

DEVOPS TASK 1

1. Installing Ubuntu

```
surya@Surya: ~  
PS C:\Users\SURYA> wsl --install -d Ubuntu-22.04  
wsl: Using legacy distribution registration. Consider using a tar based distribution instead.  
Installing: Ubuntu 22.04 LTS  
Ubuntu 22.04 LTS has been installed.  
Launching Ubuntu 22.04 LTS...  
Installing, this may take a few minutes...  
Please create a default UNIX user account. The username does not need to match your Windows username.  
For more information visit: https://aka.ms/wslusers  
Enter new UNIX username: surya  
New password:  
Retype new password:  
passwd: password updated successfully  
Installation successful!  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/pro  
  
System information as of Mon Mar 17 19:29:34 IST 2025  
  
System load:  0.57          Processes:            56  
Usage of /:   0.1% of 1006.85GB  Users logged in:     0  
Memory usage: 5%           IPv4 address for eth0: 172.26.35.228  
Swap usage:   0%  
  
This message is shown once a day. To disable it please create the  
/home/surya/.hushlogin file.  
surya@Surya:~$ |
```

2. Verify Installation

```
Windows PowerShell  
PS C:\Users\SURYA> wsl -l -v  
NAME                STATE      VERSION  
* Ubuntu-22.04      Stopped    2  
PS C:\Users\SURYA> |
```

3. Update package lists

```

surya@Surya: /mnt/c/Users/S X + v
surya@Surya:/mnt/c/Users/SURYA$ sudo apt update -y
Hit:1 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [2145 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [333 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [13.5 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [2986 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [527 kB]
Get:12 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [584 B]
Get:13 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [966 kB]
Get:14 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [207 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:16 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [21.6 kB]
Get:17 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [46.6 kB]
Get:18 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [10.7 kB]
Get:19 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [516 B]
Get:20 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:21 http://archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:22 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:23 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2388 kB]
Get:24 http://archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [396 kB]
Get:25 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [18.4 kB]
Get:26 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [3108 kB]
Get:27 http://archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [548 kB]
Get:28 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [652 B]
Get:29 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1193 kB]
Get:30 http://archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [293 kB]
Get:31 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [28.6 kB]
Get:32 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [53.3 kB]
Get:33 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [13.6 kB]
Get:34 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [732 B]
Get:35 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.7 kB]
Get:36 http://archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.1 kB]
Get:37 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:38 http://archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:39 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [30.0 kB]
Get:40 http://archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.6 kB]
Get:41 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [672 B]
Get:42 http://archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 15.4 MB in 7s (2101 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
56 packages can be upgraded. Run 'apt list --upgradable' to see them.
surya@Surya:/mnt/c/Users/SURYA$ |

```

4. Installing Java (17)

```

surya@Surya: /mnt/c/Users/S  X + v
Running hooks in /etc/ca-certificates/update.d...
done.
done.
Setting up openjdk-17-jre-headless:amd64 (17.0.14+7-1~22.04.1) ...
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/java to provide /usr/bin/java (java) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jpackage to provide /usr/bin/jpackage (jpackage) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/keytool to provide /usr/bin/keytool (keytool) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/rmiregistry to provide /usr/bin/rmiregistry (rmiregistry) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/lib/jexec to provide /usr/bin/jexec (jexec) in auto mode
Processing triggers for fontconfig (2.13.1-4.2ubuntu5) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Setting up openjdk-17-jre:amd64 (17.0.14+7-1~22.04.1) ...
Setting up openjdk-17-jdk-headless:amd64 (17.0.14+7-1~22.04.1) ...
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jar to provide /usr/bin/jar (jar) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jarsigner to provide /usr/bin/jarsigner (jarsigner) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/javac to provide /usr/bin/javac (javac) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/javadoc to provide /usr/bin/javadoc (javadoc) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/javap to provide /usr/bin/javap (javap) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jcmd to provide /usr/bin/jcmd (jcmd) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jdb to provide /usr/bin/jdb (jdb) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jdeprscan to provide /usr/bin/jdeprscan (jdeprscan) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jdeps to provide /usr/bin/jdeps (jdeps) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jfr to provide /usr/bin/jfr (jfr) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jimage to provide /usr/bin/jimage (jimage) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jinfo to provide /usr/bin/jinfo (jinfo) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jlink to provide /usr/bin/jlink (jlink) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jmap to provide /usr/bin/jmap (jmap) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jmod to provide /usr/bin/jmod (jmod) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jps to provide /usr/bin/jps (jps) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jrunscript to provide /usr/bin/jrunscript (jrunscript) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jshell to provide /usr/bin/jshell (jshell) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jstack to provide /usr/bin/jstack (jstack) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jstat to provide /usr/bin/jstat (jstat) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jstatd to provide /usr/bin/jstatd (jstatd) in auto mode
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/serialver to provide /usr/bin/serialver (serialver) in auto mode
surya@Surya: /mnt/c/Users/SURYA$
Setting up openjdk-17-jdk:amd64 (17.0.14+7-1~22.04.1) ...
update-alternatives: using /usr/lib/jvm/java-17-openjdk-amd64/bin/jconsole to provide /usr/bin/jconsole (jconsole) in auto mode
surya@Surya: /mnt/c/Users/SURYA$ java -version
openjdk version "17.0.14" 2025-01-21
OpenJDK Runtime Environment (build 17.0.14+7-Ubuntu-122.04.1)
OpenJDK 64-Bit Server VM (build 17.0.14+7-Ubuntu-122.04.1, mixed mode, sharing)
surya@Surya: /mnt/c/Users/SURYA$

```

5. Add the Jenkins repository key

```

surya@Surya: /mnt/c/Users/S
surya@Surya: /mnt/c/Users/SURYA$ wget -q -O- https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee /usr/share/keyrings
/jenkins
keyring.asc > /dev/null
-----BEGIN PGP PUBLIC KEY BLOCK-----

mQINBGQhZisBEAC7yUhIqVCcyCXJWeZZf/BA6/+KguDQpycck0xUomj5ogT1+lwJ
Mnr6XsPFdTt5DgzjHKg6SM8PTIpLpZ0CpQIG9eB8MnvtTp6qFSfIdZnEZccTot1e
cArnM2H6ym/40W+8QHx9Zgj1miqolVZ1RusHT3cvPdkF4GFTZnChiF0epd+6iKi
Em8gfzECILtL+McYcwjPXLx38p1mwpI0tgQ7GGD1VzjS/GycuD+shM7LPQ9PmCnC
8zkZIBsbGStbAYqnAR+bczm98KCYErfdQJKi6+r/fG6cWAAirXsi0LzqCLCB0Z
ssLklRac2ib3cm/RHBM+MK2wLZ5q8xgh9e/iBoB0pJXXARvfu67uQjFLPj/o4FwM
ZWxGZLj2b3cL5q+thjGW0LiEh15gciGU17vT15YGCePVMedVBYPk/Z+TgkJILUmD
4bU+K89qYcZp/AP3tsozFwazQRultkjHVCZrJQtCaVu3/wjtkVd1010j/Gi4ajn
2WU2KkGwKj0ArUCohJPzodLHj8DAT2V5SqrEq6jF60NnALK1MNMPTKA0DmPz6LJ
3oF4VHCibGq1p+I6R9292Lv3Avs/uMbWtR7nae4XWT9L49hY3p8gc5rP0s2wzPgV
v8K6vaQ5lqjJDaNVPSZCo8hQqHsokzi5BHvHxBpjaJ0mNKCShWfP+RwARAQAB
tDJKZW5ra5w5IFByb2p1Y3QgPGp1bmtpbmNjaS1ib2FyZEBnb29nbGVncm91cHMU
Y29tPokCvMwQAQgAQRyhbG9mudLuh8KCKaYcLujHvFvWXXKBQJkIc4rAhsDBQkF
o5qABQsJCAcCAiICBhUKCQgLAQgWAgMBAh4HAheAAAJEFUjHvFvWXXK4+Kp/0cR
nNyrjB4qWG/rcwJ8zo0YKZB030RPuL1INnyufDedidB0UC0JwT+CnEZULx+HeU0i
xHVBMD70LRP3ym+40Naw3s4nJwvBpOYIqQhJ0RqrWkdIrMgNSAWRruFqXgSBvvfZ
+XQYcNRuu8/00U6Bz2eeCL2SNZpShL0iPjP9Bcu7763jaGvnS/WUVAqQyNwxGRl
afffrVCV/Wjy47W+ifCPgku4SKZgG+QPMuthI842+LLSL2BxhiEVJ4auK5rjFHsv
RrUEQRJEG29vEoitZAQL/CDWmLkhrqYSpqTVsMc0ByRzZqQGF0A9JNF1FqrANAQ
m9NkZ0ZLJ0nZfJh+ZzbjYVUS522piJtVqd0U0n0T6awMtSO/CO4EmuELj8LkVi6
jbp0FqYVccNQtlAzBguRDSUWjA13jgkdbap0ooQZm2YQPNALD30LWdvtj/jx+EI4
DTrSoSsoHea5xiAFQNB3ab2fk5kN5ufVWIV5F9AQHU+kWE9jgS+zL8apzBwMinn8
ZW0KeIcW63MH5hvbmsfBjdyroTty2mwy096mB2vvqWw6nt9mQy1YcmBeyP7oshI
qMeXIunP1MekAFgy+dRlLdA3S0xNuJhVGd5eCOFWmipb9XD+JrSgnchJcgewH21
ycptdmq80Z26Z0aAI0Y0YENk8WU0z5Dz0u0S81EJuQINBGQhZisBEADtvyA0n+23
gKkVzSY9bEvQxJWQUY/jXek7LjhFLLw4xugGARMRtMc6zab0JefyrVkuWqso
spCwoj+H8HGFHxHNDHbn21fyHB6jP0h80rs2ZHH2skswcAcWcLLWQWrtUQFuje
1rXShp8IhYz308MI265VYf/Z9Bk7VMNTgRLmOMTn+KLN8qiQZ0S2bPj/wFKliwAh
/xPu586a7xVN4xdy6RJNfrSCG84kMNYaHTDFOEKchWp0Ge5D6EqF8dufvrcKoSxc
T2sC6wDqG/+Jfk/ /xrHbLxeCXi0AX/Dm+McveV0dBSVJjx67F0HuYwBRj5coHU
4YfRUTHREEKdYcpUAHQGPJBLyx0QNs2URHYSWNU5yYL+z3UIpsS93HosUPEZrTD
XE1D2eV1gF0YzCwXWTAU0JoUD8D22p//GAALXypuWsgVzgKwvPefkVJ94Euvz6T
sKzLjMPsx0dPLBs8AJgrqmYIwBRXoxNEzv/PT/9s5T5nL5tLwc9PonzwzHqStU4Y
f8jQhIv1yq2wAE20B0Q7B6i62QWQSWAWEAc6LPRdSalgS8ooj/MIQFGwsd4VuNSN
JD9p7bHHlHceeXMR2F0JeG8G91RqLtkxu7cUMkqheXxAYTa/OuG5xauHylzt4xVp
fnHd5fNjxccc02ADF46X6/nze6hCLUBqMAQARAQABiQI8B8B8BCAAmFIEEY2Z+50u6
HwoIpphyW6MdV+9ZdcoFamQhZisCGwWFCQWjmoAACGkQW6MdV+9ZdcoRGA/+JmJW
09ZmALBM846GgI0B00YtXmU3Puhh0q8sJEXvvcLcfSALVpHfnwUJE7q5QaUrD3wT
VKT4pe/zBRN+zD84gXxGANJY813EhpngBEJmptIjNkKvWcLr/nG4MI8yezZmeEgP
142LviJmNyb0+3s1CU7Q03g3b/wSHNFPuA9zVJu24xVAM/Af65N1StvnSQAjXa9
rgLwdiZ7XbCD6rpF1ms8i6RYsFLB+dGLgEOiALX+LZ6843WpMWLDUBd2v+0HtXvm
zLYbg8SYthV8xMJWpjz6e9yoKuyjvWAwAiDcJ00SpCqLkHsUzWRS44z3hQsgyWP
iFKGqP5eHDAcScqUHF5VkgGdt/a9M7vthhEoB/2IKSf82CQe9IdmNtEJHAPGwamgm
VPpyMLiDtD2gyqD+FmdurDY/yHMP0QV6G/VRTV4gfQ80qU/U2JXWAQdw6ok1+k5V
t0ur8buQo+49diyr8WPHA4CwpSwriwICLDZdq38JiCdnfICFFxAQYdBMBL6S4wqA
Sv+OqCDBvu7m5yV/hrfcVztrKwUwr21kUmvx04xpvvpG/cUANQ0og3Q7Ce5xkaX7
99Ewd0xUXma/H++IGX77jxU7jW5n2FPeVEn+zcNF8of/XAi1uaP1WL5T/iEL6EsI
Net8bjk0nHXyR3PSAPnqQMMg/vNa+mJIj0NByw=
=sdsH
-----END PGP PUBLIC KEY BLOCK-----
keyring.asc: command not found
surya@Surya: /mnt/c/Users/SURYA$ 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
surya@Surya: /mnt/c/Users/SURYA$ |

```

6. Installing Jenkins

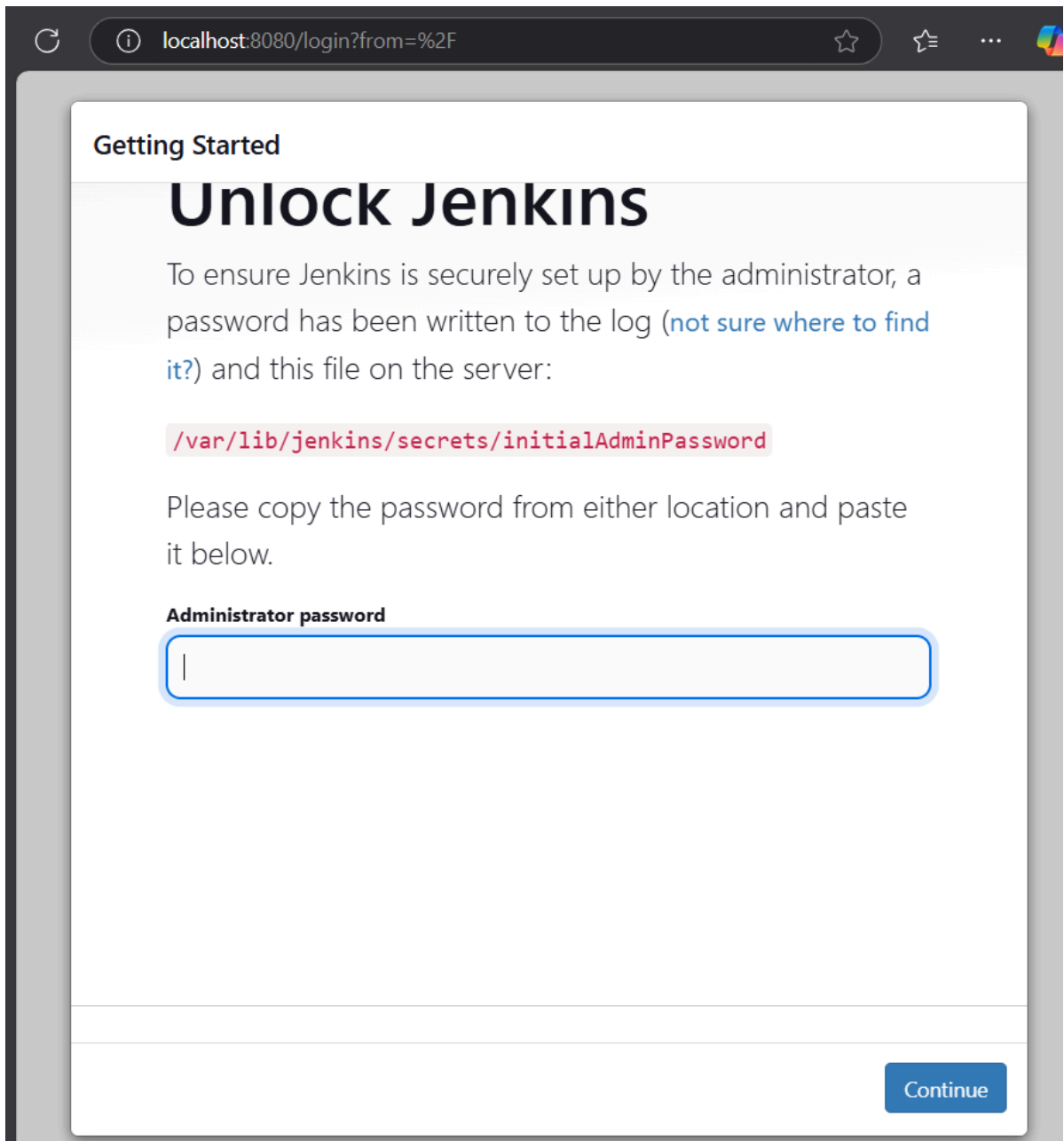
```
surya@Surya: /mnt/c/Users/S X + v
surya@Surya:/mnt/c/Users/SURYA$ sudo apt install -y jenkins
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  net-tools
The following NEW packages will be installed:
  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.
Get:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 net-tools amd64 1.60+git20181103.0eebece-1ubuntu5 [204 kB]
Get:1 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.492.2 [94.8 MB]
Fetched 94.9 MB in 7s (14.2 MB/s)
Selecting previously unselected package net-tools.
(Reading database ... 44460 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20181103.0eebece-1ubuntu5_amd64.deb ...
Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../jenkins_2.492.2_all.deb ...
Unpacking jenkins (2.492.2) ...
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Setting up jenkins (2.492.2) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.10.2-1) ...
surya@Surya:/mnt/c/Users/SURYA$
```

7. Start, enable and Check Jenkin status

```
surya@Surya: /mnt/c/Users/S X + v
surya@Surya:/mnt/c/Users/SURYA$ sudo systemctl start jenkins
surya@Surya:/mnt/c/Users/SURYA$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
surya@Surya:/mnt/c/Users/SURYA$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2025-03-17 19:53:01 IST; 2min 16s ago
     Main PID: 4580 (java)
       Tasks: 53 (limit: 9428)
      Memory: 987.2M
        CGroup: /system.slice/jenkins.service
                └─4580 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --htt

Mar 17 19:52:55 Surya jenkins[4580]: 316b8fd8d958454e928ed608086d611e
Mar 17 19:52:55 Surya jenkins[4580]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Mar 17 19:52:55 Surya jenkins[4580]: *****
Mar 17 19:52:55 Surya jenkins[4580]: *****
Mar 17 19:52:55 Surya jenkins[4580]: *****
Mar 17 19:53:01 Surya jenkins[4580]: 2025-03-17 14:23:01.873+0000 [id=37] INFO jenkins.InitReactorRunner$1#onAttaine
Mar 17 19:53:01 Surya jenkins[4580]: 2025-03-17 14:23:01.910+0000 [id=25] INFO hudson.lifecycle.Lifecycle#onReady: J
Mar 17 19:53:01 Surya systemd[1]: Started Jenkins Continuous Integration Server.
Mar 17 19:53:04 Surya jenkins[4580]: 2025-03-17 14:23:04.228+0000 [id=62] INFO h.m.DownloadService$Downloadable#load
Mar 17 19:53:04 Surya jenkins[4580]: 2025-03-17 14:23:04.229+0000 [id=62] INFO hudson.util.Retrier#start: Performed
lines 1-19/19 (END)
```

8. Testing using localhost 8080



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.

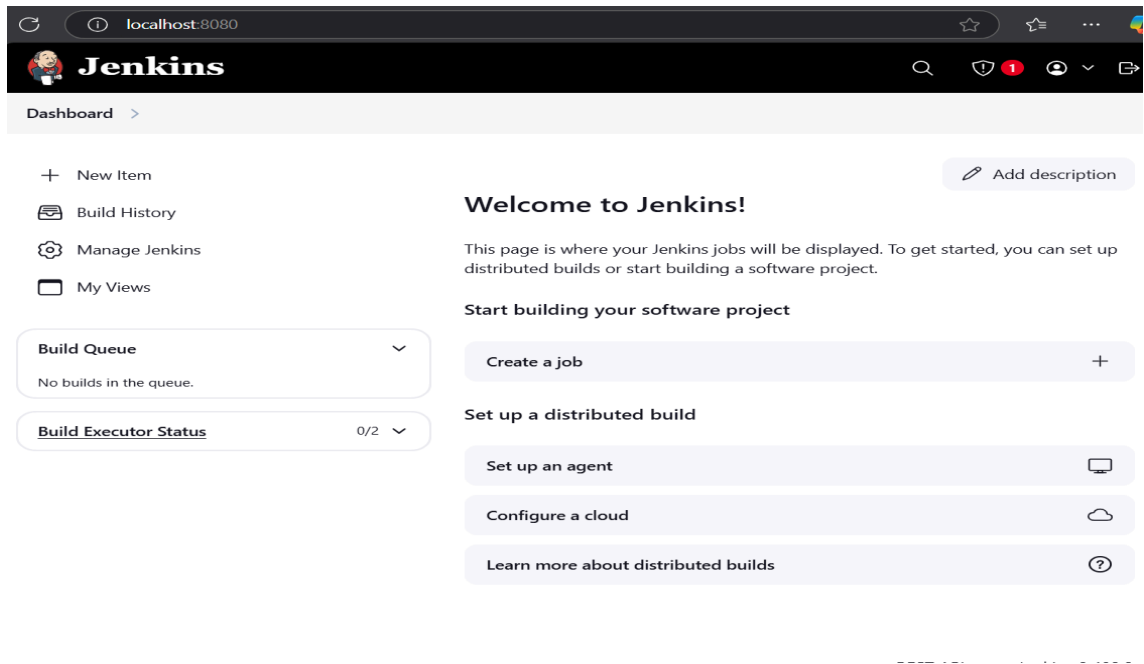
Administrator password

Continue

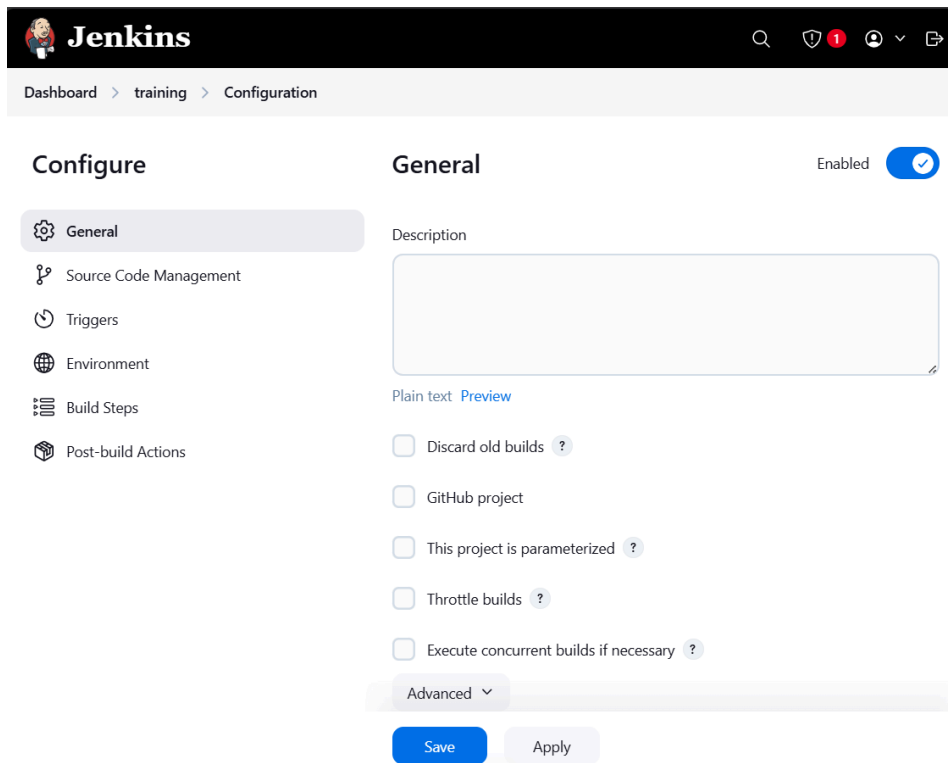
9. Getting Password

```
surya@Surya:/mnt/c/Users/SURYA$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
816b8fd8d958454e928ed608086d611e
surya@Surya:/mnt/c/Users/SURYA$
```

10. Jenkins dashBoard



11. Free style project created (training)



12. Execute shell

The screenshot shows the Jenkins web interface at `localhost:8080/job/training/configure`. The breadcrumb navigation is `Dashboard > training > Configuration`. The left sidebar contains the following menu items: `General`, `Source Code Management`, `Triggers`, `Environment` (which is highlighted), `Build Steps`, and `Post-build Actions`.

The main content area is titled `Configure` and contains several configuration options:

- ☐ Add timestamps to the Console Output
- ☐ Inspect build log for published build scans
- ☐ Terminate a build if it's stuck
- ☐ With Ant ?

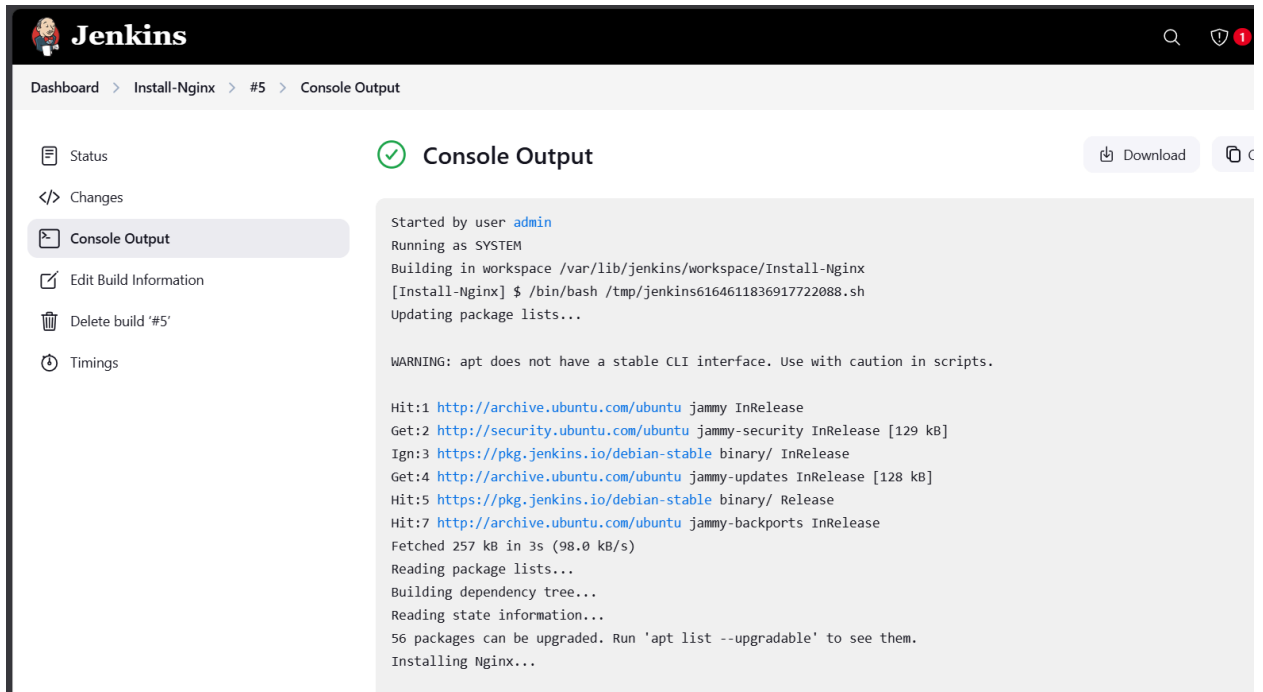
Below these options is the `Build Steps` section, which includes the text: "Automate your build process with ordered tasks like code compilation, testing, and deployment."

The `Execute shell` build step is expanded, showing a text area with the following command:

```
#!/bin/  
echo "Updating package lists..."  
sudo apt update -y
```

At the bottom of the configuration page, there is an `Advanced` dropdown menu and two buttons: `Save` and `Apply`.

13. Build successful



The screenshot shows the Jenkins web interface. The breadcrumb navigation is Dashboard > Install-Nginx > #5 > Console Output. On the left sidebar, the 'Console Output' tab is selected. The main area displays the build log for job #5. The log starts with 'Started by user admin' and 'Running as SYSTEM'. It shows the build directory as '/var/lib/jenkins/workspace/Install-Nginx' and the shell command as '/bin/bash /tmp/jenkins6164611836917722088.sh'. The log then shows 'Updating package lists...' followed by a warning: 'WARNING: apt does not have a stable CLI interface. Use with caution in scripts.' The log continues with the output of 'apt update', showing hits for 'jammy InRelease', 'jammy-security InRelease', 'jammy-updates InRelease', and 'jammy-backports InRelease'. It then shows 'Reading package lists...', 'Building dependency tree...', and 'Reading state information...'. Finally, it states '56 packages can be upgraded. Run 'apt list --upgradable' to see them.' and 'Installing Nginx...'.

14. Verifying the installation

```
surya@Surya:/mnt/c/Users/SURYA$ systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2025-03-17 20:56:44 IST; 1min 18s ago
     Docs: man:nginx(8)
    Main PID: 6566 (nginx)
      Tasks: 9 (limit: 9428)
    Memory: 10.7M
    CGroup: /system.slice/nginx.service
            └─6566 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
              └─6569 "nginx: worker process"
                └─6570 "nginx: worker process"
                  └─6571 "nginx: worker process"
                    └─6572 "nginx: worker process"
                      └─6573 "nginx: worker process"
                        └─6574 "nginx: worker process"
                          └─6575 "nginx: worker process"
                            └─6576 "nginx: worker process"

Mar 17 20:56:44 Surya systemd[1]: Starting A high performance web server and a reverse proxy server...
Mar 17 20:56:44 Surya systemd[1]: Started A high performance web server and a reverse proxy server.
surya@Surya:/mnt/c/Users/SURYA$
```

15. Nginix page

hostname -I // command for getting host ip

http://ip/80

