

THIVISHA S
22CSR225

TASK 1

Microsoft Windows [Version 10.0.26100.3194]
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C:\Windows\System32>wsl --list --online

Windows Subsystem for Linux must be updated to the latest version to proceed. You can update by running 'wsl.exe --update'.
For more information please visit <https://aka.ms/wslinstall>

Press any key to install Windows Subsystem for Linux.

Press CTRL-C or close this window to cancel.

This prompt will time out in 60 seconds.

Downloading: Windows Subsystem for Linux 2.4.12

Installing: Windows Subsystem for Linux 2.4.12

Windows Subsystem for Linux 2.4.12 has been installed.

Installing Windows optional component: VirtualMachinePlatform

Deployment Image Servicing and Management tool

Version: 10.0.26100.1150

Image Version: 10.0.26100.3194

Enabling feature(s)

[=====100.0%=====]

The operation completed successfully.

The requested operation is successful. Changes will not be effective until the system is rebooted.

The following is a list of valid distributions that can be installed.

Install using 'wsl.exe --install <Distro>'.

NAME	FRIENDLY NAME
AlmaLinux-8	AlmaLinux OS 8
AlmaLinux-9	AlmaLinux OS 9
AlmaLinux-Kitten-10	AlmaLinux OS Kitten 10
Debian	Debian GNU/Linux
SUSE-Linux-Enterprise-15-SP5	SUSE Linux Enterprise 15 SP5
SUSE-Linux-Enterprise-15-SP6	SUSE Linux Enterprise 15 SP6
Ubuntu	Ubuntu
Ubuntu-24.04	Ubuntu 24.04 LTS
kali-linux	Kali Linux Rolling
openSUSE-Tumbleweed	openSUSE Tumbleweed
openSUSE-Leap-15.6	openSUSE Leap 15.6
Ubuntu-18.04	Ubuntu 18.04 LTS
Ubuntu-20.04	Ubuntu 20.04 LTS
Ubuntu-22.04	Ubuntu 22.04 LTS
OracleLinux_7_9	Oracle Linux 7.9
OracleLinux_8_7	Oracle Linux 8.7
OracleLinux_9_1	Oracle Linux 9.1

C:\Windows\System32>wsl --install -d Ubuntu

The requested operation is successful. Changes will not be effective until the system is rebooted.

C:\Windows\System32>

Linux

www.jenkins.io/doc/book/installing/linux/#debianubuntu

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cd

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varsh_12@VARSH: ~

Saving to: '/usr/share/keyrings/jenkins-keyring.asc'

/usr/share/keyrings/jenkins-k 100%[=====>] 3.10K --.-KB/s in 0.001s

2025-03-18 06:27:30 (2.29 MB/s) - '/usr/share/keyrings/jenkins-keyring.asc' saved [3175/3175]

Ign:1 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:2 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Hit:3 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble InRelease
Get:5 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Hit:6 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:7 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Get:8 https://pkg.jenkins.io/debian-stable binary/ Packages [28.7 kB]
Fetched 31.6 kB in 2s (20.3 kB/s)
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
net-tools
The following NEW packages will be installed:
jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 56 not upgraded.
Need to get 95.0 MB of archives.
After this operation, 97.6 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 net-tools amd64 2.10-0.1ubuntu4 [204 kB]
Get:1 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.492.2 [94.8 MB]
40% [1 jenkins 35.1 MB/94.8 MB 37%] 2659 kB/s 22s

echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \
https://pkg.jenkins.io/debian binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install jenkins

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Linux

www.jenkins.io/doc/book/installing/linux/#debianubuntu

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varsh_12@VARSH: ~

> Use

Use

Adding debian:certSIGN_ROOT_CA.pem

Adding debian:certSIGN_Root_CA_G2.pem

Adding debian:e-Szigno_Root_CA_2017.pem

• Adding debian:ePKI_Root_Certification_Authority.pem

• Adding debian:emSign_ECC_Root_CA_-_C3.pem

Adding debian:emSign_ECC_Root_CA_-_G3.pem

Adding debian:emSign_Root_CA_-_C1.pem

Adding debian:emSign_Root_CA_-_G1.pem

Adding debian:vTrus_ECC_Root_CA.pem

Adding debian:vTrus_Root_CA.pem

done.

Setting up openjdk-17-jre:amd64 (17.0.14+7-1~24.04) ...

openjdk version "17.0.14" 2025-01-21

OpenJDK Runtime Environment (build 17.0.14+7-Ubuntu-124.04)

OpenJDK 64-Bit Server VM (build 17.0.14+7-Ubuntu-124.04, mixed mode, sharing)

Command 'openjdk' not found, but can be installed with:

sudo snap install openjdk

-bash: syntax error near unexpected token `('

-bash: syntax error near unexpected token `('

• varsh_12@VARSH:~\$ java --version

openjdk 17.0.14 2025-01-21

OpenJDK Runtime Environment (build 17.0.14+7-Ubuntu-124.04)

• OpenJDK 64-Bit Server VM (build 17.0.14+7-Ubuntu-124.04, mixed mode, sharing)

• varsh_12@VARSH:~\$ sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \

https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key

• echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \

https://pkg.jenkins.io/debian-stable binary/ | sudo tee \

/etc/apt/sources.list.d/jenkins.list > /dev/null

• sudo apt-get update

• sudo apt-get install jenkins

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echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \

https://pkg.jenkins.io/debian binary/ | sudo tee \

/etc/apt/sources.list.d/jenkins.list > /dev/null

sudo apt-get update

sudo apt-get install jenkins

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

```
/var/lib/jenkins/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password

Continue

```
varsh_12@VARSH: ~  
varsh_12@VARSH:~$ systemctl start jenkins  
Failed to start jenkins.service: Interactive authentication required.  
See system logs and 'systemctl status jenkins.service' for details.  
varsh_12@VARSH:~$ systemctl status jenkins  
● jenkins.service - Jenkins Continuous Integration Server  
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)  
   Active: active (running) since Tue 2025-03-18 06:28:30 UTC; 6min ago  
 Main PID: 2025 (java)  
    Tasks: 46 (limit: 2241)  
   Memory: 507.7M ()  
    CGroup: /system.slice/jenkins.service  
            └─2025 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkin  
  
Mar 18 06:28:20 VARSH jenkins[2025]: 1d45e18bfd64458abfb62b81bfb36ea0  
Mar 18 06:28:20 VARSH jenkins[2025]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword  
Mar 18 06:28:20 VARSH jenkins[2025]: *****  
Mar 18 06:28:20 VARSH jenkins[2025]: *****  
Mar 18 06:28:20 VARSH jenkins[2025]: *****  
Mar 18 06:28:30 VARSH jenkins[2025]: 2025-03-18 06:28:30.195+0000 [id=36] INFO jenkins.InitReactorRunner$>  
Mar 18 06:28:30 VARSH jenkins[2025]: 2025-03-18 06:28:30.216+0000 [id=24] INFO hudson.lifecycle.Lifecycle$>  
Mar 18 06:28:30 VARSH systemd[1]: Started jenkins.service - Jenkins Continuous Integration Server.  
Mar 18 06:28:32 VARSH jenkins[2025]: 2025-03-18 06:28:32.271+0000 [id=53] INFO h.m.DownloadService$Downlo>  
Mar 18 06:28:32 VARSH jenkins[2025]: 2025-03-18 06:28:32.272+0000 [id=53] INFO hudson.util.Retrier#start:>  
varsh_12@VARSH:~$ varsh123  
varsh123: command not found  
varsh_12@VARSH:~$ cat /var/lib/jenkins/secrets/initialAdminPassword  
cat: /var/lib/jenkins/secrets/initialAdminPassword: Permission denied  
varsh_12@VARSH:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword  
1d45e18bfd64458abfb62b81bfb36ea0  
varsh_12@VARSH:~$ |
```

Getting Started

Getting Started


✓ Folders	✓ OWASP Markup Formatter	✓ Build Timeout	✓ Credentials Binding	<pre>Pipeline: Declarative Extension ** Pipeline: Declarative Extension Points API ** Branch API ** Pipeline: Multibranch ** Pipeline: Stage Tags Metadata ** Pipeline: Input Step ** Pipeline: Declarative Pipeline ** Java JSON Web Token (JJWT) ** GitHub API ** Mina SSHD API :: Common ** Mina SSHD API :: Core ** Gson API ** Git client Git ** GitHub GitHub Branch Source Pipeline: GitHub Groovy Libraries ** Pipeline Graph Analysis ** Metrics Pipeline Graph View Git ** EDDSA API ** Trilead API ** - required dependency</pre>
✓ Timestamper	✓ Workspace Cleanup	✓ Ant	✓ Gradle	
✓ Pipeline	✓ GitHub Branch Source	✓ Pipeline: GitHub Groovy Libraries	✓ Pipeline Graph View	
✓ Git	⌚ SSH Build Agents	⌚ Matrix Authorization Strategy	○ PAM Authentication	
⌚ LDAP	⌚ Email Extension	✓ Mailer	⌚ Dark Theme	

Linux

Dashboard [Jenkins]

← → ↺ http://localhost:8080

Getting Started Firewall Authentico...

 **Jenkins**

🔍 🛡️ 1 👤 VARSHINE ▾ ↗ log out

Dashboard >

+ New Item

📁 Build History

⚙️ Manage Jenkins

📅 My Views

Build Queue ▾

No builds in the queue.

Build Executor Status ▾

0/2

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job +

Set up a distributed build

Set up an agent 🖥️

Configure a cloud ☁️

Learn more about distributed builds ?

REST API Jenkins 2.492.2

Sign in to Jenkins

Username

Manage Passwords

Password

☐

Keep me signed in

Sign in

Getting Started

Create First Admin User

Username

varsh_12

Password

••••••••

Confirm password

••••••••

Full name

VARSHINE

E-mail address

varshine12@gmail.com

Linux

Thivii #3 Console [Jenkins]

Server Not Found

←

→

↺

🛡️

📄

http://localhost:8080/job/Thivii/3/console

☆

📧

👤

📄


☰

🔥

Getting Started

🌐

Firewall Authenticatio...

 Jenkins

🔍

🛡️ 1

👤 VARSHINE ▾

🚪 log out

Dashboard > Thivii > #3 > Console Output

📄 Status

</> Changes

🖨️ Console Output

✍️ Edit Build Information

🕒 Timings

← Previous Build

✅ Console Output

Download

Copy

View as plain text

Started by user [VARSHINE](#)

Running as SYSTEM

Building in workspace /var/lib/jenkins/workspace/Thivii

[Thivii] \$ /bin/sh -xe /tmp/jenkins17774941142616346474.sh

+ sudo apt update -y

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

Hit:1 <http://security.ubuntu.com/ubuntu> noble-security InRelease

Ign:2 <https://pkg.jenkins.io/debian-stable> binary/ InRelease

Hit:3 <https://pkg.jenkins.io/debian-stable> binary/ Release

Hit:4 <http://archive.ubuntu.com/ubuntu> noble InRelease

Hit:5 <http://archive.ubuntu.com/ubuntu> noble-updates InRelease

Hit:6 <http://archive.ubuntu.com/ubuntu> noble-backports InRelease

Reading package lists...

Building dependency tree...

Reading state information...

56 packages can be upgraded. Run 'apt list --upgradable' to see them.

+ sudo apt install nginx -y

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

Reading package lists...

Building dependency tree...

```
(Reading database ... 90%
(Reading database ... 95%
(Reading database ... 100%
(Reading database ... 42119 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.1_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.1) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.1_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.1) ...
Setting up nginx (1.24.0-2ubuntu7.1) ...
Setting up nginx-common (1.24.0-2ubuntu7.1) ...
debconf: unable to initialize frontend: Dialog
debconf: (Dialog frontend will not work on a dumb terminal, an emacs shell buffer, or without a controlling terminal.)
debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (This frontend requires a controlling tty.)
debconf: falling back to frontend: Teletype
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.

Processing triggers for man-db (2.12.0-4build2) ...
+ sudo systemctl start nginx
+ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nginx
Finished: SUCCESS
```

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.