

VARSHINE T  
22CSR230

TASK 1

Microsoft Windows [Version 10.0.26100.3194]  
(c) Microsoft Corporation. All rights reserved.

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

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

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🔥 Getting Started

🌐 Firewall Authentificatio...

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varsh\_12@VARSH: ~

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> 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

• Troubleshooting Jenkins

• Glossary

Tutorials

time

debian

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: MODEL API ** 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> |
| ✓ Timestampers | ✓ 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

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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 ▾

📝 Add description

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

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Getting Started Firewall Authentico...

 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](http://nginx.org).  
Commercial support is available at [nginx.com](http://nginx.com).

*Thank you for using nginx.*