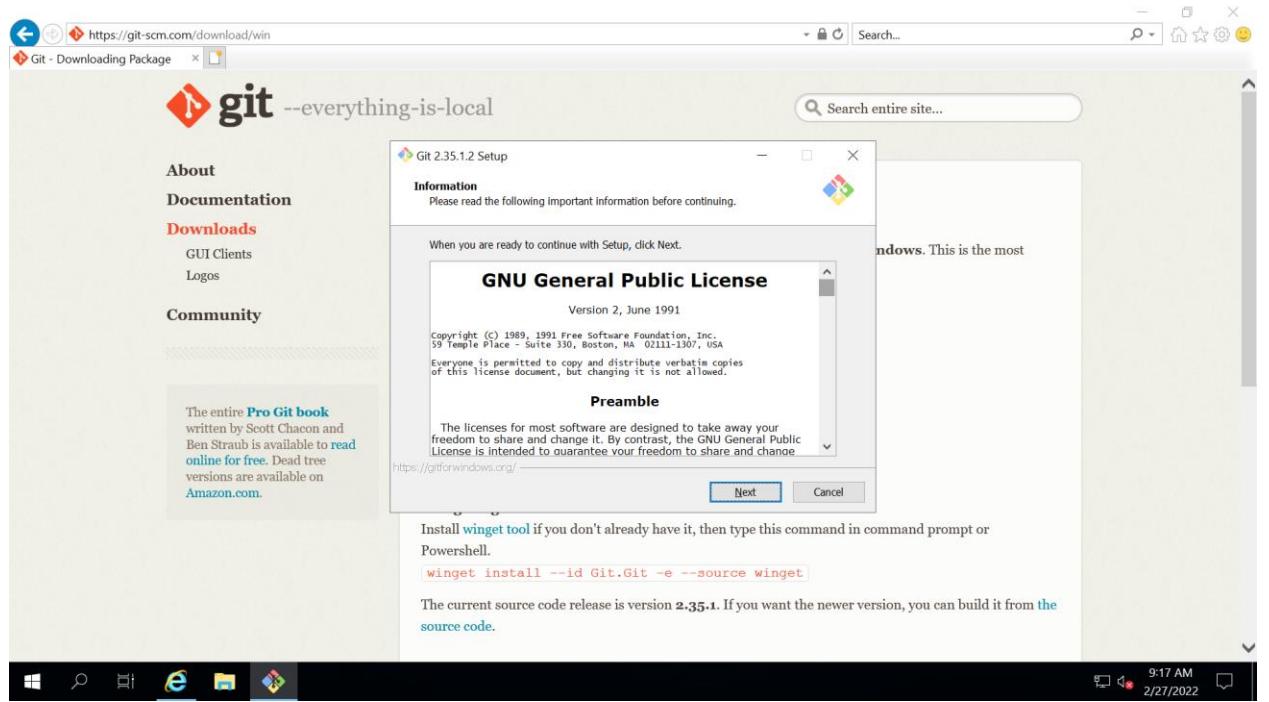
Click on server manager -> click on local server -> IE enhanced security -> Disable



4) Go to internet explorer and open <https://git-scm.com/downloads> And download git for windows

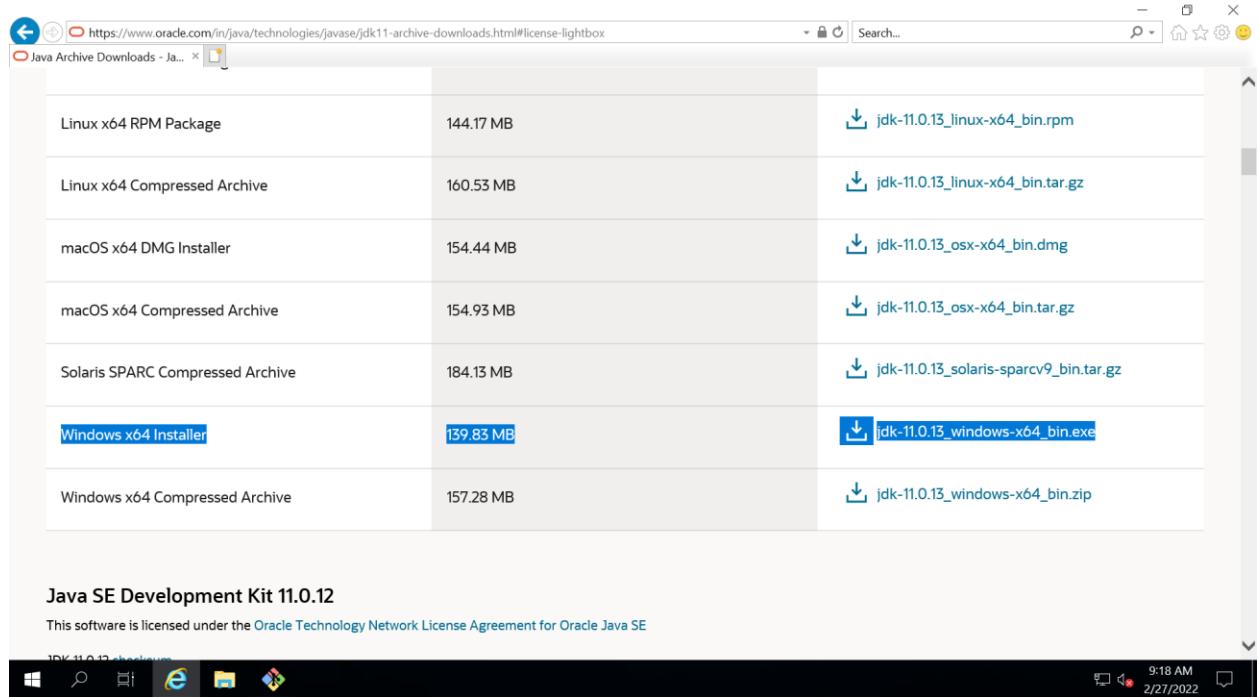


You can download the software and then install it by clicking on next -> next -> next -> next ...and so on



5) Now download java 11

<https://www.oracle.com/in/java/technologies/javase/jdk11-archive-downloads.html>

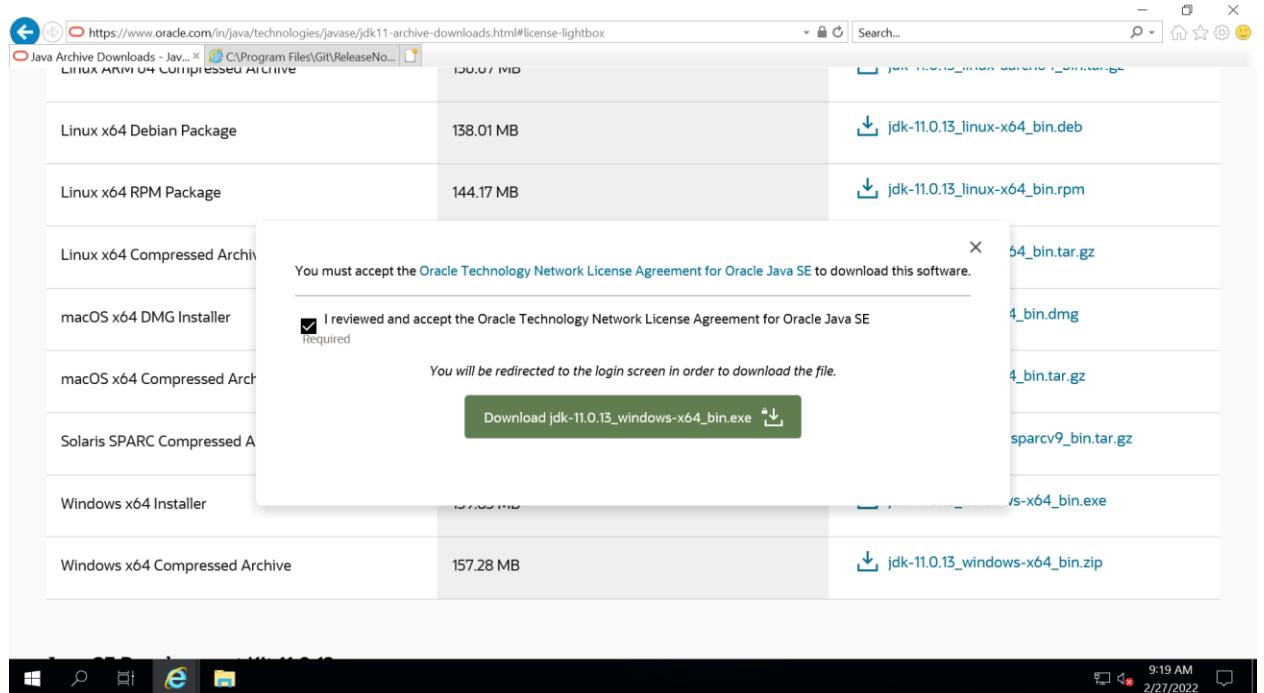


Download Type	File Name
Linux x64 RPM Package	jdk-11.0.13_linux-x64_bin.rpm
Linux x64 Compressed Archive	jdk-11.0.13_linux-x64_bin.tar.gz
macOS x64 DMG Installer	jdk-11.0.13_osx-x64_bin.dmg
macOS x64 Compressed Archive	jdk-11.0.13_osx-x64_bin.tar.gz
Solaris SPARC Compressed Archive	jdk-11.0.13_solaris-sparcv9_bin.tar.gz
Windows x64 Installer	jdk-11.0.13_windows-x64_bin.exe
Windows x64 Compressed Archive	jdk-11.0.13_windows-x64_bin.zip

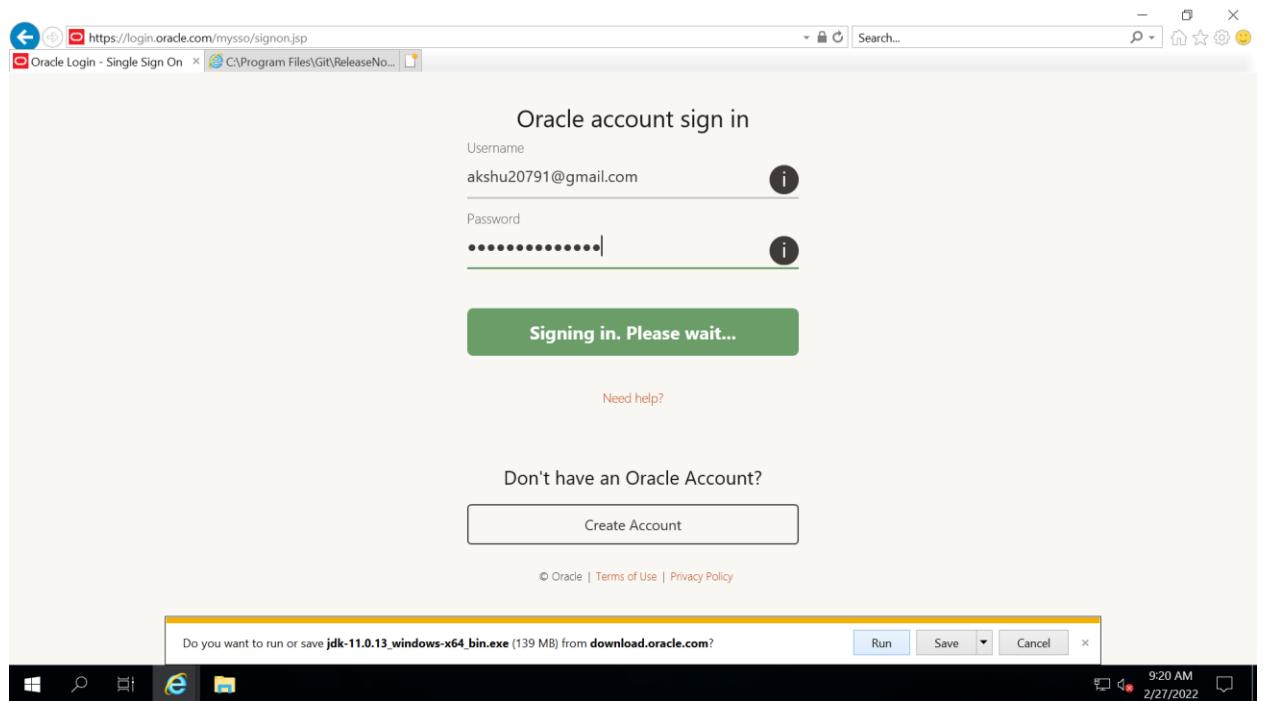
Java SE Development Kit 11.0.12
This software is licensed under the [Oracle Technology Network License Agreement for Oracle Java SE](#)



Download this x64 installer

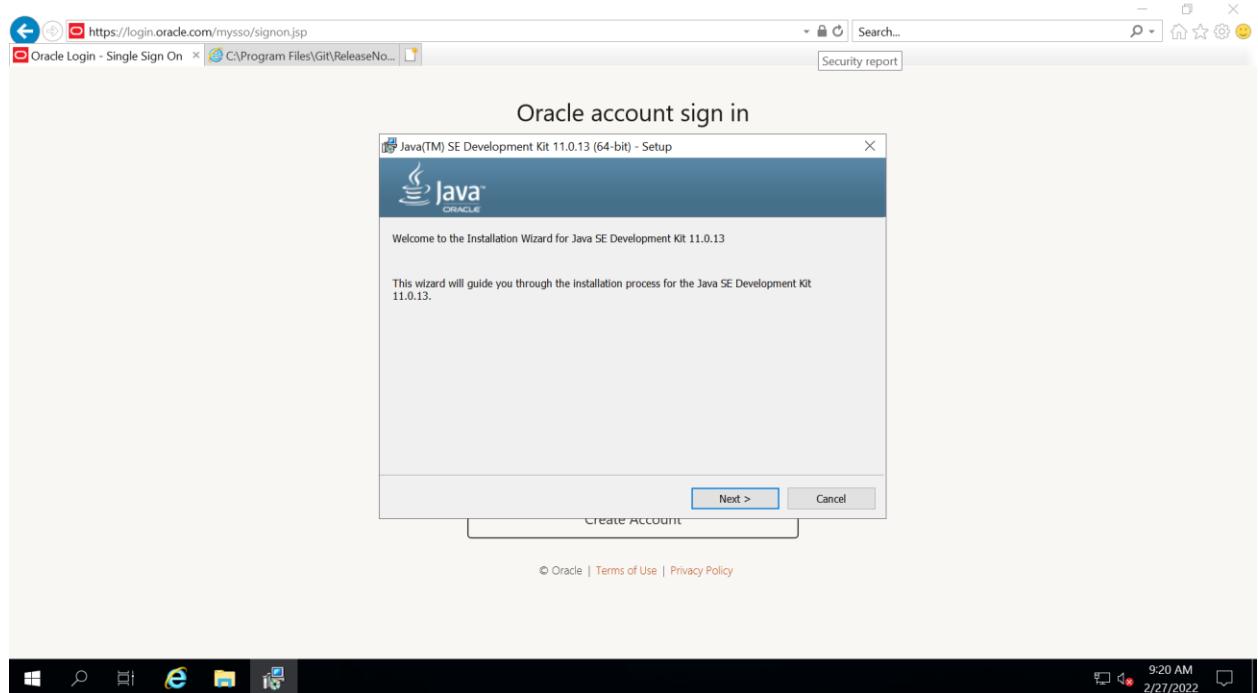


Create an account on oracle website



Java 11 would be downloaded

Now we need to install the software



Click on next next next./..///

6) Now we need to download maven

<https://maven.apache.org/download.cgi?Preferred=ftp://ftp.osuosl.org/pub/apache/>

in this download binary zip archive

Operating System No minimum requirement. Start up scripts are included as shell scripts and Windows batch files.

Files

Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive and follow the [installation instructions](#). Use a source archive if you intend to build Maven yourself.

In order to guard against corrupted downloads/installations, it is highly recommended to [verify the signature](#) of the release bundles against the public [KEYS](#) used by the Apache Maven developers.

	Link	Checksums	Signature
Binary tar.gz archive	apache-maven-3.8.4-bin.tar.gz	apache-maven-3.8.4-bin.tar.gz.sha512	apache-maven-3.8.4-bin.tar.gz.asc
Binary zip archive	apache-maven-3.8.4-bin.zip	apache-maven-3.8.4-bin.zip.sha512	apache-maven-3.8.4-bin.zip.asc
Source tar.gz archive	apache-maven-3.8.4-src.tar.gz	apache-maven-3.8.4-src.tar.gz.sha512	apache-maven-3.8.4-src.tar.gz.asc
Source zip archive	apache-maven-3.8.4-src.zip	apache-maven-3.8.4-src.zip.sha512	apache-maven-3.8.4-src.zip.asc

- [Release Notes](#)
- [Reference Documentation](#)
- [Apache Maven Website As Documentation Archive](#)
- [All current release sources \(plugins, shared libraries,...\) available at <https://downloads.apache.org/maven/>](#)
- [latest source code from source repository](#)
- Distributed under the [Apache License, version 2.0](#)

Previous Releases

Now it will open like this

File Home Share View Compressed Folder Tools

INetCache > IE > 1NPSVAVI > apache-maven-3.8.4-bin >

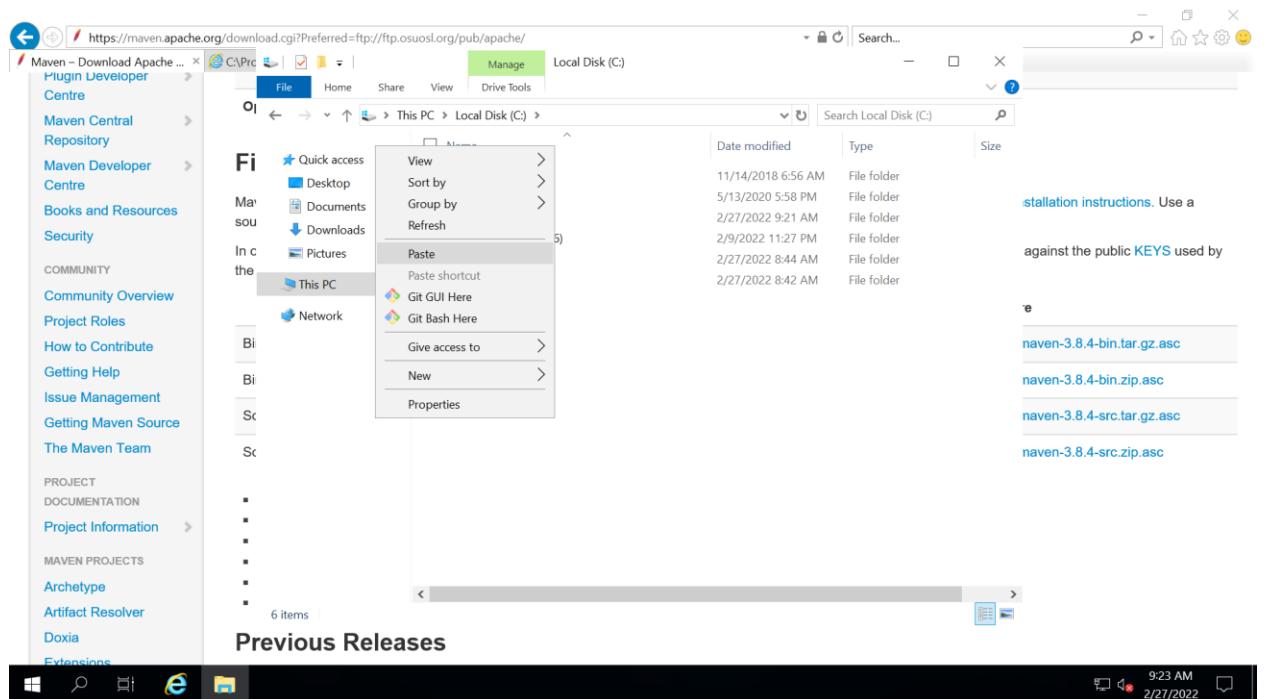
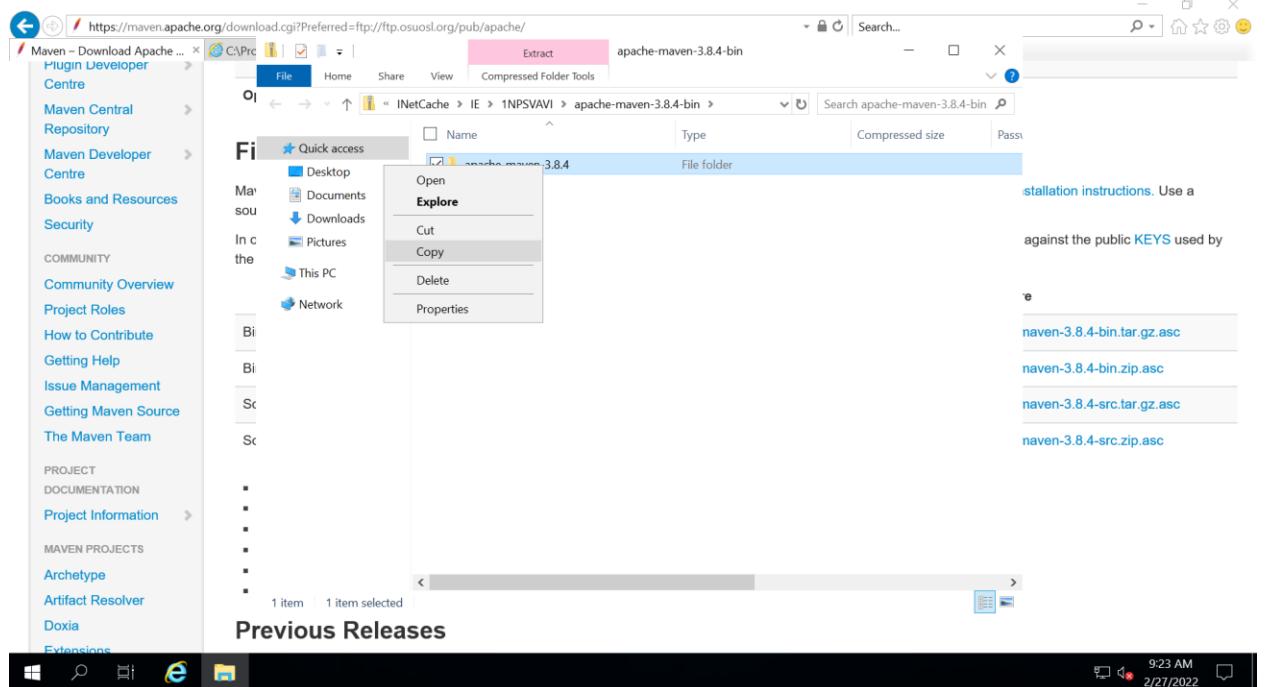
Name	Type	Compressed size	Passphrase
apache-maven-3.8.4	File folder		

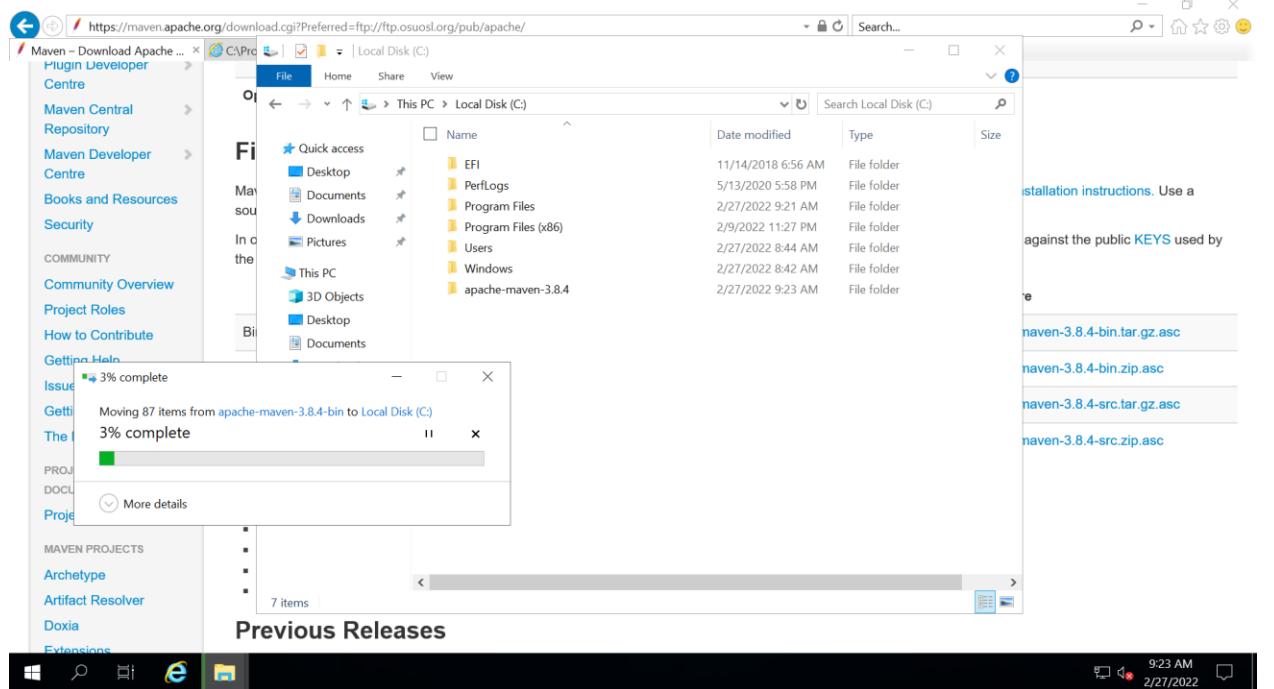
Search apache-maven-3.8.4-bin

1 item

Previous Releases

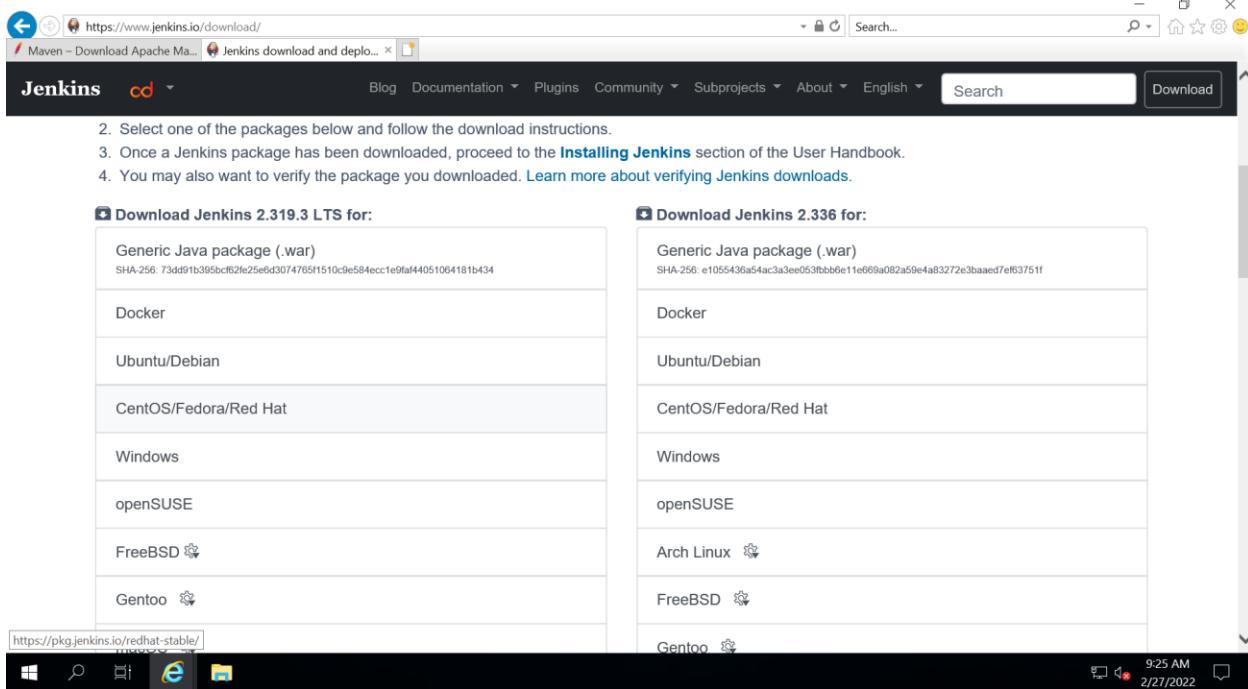
Now copy this folder and paste it in C drive





7) Now download Jenkins

<https://www.jenkins.io/download/>



Click on the windows written on the above screen

Thank you for downloading Windows Stable installer

Download hasn't started? Click this link [Twitter](#)

Changing boot configuration

By default, your Jenkins runs at <https://localhost:8080/>. This can be changed by editing `jenkins.xml`, which is located in your installation directory. This file is also the place to change other boot configuration parameters, such as JVM options, HTTPS setup, etc.

Starting/stopping the service

Jenkins is installed as a Windows service, and it is configured to start automatically upon boot. To start/stop them manually, use the service manager from the control panel, or the `sc` command line tool.

Inheriting your existing Jenkins installation

If you'd like your new installation to take over your existing Jenkins data, copy your old data directory into the new `JENKINS_HOME` directory.

See Also

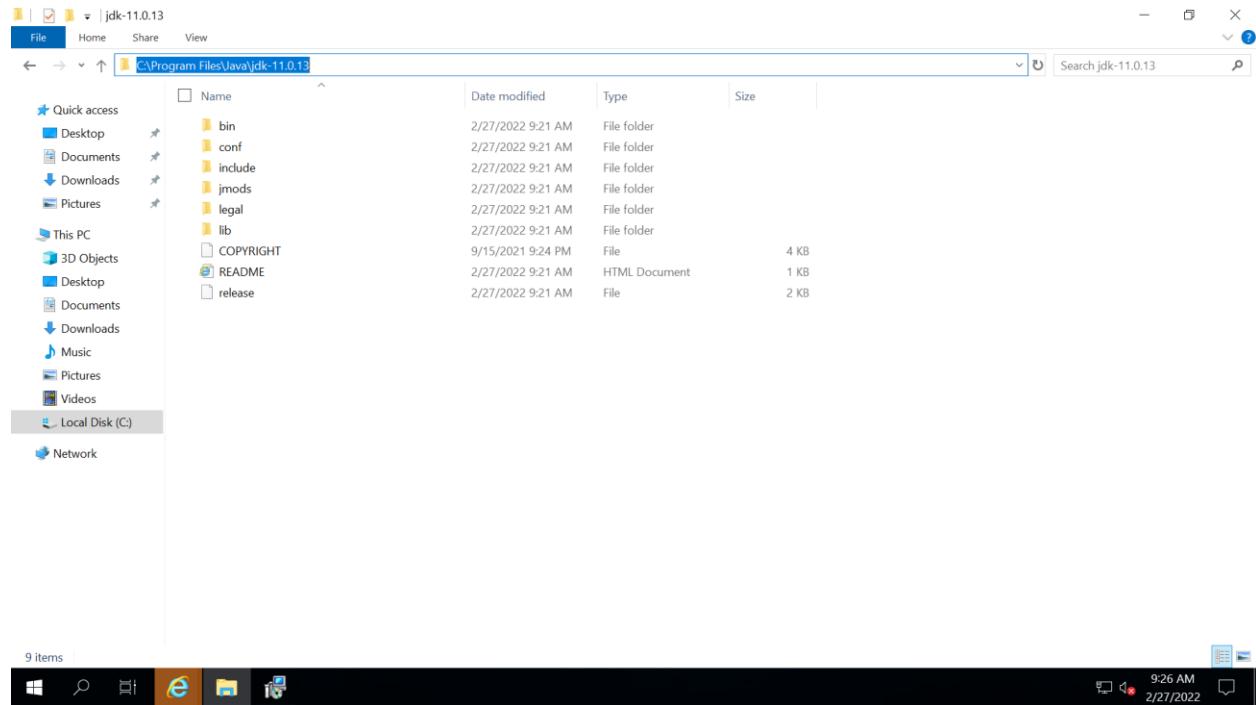
- [Running Jenkins behind Internet Information Server \(IIS\)](#)
- [Running Jenkins behind Apache Tomcat](#)
- [Running Jenkins behind Apache Web Server](#)



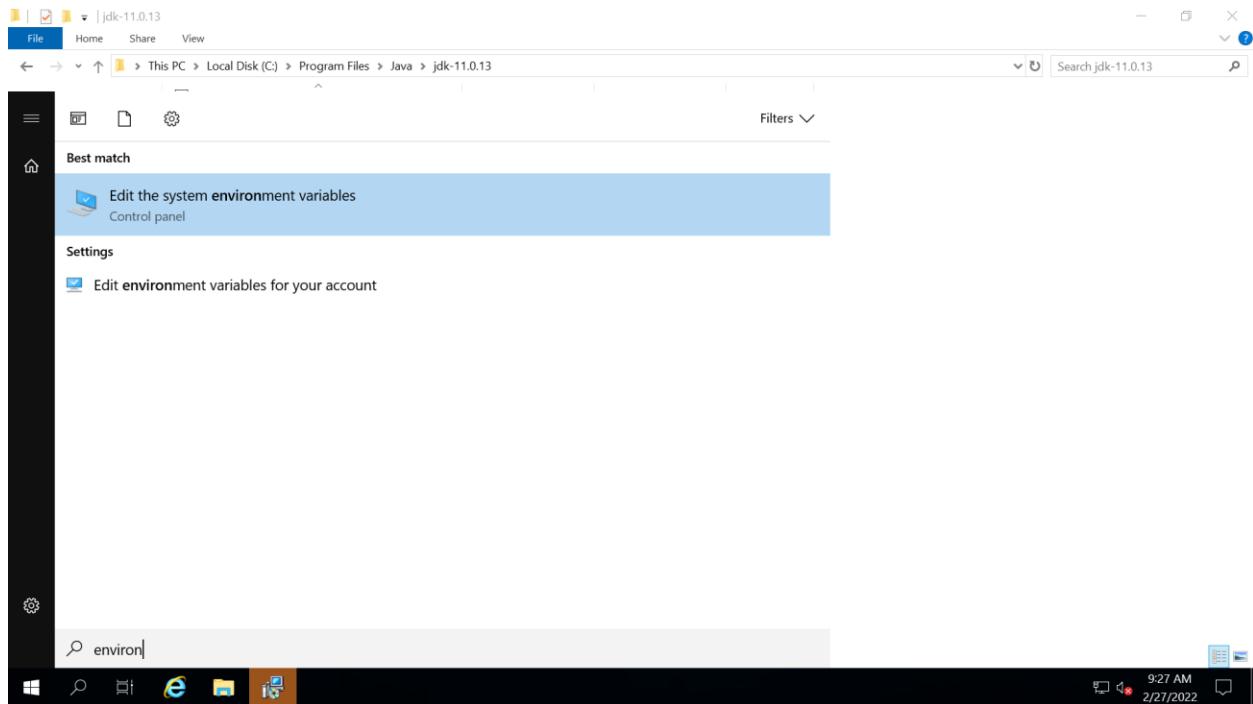
Jenkins will start installing

8) Now lets go and add environment variables

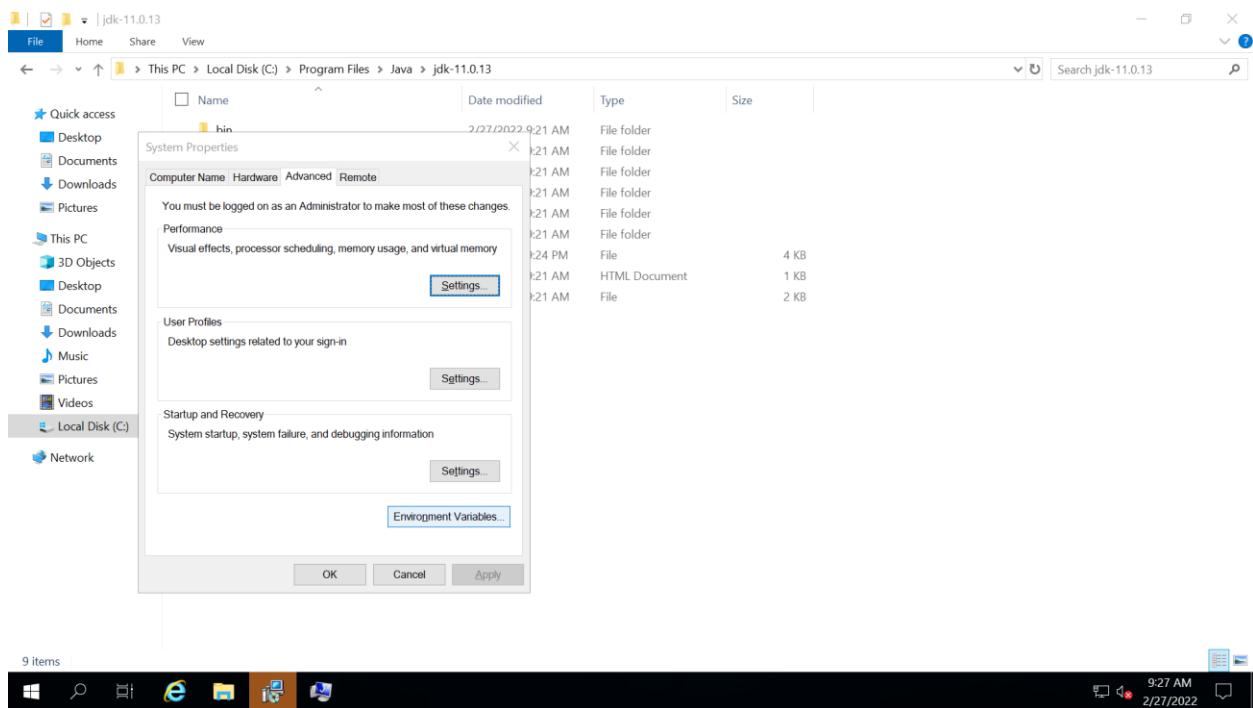
Copy the java path : C:\Program Files\Java\jdk-11.0.13



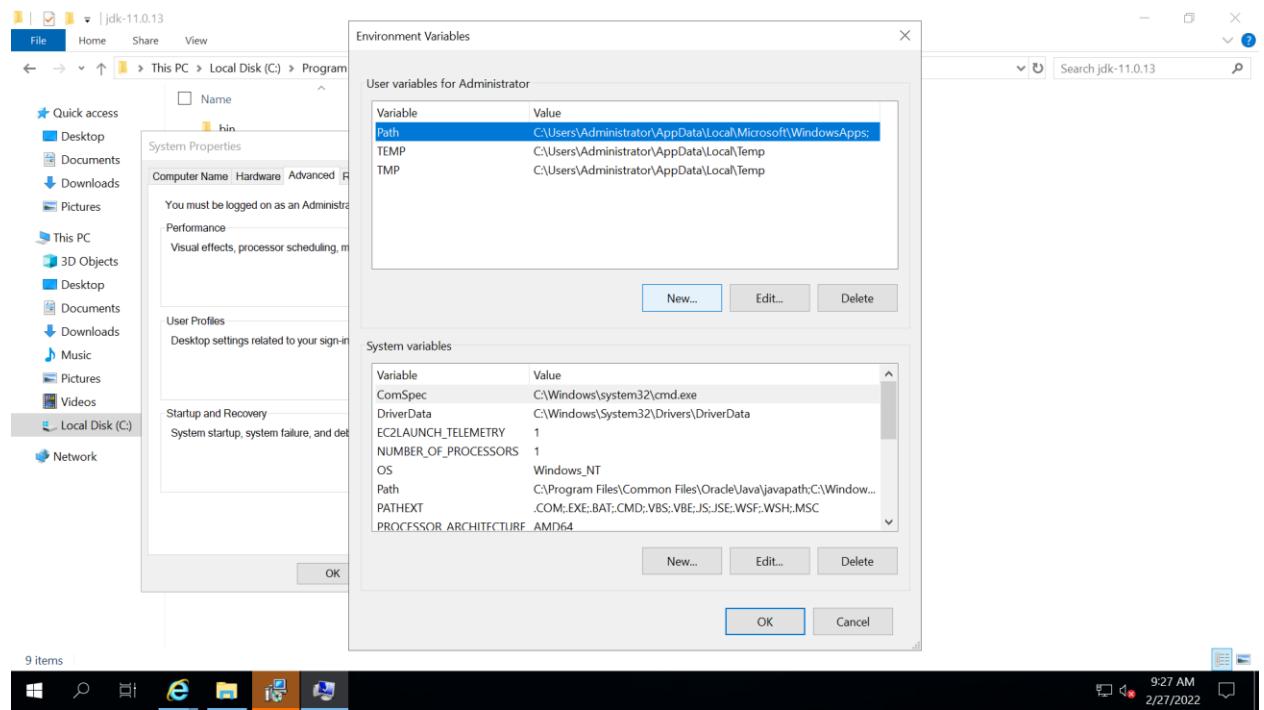
Go to startup menu at the bottom and search for environment variables



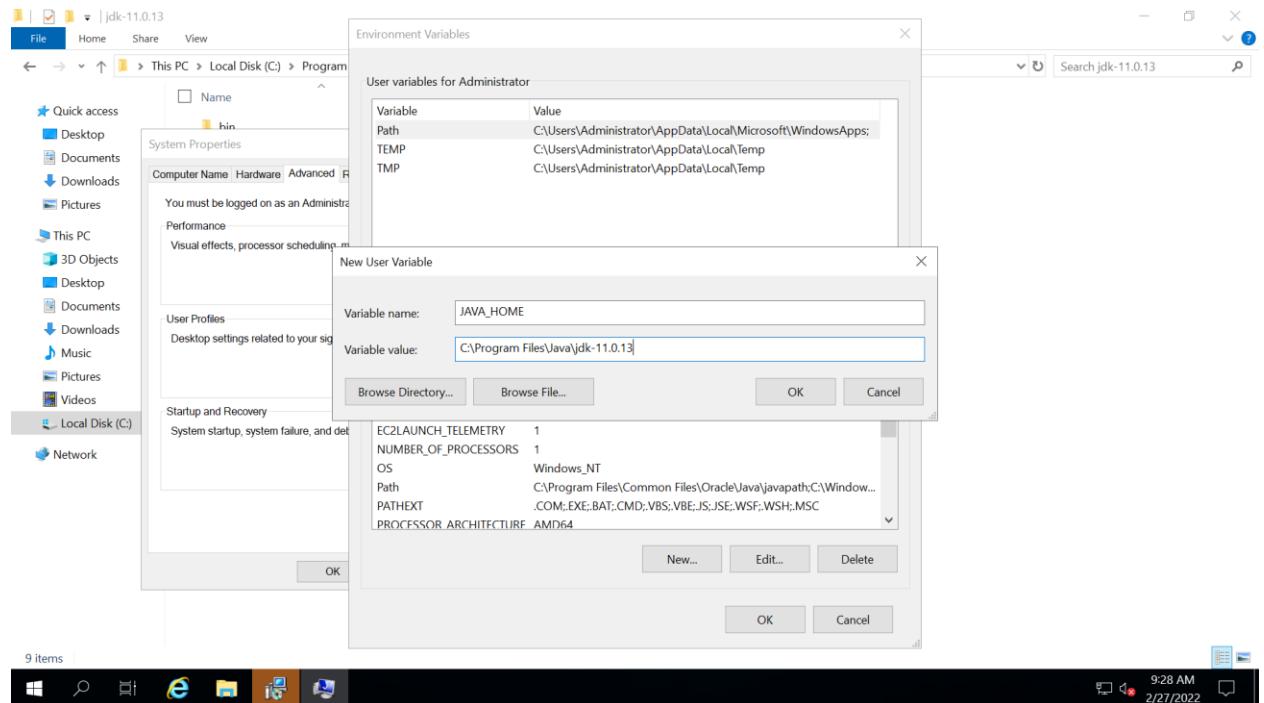
Click on enviroment variables



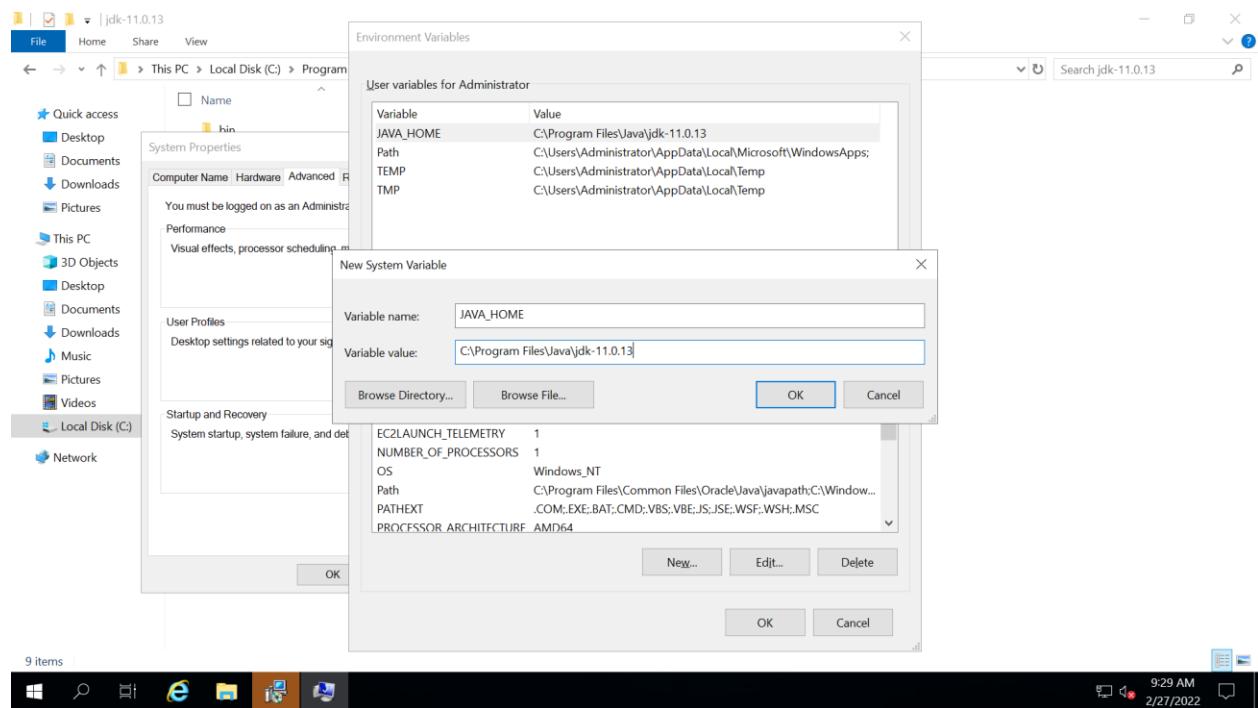
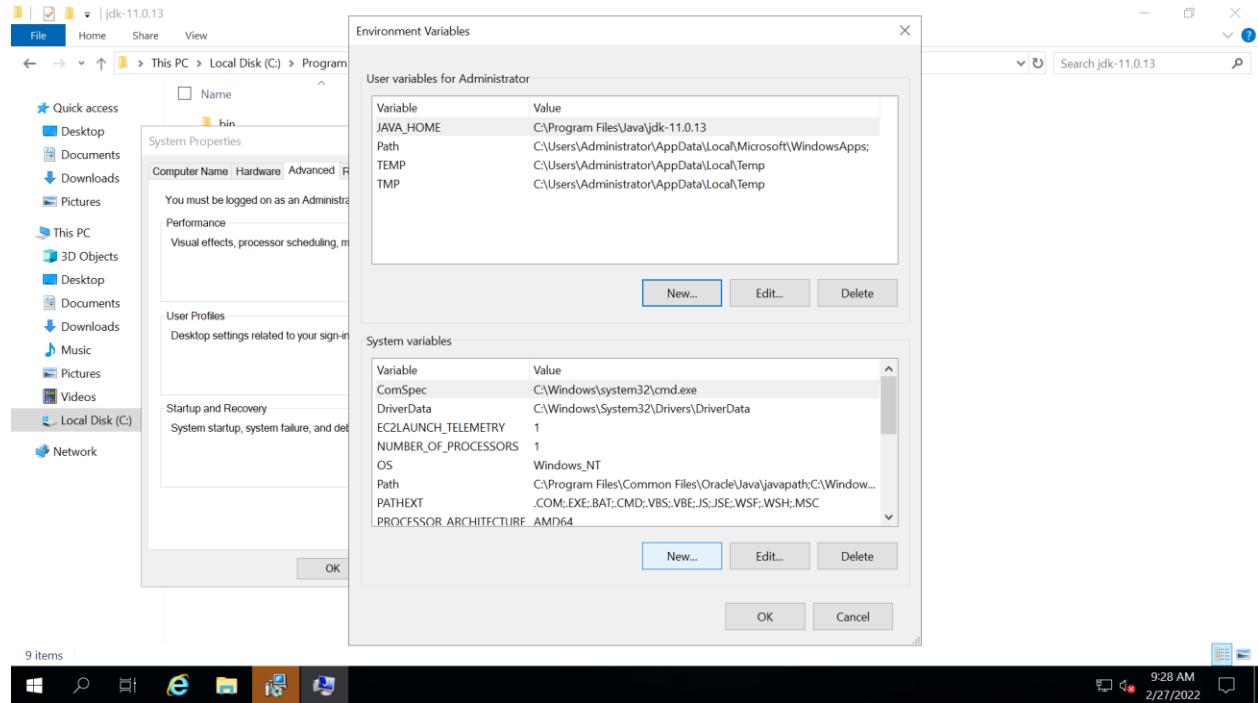
Click on new on user variables



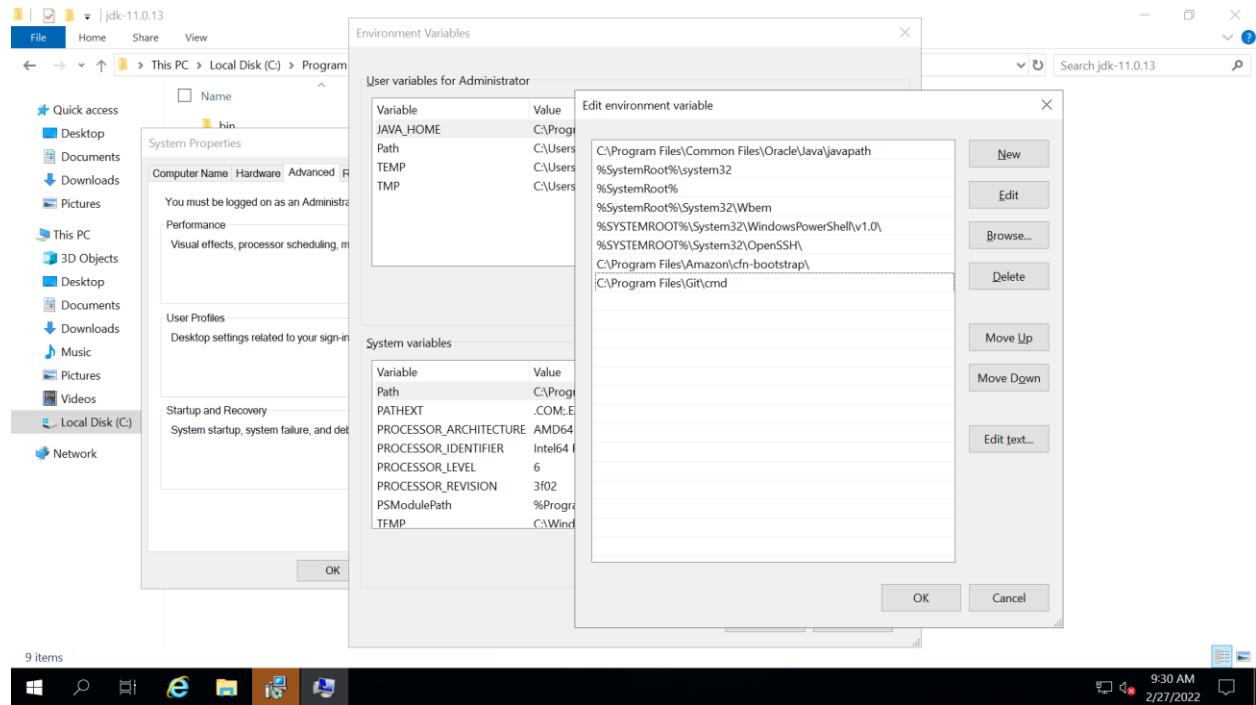
Add name and path like image below



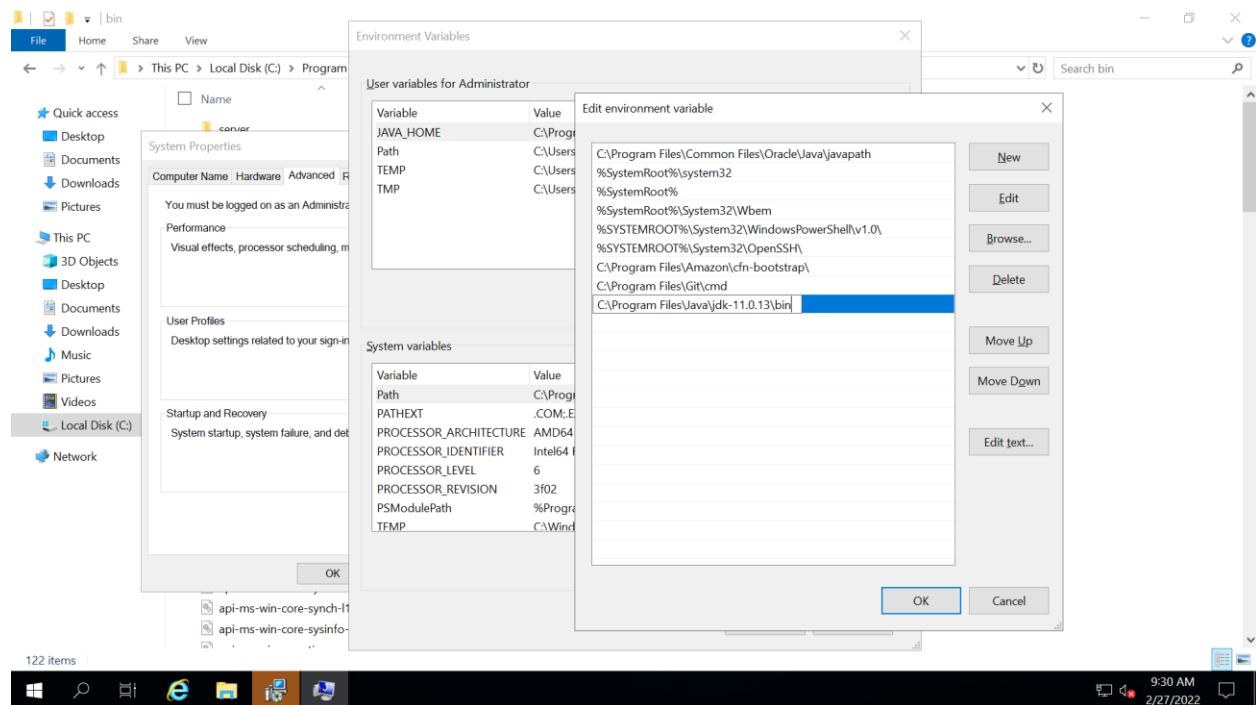
For system variables also do the same thing



Double click on PATH -> click on new



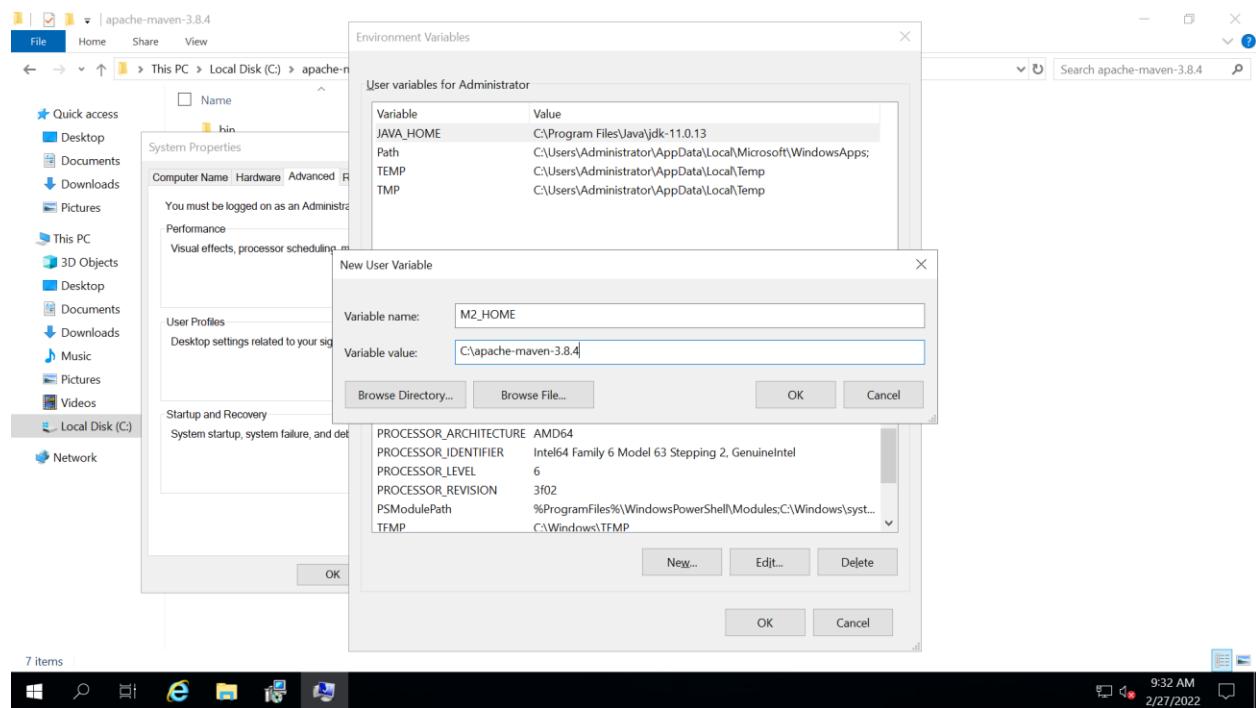
Paste the bin folder link of java like: C:\Program Files\Java\jdk-11.0.13\bin

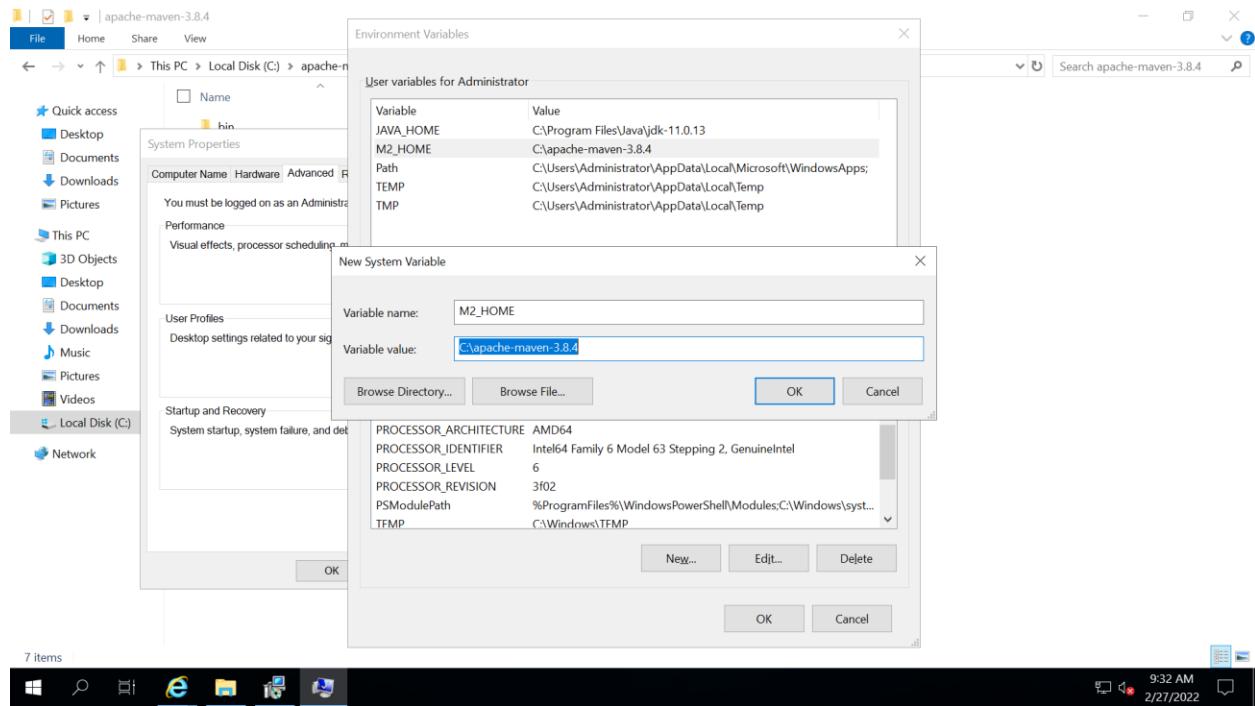


Now lets add maven environment variables

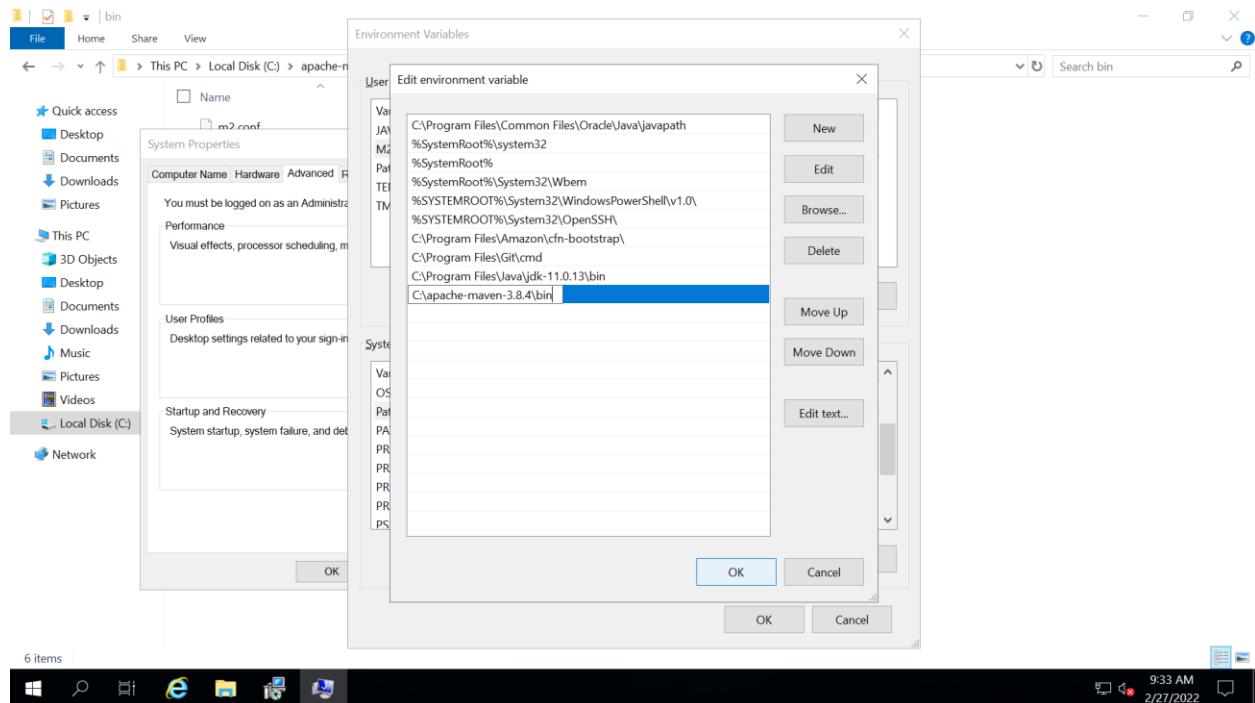
Add new user variables and system variables as above...but link this time would be of maven

C:\apache-maven-3.8.4

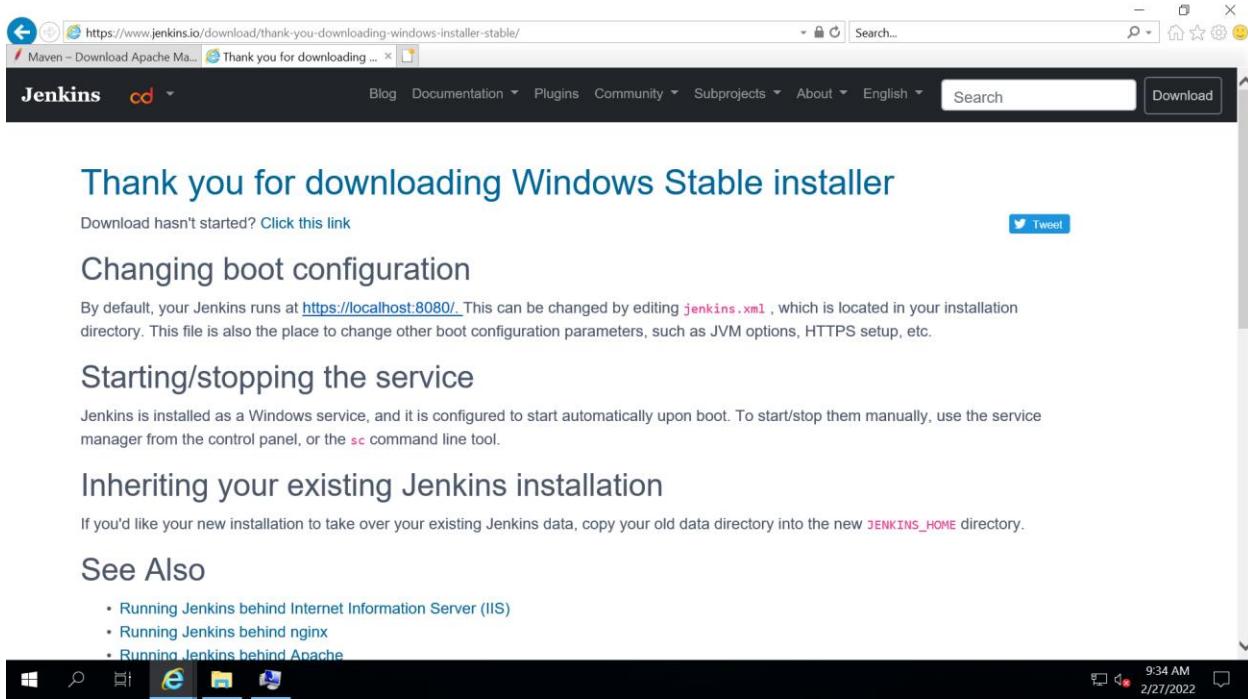




Double click on path in system variables -> (new)add bin folder link of maven



9) Now lets go back to jenkins



https://www.jenkins.io/download/thank-you-downloading-windows-installer-stable/

Maven – Download Apache Ma... Thank you for downloading ...

Jenkins

Blog Documentation Plugins Community Subprojects About English

Search Download

Thank you for downloading Windows Stable installer

Download hasn't started? Click this link

Changing boot configuration

By default, your Jenkins runs at <https://localhost:8080/>. This can be changed by editing `jenkins.xml`, which is located in your installation directory. This file is also the place to change other boot configuration parameters, such as JVM options, HTTPS setup, etc.

Starting/stopping the service

Jenkins is installed as a Windows service, and it is configured to start automatically upon boot. To start/stop them manually, use the service manager from the control panel, or the `sc` command line tool.

Inheriting your existing Jenkins installation

If you'd like your new installation to take over your existing Jenkins data, copy your old data directory into the new `JENKINS_HOME` directory.

See Also

- Running Jenkins behind Internet Information Server (IIS)
- Running Jenkins behind nginx
- Running Jenkins behind Apache

Click on localhost link

Jenkins is now successfully configured

