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CPE-301

Download and Install Java JDK and JRE

Keeping out-of-date Java versions installed on your system may present a security risk.

☒ **Java 8 Update 51 (64-bit) (static)**

Click "Uninstall" to uninstall the selected Java versions.

Warning: Uninstalling out-of-date versions of Java may cause some older Java applications to no longer run. [More information](#)

Not Now

Uninstall >

Java Downloads for All Operating Systems

Recommended Version 8 Update 361

Release date: January 17, 2023






Important Oracle Java License Information

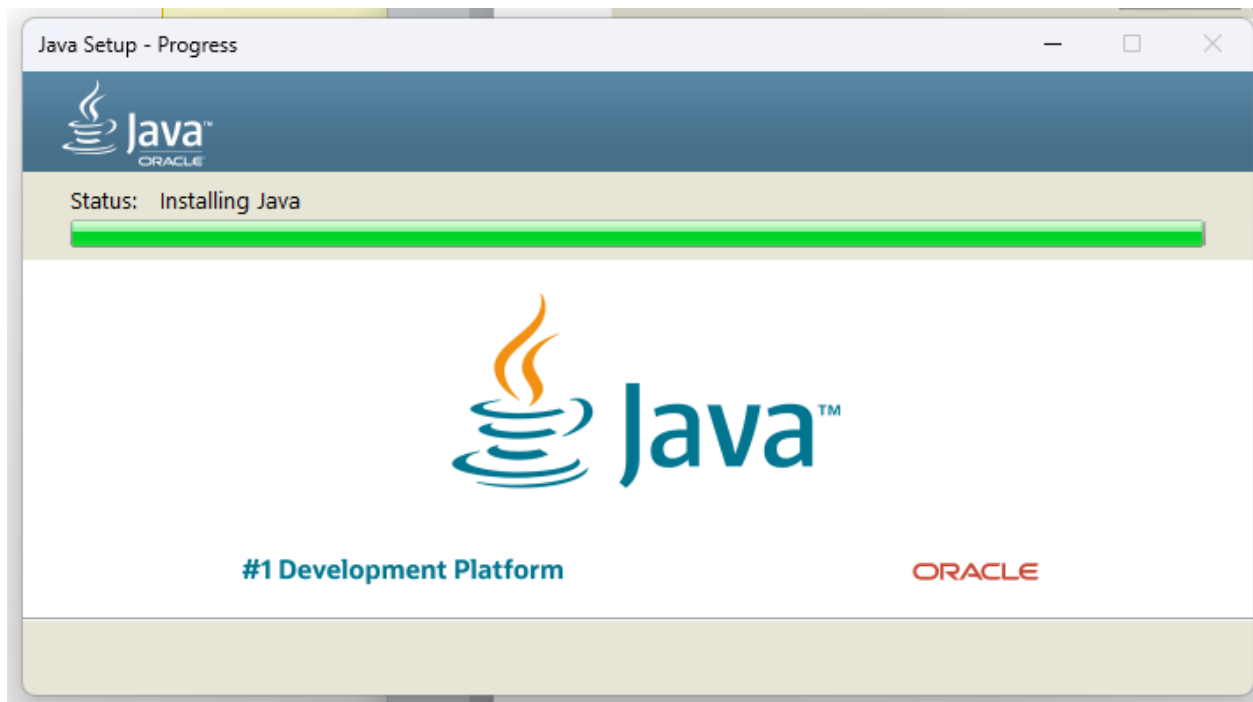
The Oracle Java License changed for releases starting April 16, 2019.

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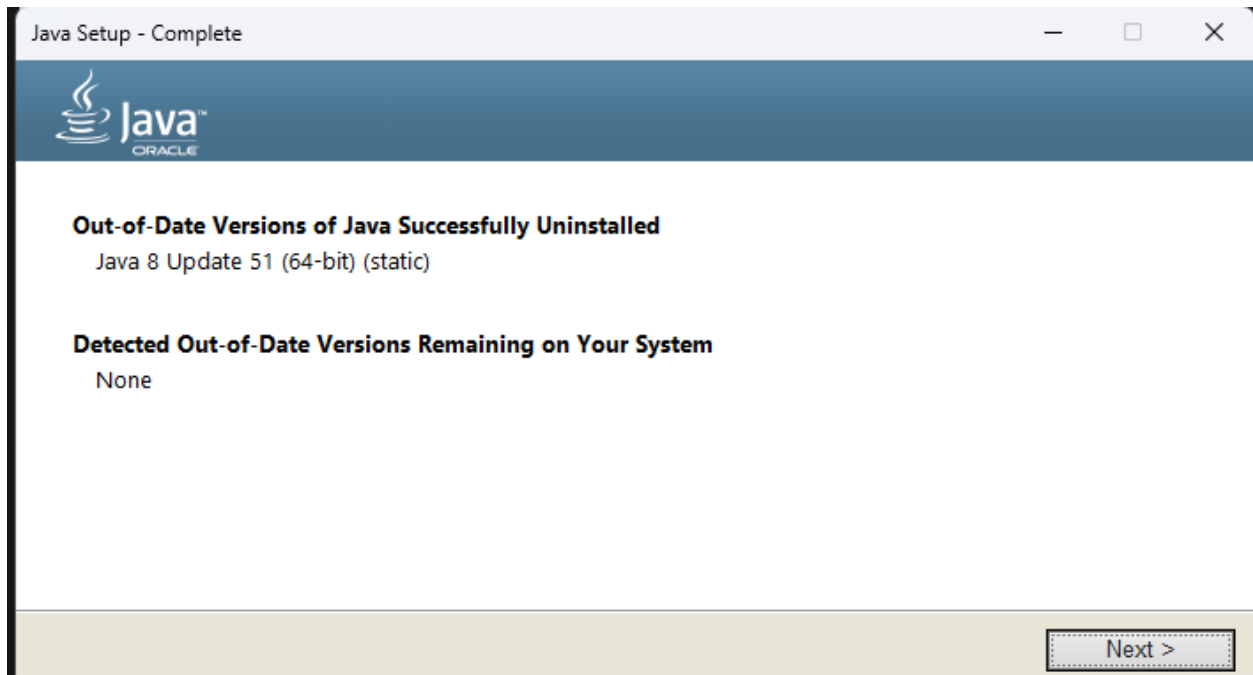
Commercial license and support is available with a low cost [Java SE Subscription](#).

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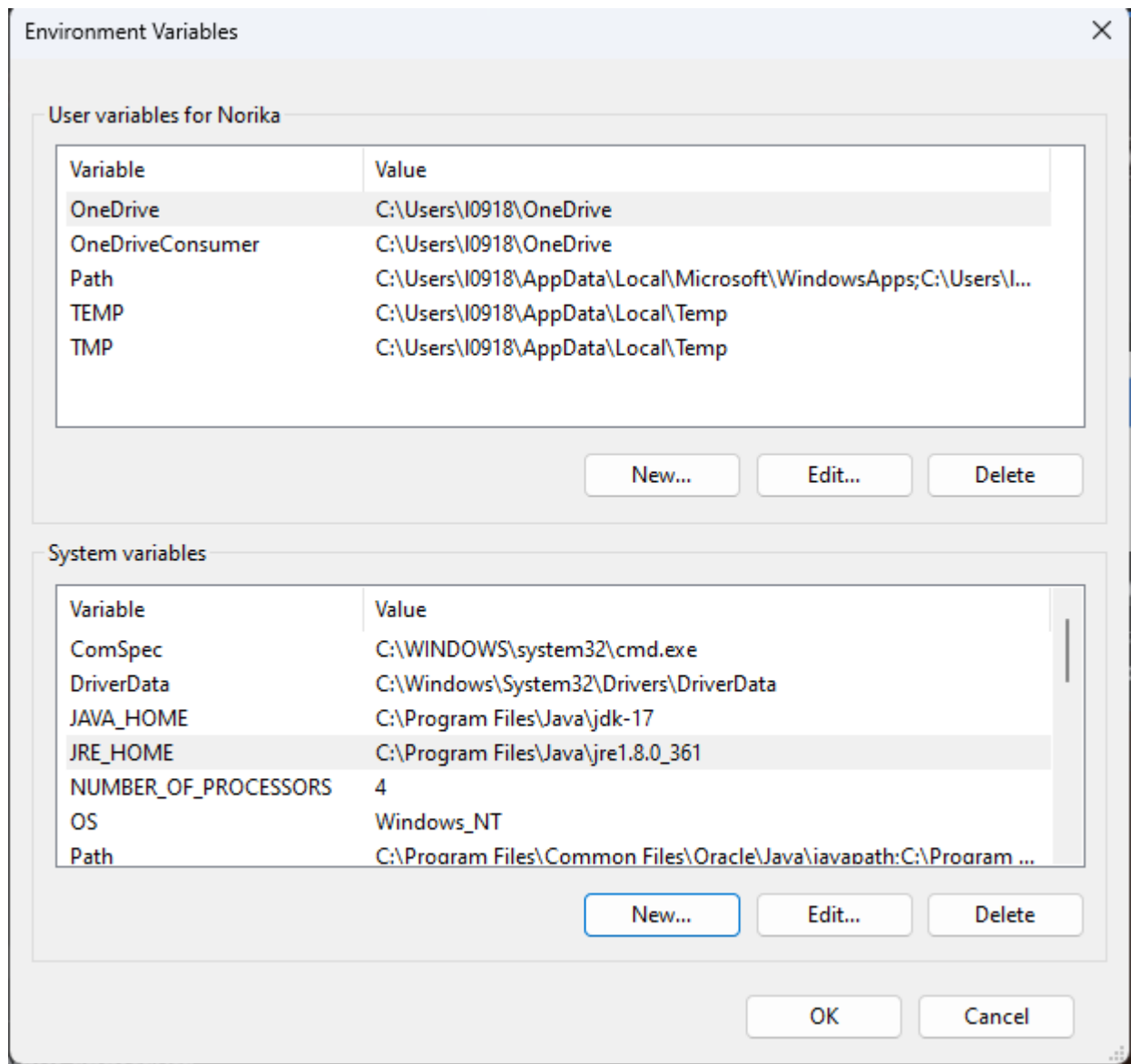
 Windows  Which download should I choose?			
	Windows Online filesize: 2.16 MB	Instructions	After installing Java, you may need to restart your browser in order to enable Java in your browser.
	Windows Offline filesize: 56.43 MB	Instructions	
	Windows Offline (64-bit) filesize: 62.11 MB	Instructions	
If you use 32-bit and 64-bit browsers interchangeably, you will need			



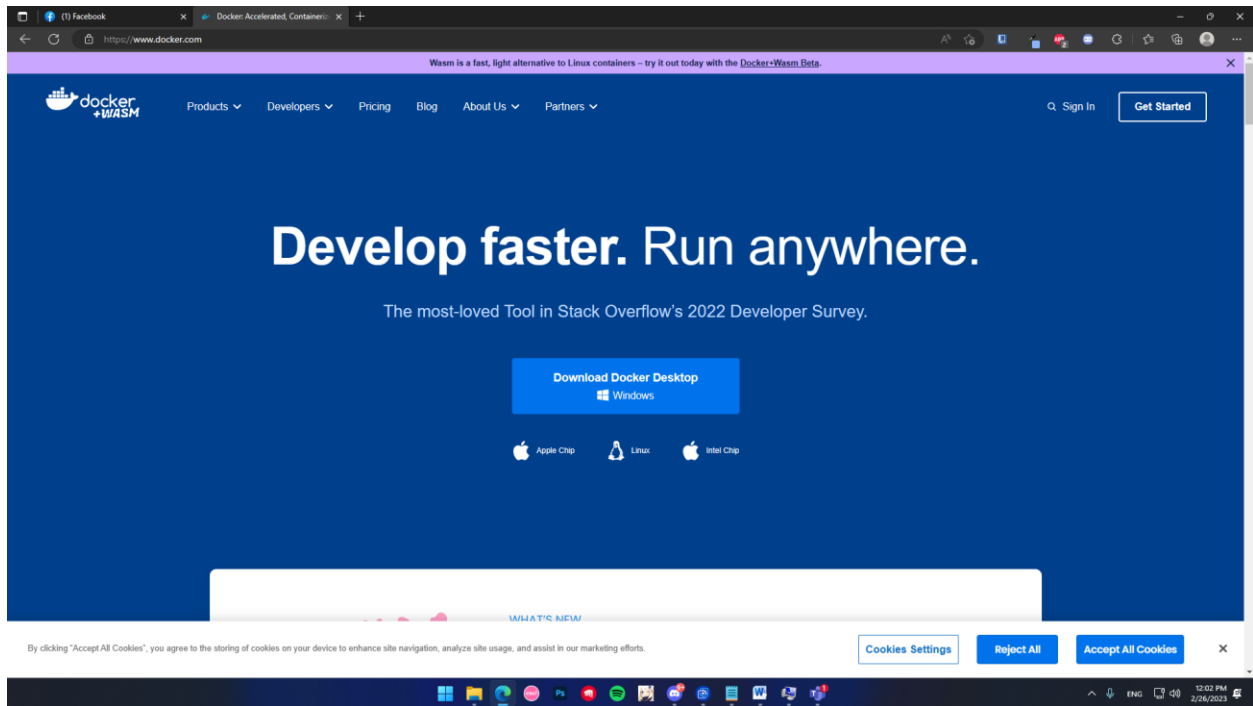
If already installed, run installer and install new version then uninstall old



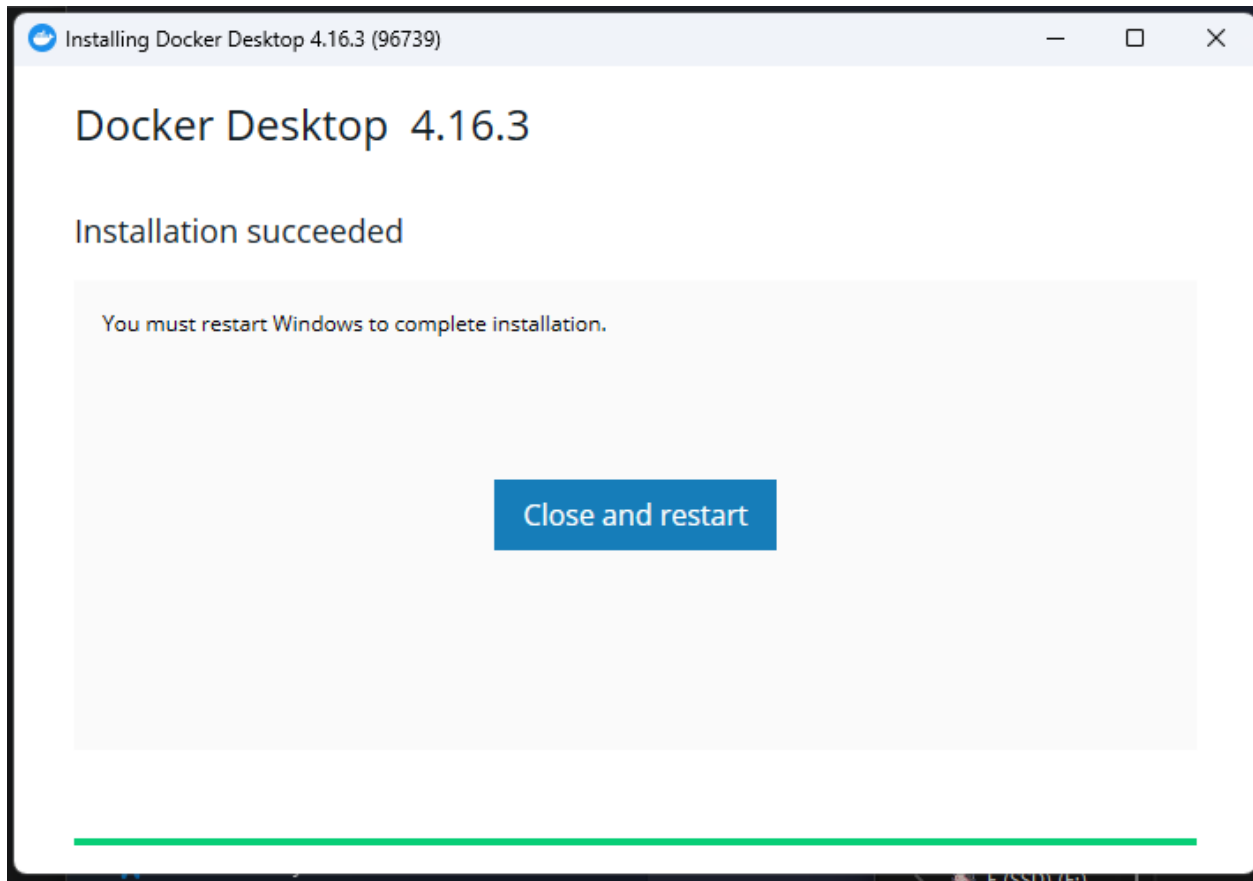
Make new System variable to ensure that Computer can access the JDK and JRE installed



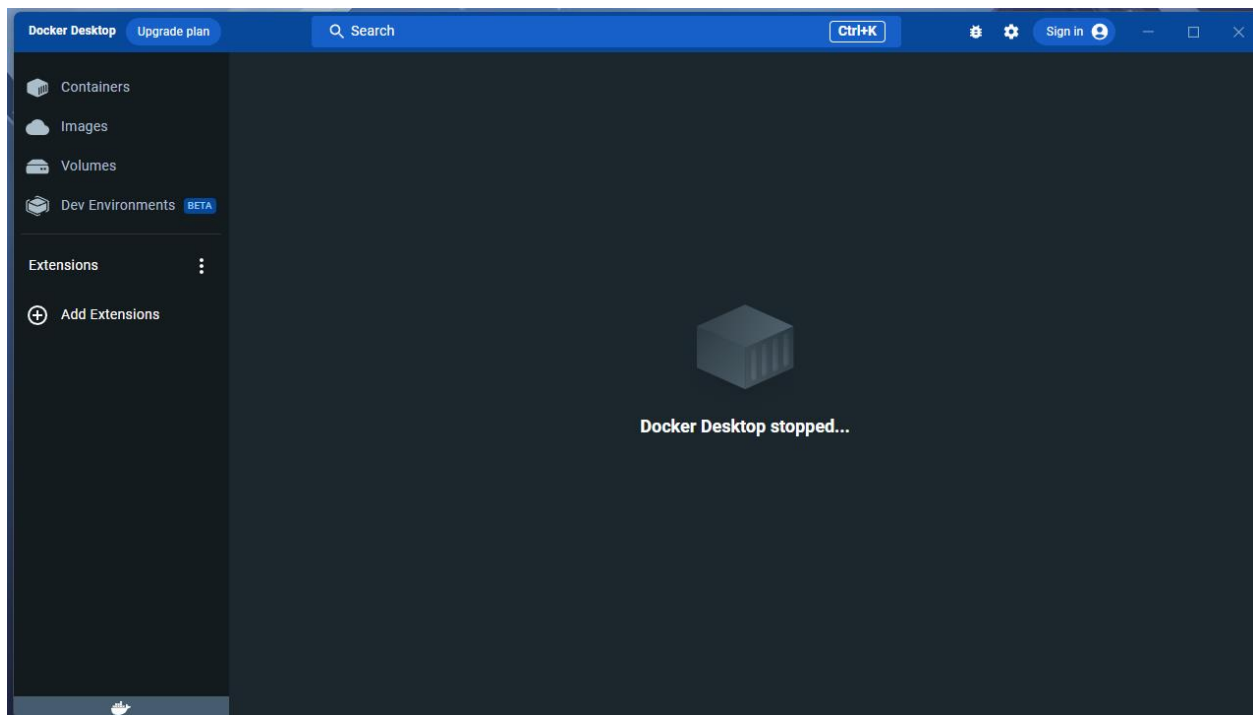
Download and install docker from website



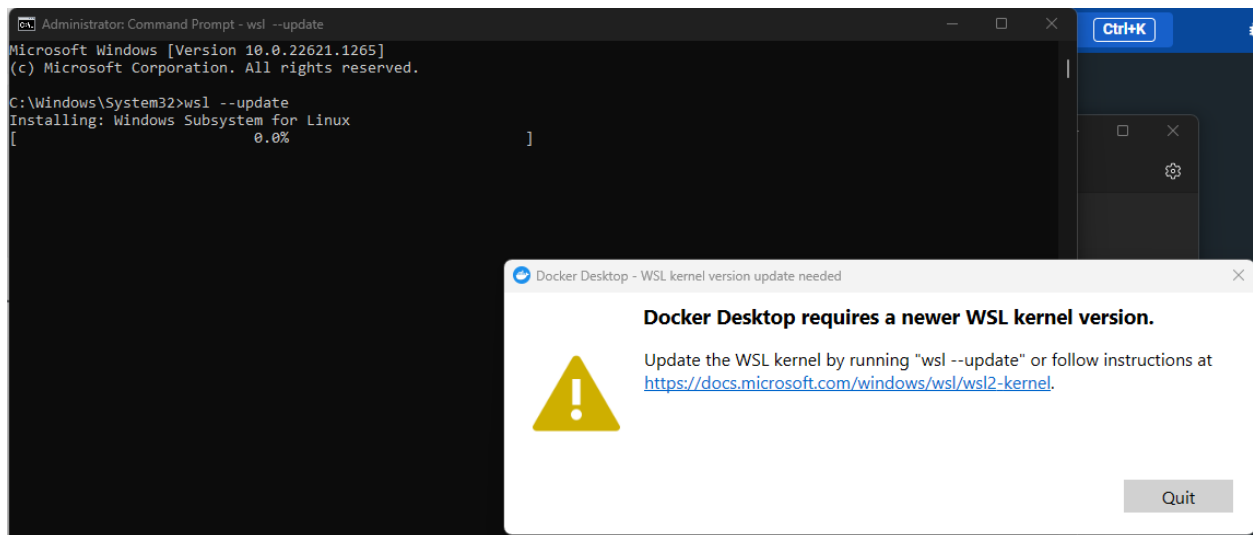
Restart after installation



Verify Docker installation



Update WSL service using CMD

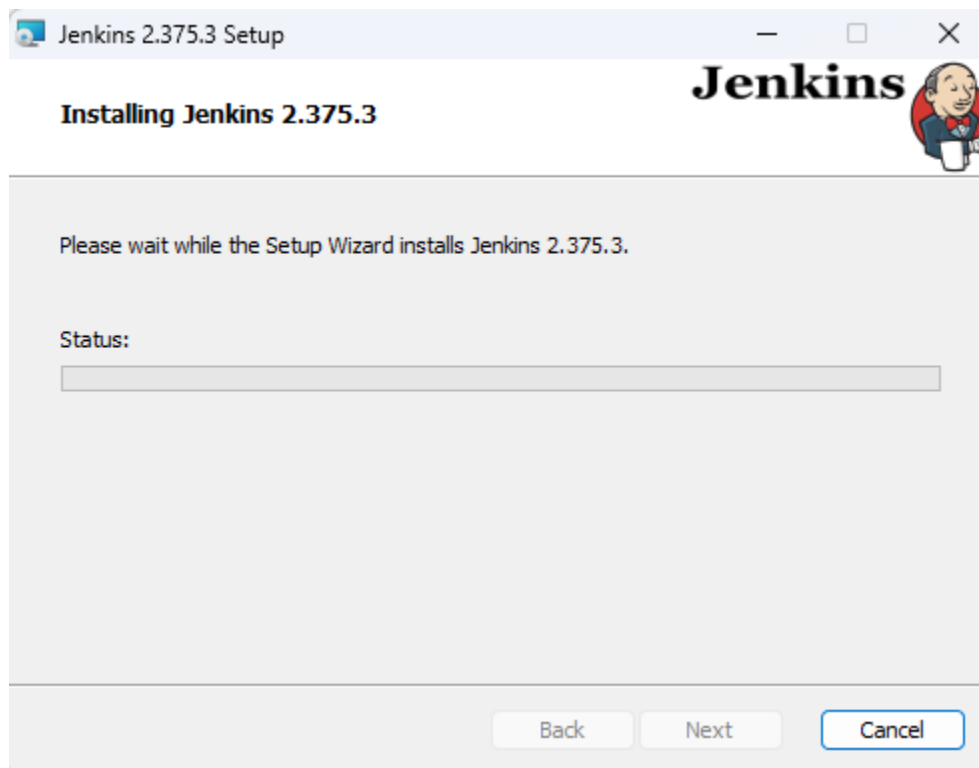


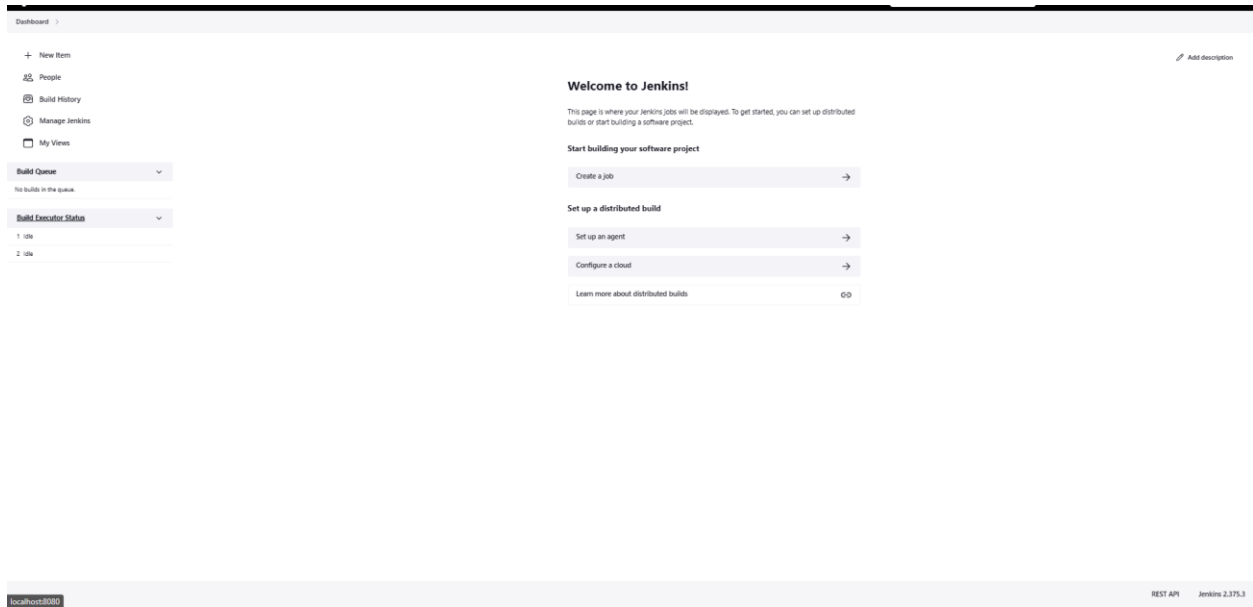
```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>wsl --update
Installing: Windows Subsystem for Linux
Windows Subsystem for Linux has been installed.

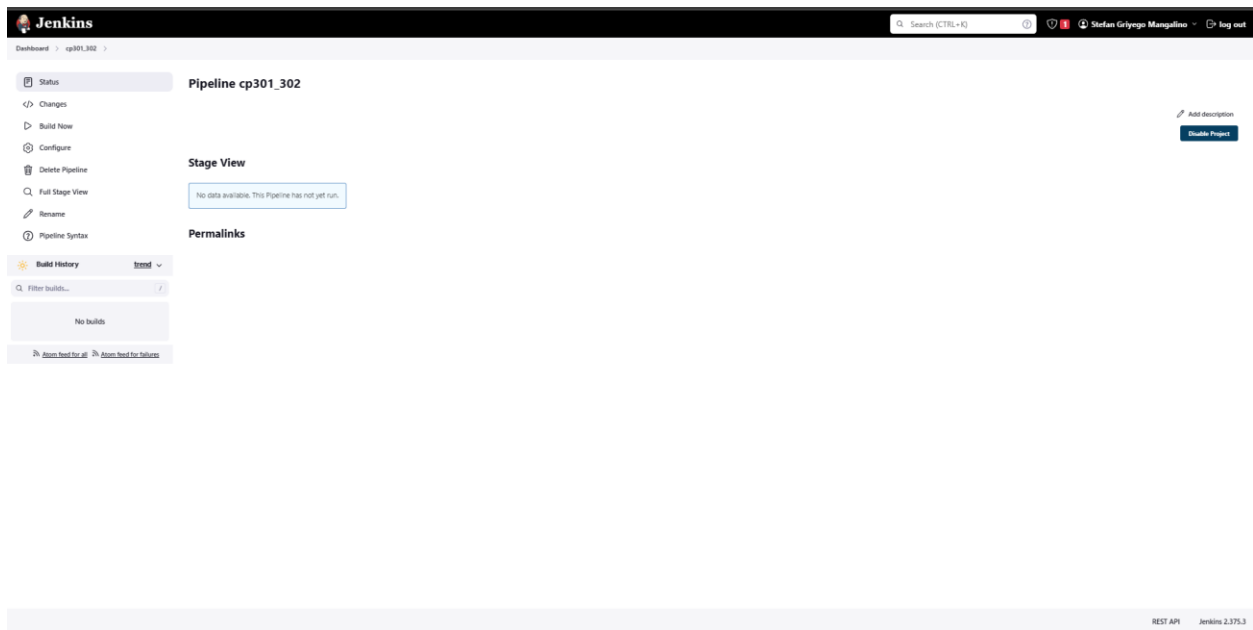
C:\Windows\System32>
```

Install Jenkins

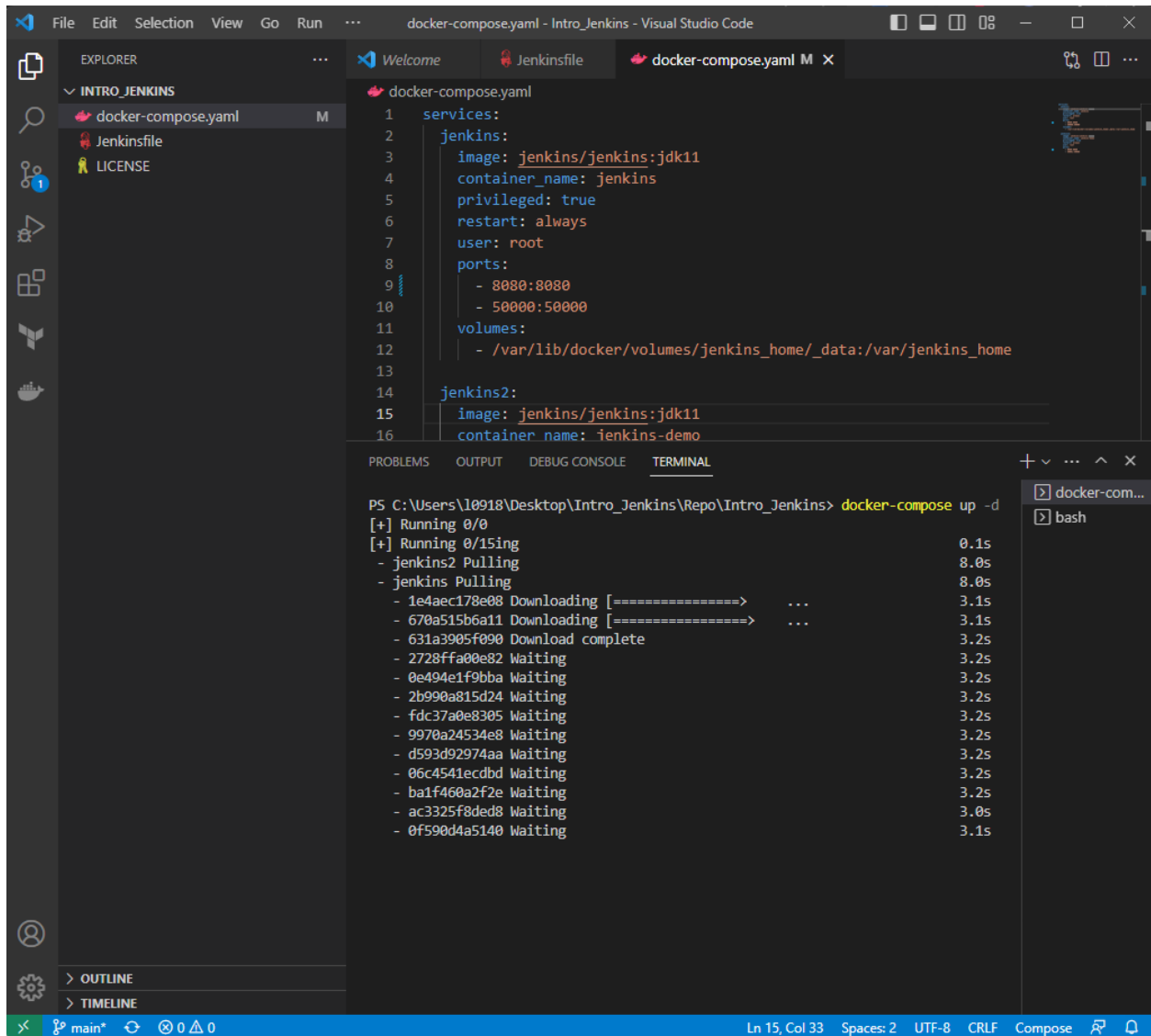




Create Pipeline Jenkins to git repo



Create Container in Docker



```
1 services:
2   jenkins:
3     image: jenkins/jenkins:jdk11
4     container_name: jenkins
5     privileged: true
6     restart: always
7     user: root
8     ports:
9       - 8080:8080
10      - 50000:50000
11     volumes:
12       - /var/lib/docker/volumes/jenkins_home/_data:/var/jenkins_home
13
14   jenkins2:
15     image: jenkins/jenkins:jdk11
16     container_name: jenkins-demo
```

PS C:\Users\l0918\Desktop\Intro_Jenkins\Repo\Intro_Jenkins> docker-compose up -d

```
[+] Running 0/0
[+] Running 0/15ing
- jenkins2 Pulling
- jenkins Pulling
- 1e4aec178e08 Downloading [=====> ... 3.1s
- 670a515b6a11 Downloading [=====> ... 3.1s
- 631a3905f090 Download complete 3.2s
- 2728ffa00e82 Waiting 3.2s
- 0e494e1f9bba Waiting 3.2s
- 2b990a815d24 Waiting 3.2s
- fdc37a0e8305 Waiting 3.2s
- 9970a24534e8 Waiting 3.2s
- d593d92974aa Waiting 3.2s
- 06c4541ecdbd Waiting 3.2s
- ba1f460a2f2e Waiting 3.2s
- ac3325f8ded8 Waiting 3.0s
- 0f590d4a5140 Waiting 3.1s
```

☐ Only show running containers

⋮

<input type="checkbox"/>	Name	Image	Status	Port(s)	Started	Actions
<input checked="" type="checkbox"/>	intro_jenkins	-	Running (2/2)			<input type="checkbox"/> ⋮ <input type="checkbox"/>
<input type="checkbox"/>	jenkins-demo 469c17c390b1 <input type="checkbox"/>	jenkins/jenkins:jdk11	Running	50001:50000 8081:8080	5 minutes ago	<input type="checkbox"/> ⋮ <input type="checkbox"/>
<input type="checkbox"/>	jenkins fdd3f3fc5e96 <input type="checkbox"/>	jenkins/jenkins:jdk11	Running	50000:50000 9080:8080	5 minutes ago	<input type="checkbox"/> ⋮ <input type="checkbox"/>

Upload Jenkinsfile to Git Repository

```

Jenkinsfile
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stage('Provision AWS Instance') {
  steps {
    echo '[INFO] Deploying to AWS'
    // sh 'scp -r web_app user@ip_addr:/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'
    //cleanaws()
  }
}
}

Horikag@kun: ~/Desktop/Intro Jenkins/Jenkinsfile (main)
$ git add "Jenkinsfile"

Horikag@kun: ~/Desktop/Intro Jenkins/Jenkinsfile (main)
$ git commit -m "update Jenkinsfile 5"
[main 9135b3c] update Jenkinsfile 5
1 file changed, 2 insertions(+), 2 deletions(-)

Horikag@kun: ~/Desktop/Intro Jenkins/Jenkinsfile (main)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (1/1), done.
Writing objects: 100% (1/1), 319 bytes | 319.00 KiB/s, done.
Total 1 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Yuuu008/Jenkinsfile.git
4b877ed..9135b3c main -> main

Horikag@kun: ~/Desktop/Intro Jenkins/Jenkinsfile (main)
$
  
```

Build Repository files using Jenkins

(8081)

The screenshot shows the Jenkins web interface for a pipeline named 'cp301_302'. The left sidebar contains navigation links: Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, Rename, and Pipeline Syntax. The 'Build History' section is expanded, showing a list of builds with a search filter and a table of build details. The main content area displays the 'Stage View' for the selected build, showing a table of stages and their durations. The 'Permalinks' section is also visible.

Pipeline cp301_302

Stage View

	Declarative: Checkout SCM	Clone Repo	Provision AWS Instance	Deploy	Notification
Average stage times (Average full run time = 12s)	1s	270ms	236ms	183ms	193ms
Feb 28 18:31	1s	270ms	236ms	183ms	193ms

Permalinks

REST API Jenkins 2.392

(9080)

Dashboard > cp301_302 >

- Status
- Changes
- Build Now
- Configure
- Delete Pipeline
- Full Stage View
- Rename
- Pipeline Syntax

Build History trend

Filter builds...

Feb 26, 2023, 8:54 AM

Atom feed for all

Atom feed for failures

Pipeline cp301_302

Stage View

Average stage times:
(Average full run time: ~22s)

	Declarative: Checkout SCM	Clone Repo	Provision AWS Instance	Deploy	Notification
Feb 26 16:54	5s	2s	158ms	155ms	190ms

Permalinks