Ansible
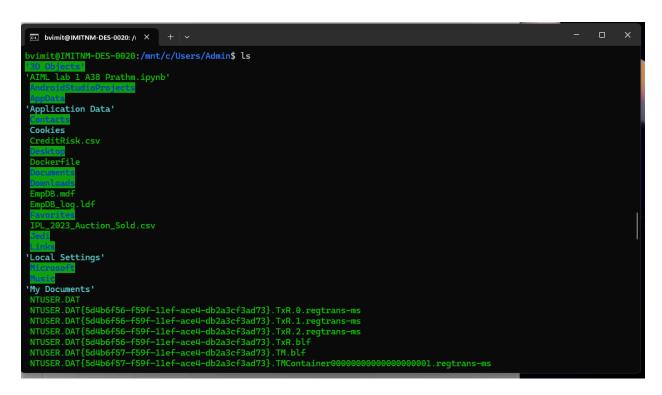
Installation steps:


```
Microsoft Windows [Version 10.0.26100.3775]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>ansible --version
'ansible' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Admin>wsl -l -v
  NAME              STATE           VERSION
* docker-desktop    Stopped         2
  Ubuntu            Stopped         2
  Ubuntu-22.04      Stopped         2

C:\Users\Admin>wsl -d Ubuntu-22.04
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 Sat Apr 19 09:44:08 IST 2025

  System load:  0.0                Processes:             73
  Usage of /:   0.2% of 1006.85GB  Users logged in:       0
  Memory usage: 12%                IPv4 address for eth0: 172.19.160.226
  Swap usage:   0%


This message is shown once a day. To disable it please create the
/home/bvimit/.hushlogin file.
```



```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ sudo apt update && sudo apt upgrade -y
[sudo] password for bvimit:
Sorry, try again.
[sudo] password for bvimit:
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Hit:2 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [2222 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 [342 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [3145 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2499 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [558 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [972 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [209 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [409 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [3336 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [592 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1200 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [296 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [30.0 kB]
Get:18 http://archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Fetched 16.2 MB in 25s (642 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
17 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
Preparing to unpack .../12-binutils_2.38-4ubuntu2.8_amd64.deb ...
Unpacking binutils (2.38-4ubuntu2.8) over (2.38-4ubuntu2.7) ...
Preparing to unpack .../13-binutils-common_2.38-4ubuntu2.8_amd64.deb ...
Unpacking binutils-common:amd64 (2.38-4ubuntu2.8) over (2.38-4ubuntu2.7) ...
Setting up libexpat1:amd64 (2.4.7-1ubuntu0.6) ...
Setting up pci.ids (0.0~2022.01.22-1ubuntu0.1) ...
Setting up binutils-common:amd64 (2.38-4ubuntu2.8) ...
Setting up libctf-nobfd0:amd64 (2.38-4ubuntu2.8) ...
Setting up perl-modules-5.34 (5.34.0-3ubuntu1.4) ...
Setting up xxd (2:8.2.3995-1ubuntu2.24) ...
Setting up vim-common (2:8.2.3995-1ubuntu2.24) ...
Setting up libbinutils:amd64 (2.38-4ubuntu2.8) ...
Setting up vim-runtime (2:8.2.3995-1ubuntu2.24) ...
Setting up libctf0:amd64 (2.38-4ubuntu2.8) ...
Setting up libperl5.34:amd64 (5.34.0-3ubuntu1.4) ...
Setting up vim (2:8.2.3995-1ubuntu2.24) ...
Setting up vim-tiny (2:8.2.3995-1ubuntu2.24) ...
Setting up perl (5.34.0-3ubuntu1.4) ...
Setting up binutils-x86-64-linux-gnu (2.38-4ubuntu2.8) ...
Setting up binutils (2.38-4ubuntu2.8) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for libc-bin (2.35-0ubuntu3.9) ...
Processing triggers for man-db (2.10.2-1) ...
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ sudo apt install ansible -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ansible is already the newest version (2.10.7+merged+base+2.10.8+dfsg-1).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ls
'3D Objects'
'AIML lab 1 A38 Prathm.ipynb'
AndroidStudioProjects
AppData
'Application Data'
Contacts
Cookies
CreditRisk.csv
Desktop
Dockerfile
Documents
Downloads
EmpDB.mdf
EmpDB_log.ldf
Favorites
IPL_2023_Auction_Sold.csv
Jedi
Links
'Local Settings'
Microsoft
Music
'My Documents'
NTUSER.DAT
NTUSER.DAT{5d4b6f56-f59f-11ef-ace4-db2a3cf3ad73}.TxR.0.regtrans-ms
NTUSER.DAT{5d4b6f56-f59f-11ef-ace4-db2a3cf3ad73}.TxR.1.regtrans-ms
NTUSER.DAT{5d4b6f56-f59f-11ef-ace4-db2a3cf3ad73}.TxR.2.regtrans-ms
NTUSER.DAT{5d4b6f56-f59f-11ef-ace4-db2a3cf3ad73}.TxR.blf
NTUSER.DAT{5d4b6f57-f59f-11ef-ace4-db2a3cf3ad73}.TM.blf
NTUSER.DAT{5d4b6f57-f59f-11ef-ace4-db2a3cf3ad73}.TMContainer00000000000000000001.regtrans-ms
```

```
ntuser.ini
'numpy multidimesiopn_A20.ipynb'
package-lock.json
package.json
pandas_earth_quake_A20.ipynb
patil1_demo
patil2_demo
patil_demo
pemhttpd.exe
pemhttpd.exe-20241003134424
pemhttpd.exe-20241003141252
pemhttpd.exe-20241003141328
'plotting graphs.ipynb'
postgis_3_4_pg16.exe
postgresql_12.exe
postgresql_12.exe-20241003135038
postgresql_13.exe
postgresql_14.exe
postgresql_14.exe-20241003135538
postgresql_15.exe
postgresql_15.exe-20241003140044
postgresql_16.exe
postgresql_17.exe
project_demo
seaborn-data
sem2-project
source
untitled.txt
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ mkdir -p /etc/ansible
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

```
[local]
localhost ansible_connection = local
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
"/etc/ansible/hosts" 2L, 45B                                    1,7              All
```

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ sudo vi /etc/ansible/hosts
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m ping
localhost | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ sudo vi /etc/ansible/hosts
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

Find user name

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ sudo vi /etc/ansible/hosts
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m shell -a "whoami"
localhost | CHANGED | rc=0 >>
bvimit
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

Listing files

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m shell -a "whoami"
localhost | CHANGED | rc=0 >>
bvimit
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m shell -a "ls -la /home/$USER"
localhost | CHANGED | rc=0 >>
total 48
drwxr-x--- 6 bvimit bvimit 4096 Apr 19 09:44 .
drwxr-xr-x 3 root   root   4096 Apr  7 13:29 ..
drwxr-xr-x 3 bvimit bvimit 4096 Apr  7 13:34 .ansible
-rw------- 1 bvimit bvimit 1446 Apr  7 14:50 .bash_history
-rw-r--r-- 1 bvimit bvimit  220 Apr  7 13:29 .bash_logout
-rw-r--r-- 1 bvimit bvimit 3771 Apr  7 13:29 .bashrc
drwx------ 2 bvimit bvimit 4096 Apr  7 13:30 .cache
drwxr-xr-x 2 bvimit bvimit 4096 Apr 19 09:44 .landscape
-rw-r--r-- 1 bvimit bvimit    0 Apr 19 09:44 .motd_shown
-rw-r--r-- 1 bvimit bvimit  807 Apr  7 13:29 .profile
-rw-r--r-- 1 bvimit bvimit    0 Apr  7 13:31 .sudo_as_admin_successful
-rw------- 1 bvimit bvimit 2315 Apr  7 14:43 .viminfo
drwxr-xr-x 2 bvimit bvimit 4096 Apr  7 13:50 Aniket
-rw-r--r-- 1 bvimit bvimit  133 Apr  7 14:43 firstplaybook.yml
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

Create file n write in it

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m shell -a "echo 'Hello' > /tmp/hello.txt"
localhost | CHANGED | rc=0 >>

bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

Check file created or not

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m shell -a "ls -l /tmp"
localhost | CHANGED | rc=0 >>
total 24
drwx------ 2 bvimit bvimit 4096 Apr 19 10:29 ansible_ansible.legacy.command_payload_mr07slpn
-rw-r--r-- 1 bvimit bvimit    6 Apr 19 10:27 hello.txt
drwx------ 2 root   root   4096 Apr 19 09:44 snap-private-tmp
drwx------ 3 root   root   4096 Apr 19 09:44 systemd-private-023f08cbd2b1437aae7c630ea8423862-systemd-logind.service-jwA
jh5
drwx------ 3 root   root   4096 Apr 19 09:44 systemd-private-023f08cbd2b1437aae7c630ea8423862-systemd-resolved.service-7
TSuus
drwx------ 3 root   root   4096 Apr 19 09:44 systemd-private-023f08cbd2b1437aae7c630ea8423862-systemd-timesyncd.service-
IW5aiF
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

List only the file

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m shell -a "ls -l /tmp | grep hello"
localhost | CHANGED | rc=0 >>
-rw-r--r-- 1 bvimit bvimit    6 Apr 19 10:27 hello.txt
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

Display system load time

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m command -a "uptime"
localhost | CHANGED | rc=0 >>
 10:34:06 up 54 min,  1 user,  load average: 0.05, 0.04, 0.00
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

Check os version

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m command -a "cat /etc/os-release"
localhost | CHANGED | rc=0 >>
PRETTY_NAME="Ubuntu 22.04.5 LTS"
NAME="Ubuntu"
VERSION_ID="22.04"
VERSION="22.04.5 LTS (Jammy Jellyfish)"
VERSION_CODENAME=jammy
ID=ubuntu
ID_LIKE=debian
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
UBUNTU_CODENAME=jammy
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m apt -a "name=nginx state=present" -b --ask-become-pass
BECOME password:
localhost | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "cache_update_time": 1745036120,
    "cache_updated": false,
    "changed": false
}
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

.

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m shell -a "dpkg -l | grep nginx"
localhost | CHANGED | rc=0 >>
ii  libnginx-mod-http-geoip2       1.18.0-6ubuntu14.6               amd64       GeoIP2 HTTP module for Nginx
ii  libnginx-mod-http-image-filter 1.18.0-6ubuntu14.6               amd64       HTTP image filter module for Ngi
nx
ii  libnginx-mod-http-xslt-filter  1.18.0-6ubuntu14.6               amd64       XSLT Transformation module for N
ginx
ii  libnginx-mod-mail              1.18.0-6ubuntu14.6               amd64       Mail module for Nginx
ii  libnginx-mod-stream            1.18.0-6ubuntu14.6               amd64       Stream module for Nginx
ii  libnginx-mod-stream-geoip2     1.18.0-6ubuntu14.6               amd64       GeoIP2 Stream module for Nginx
ii  nginx                          1.18.0-6ubuntu14.6               amd64       small, powerful, scalable web/pr
oxy server
ii  nginx-common                   1.18.0-6ubuntu14.6               all         small, powerful, scalable web/pr
oxy server - common files
ii  nginx-core                     1.18.0-6ubuntu14.6               amd64       nginx web/proxy server (standard
 version)
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m apt -a "name=nginx state=absent" -b
localhost | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": true,
    "stderr": "",
    "stderr_lines": [],
    "stdout": "Reading package lists...\nBuilding dependency tree...\nReading state information...\nThe following packag
es were automatically installed and are no longer required:\n libgd3 libnginx-mod-http-geoip2 libnginx-mod-http-image-f
ilter\n libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream\n libnginx-mod-stream-geoip2 libxpm4 libxs
lt1.1 nginx-common nginx-core\nUse 'sudo apt autoremove' to remove them.\nThe following packages will be REMOVED:\n ngi
nx\n0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.\nAfter this operation, 50.2 kB disk space will be fre
ed.\n(Reading database ... \r(Reading database ... 5%\r(Reading database ... 10%\r(Reading database ... 15%\r(Reading da
tabase ... 20%\r(Reading database ... 25%\r(Reading database ... 30%\r(Reading database ... 35%\r(Reading database ... 4
0%\r(Reading database ... 45%\r(Reading database ... 50%\r(Reading database ... 55%\r(Reading database ... 60%\r(Reading
 database ... 65%\r(Reading database ... 70%\r(Reading database ... 75%\r(Reading database ... 80%\r(Reading database ..
. 85%\r(Reading database ... 90%\r(Reading database ... 95%\r(Reading database ... 100%\r(Reading database ... 81156 fil
es and directories currently installed.)\r\nRemoving nginx (1.18.0-6ubuntu14.6) ...\r\n",
    "stdout_lines": [
        "Reading package lists...",
        "Building dependency tree...",
        "Reading state information...",
        "The following packages were automatically installed and are no longer required:",
        " libgd3 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter",
        " libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream",
        " libnginx-mod-stream-geoip2 libxpm4 libxslt1.1 nginx-common nginx-core",
        "Use 'sudo apt autoremove' to remove them.",
        "The following packages will be REMOVED:",
        " nginx",
        "0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.",
        "After this operation, 50.2 kB disk space will be freed.",
        "(Reading database ... ",
        "(Reading database ... 5%",
        "(Reading database ... 10%",
        "(Reading database ... 15%",
        "(Reading database ... 20%",
        "(Reading database ... 25%",
        "(Reading database ... 30%",
        "(Reading database ... 35%",
        "(Reading database ... 40%",

```
        "  libgd3 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter",
        "  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream",
        "  libnginx-mod-stream-geoip2 libxpm4 libxslt1.1 nginx-common nginx-core",
        "Use 'sudo apt autoremove' to remove them.",
        "The following packages will be REMOVED:",
        "  nginx",
        "0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.",
        "After this operation, 50.2 kB disk space will be freed.",
        "(Reading database ... ",
        "(Reading database ... 5%",
        "(Reading database ... 10%",
        "(Reading database ... 15%",
        "(Reading database ... 20%",
        "(Reading database ... 25%",
        "(Reading database ... 30%",
        "(Reading database ... 35%",
        "(Reading database ... 40%",
        "(Reading database ... 45%",
        "(Reading database ... 50%",
        "(Reading database ... 55%",
        "(Reading database ... 60%",
        "(Reading database ... 65%",
        "(Reading database ... 70%",
        "(Reading database ... 75%",
        "(Reading database ... 80%",
        "(Reading database ... 85%",
        "(Reading database ... 90%",
        "(Reading database ... 95%",
        "(Reading database ... 100%",
        "(Reading database ... 81156 files and directories currently installed.)",
        "Removing nginx (1.18.0-6ubuntu14.6) ..."
    ]
}
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

```
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$ ansible local -m user -a "name=testuser state=present" -b
localhost | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": true,
    "comment": "",
    "create_home": true,
    "group": 1001,
    "home": "/home/testuser",
    "name": "testuser",
    "shell": "/bin/sh",
    "state": "present",
    "system": false,
    "uid": 1001
}
bvimit@IMITNM-DES-0020:/mnt/c/Users/Admin$
```

Playbook Java

Welcome to Ubuntu 24.04.2 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 Thu Apr 24 10:59:56 UTC 2025

  System load: 0.0   Processes: 69
  Usage of /:   0.2% of 1006.85GB Users logged in: 0
  Memory usage: 11%   IPv4 address for eth0: 172.19.160.226
  Swap usage: 0%

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

This message is shown once a day. To disable it please create the
/home/bvimit/.hushlogin file.
bvimit@IMITNM-DES-0020:~$ mkdir mansi36
bvimit@IMITNM-DES-0020:~$ ls
ansible-web-demo cd mansi36 pri
bvimit@IMITNM-DES-0020:~$ cd mansi36
bvimit@IMITNM-DES-0020:~/mansi36$ sudo apt install openjdk-21-jdk-headless
[sudo] password for bvimit:
Sorry, try again.
[sudo] password for bvimit:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  alsa-topology-conf alsa-ucm-conf ca-certificates-java java-common libasound2-data libasound2t64 libnspr4 libnss3 libpcsclite1 openjdk-21-jre-headless
Suggested packages:
  default-jre alsa-utils libasound2-plugins pcscd openjdk-21-demo openjdk-21-source libnss-mdns fonts-dejavu-extra fonts-ipafont-gothic
  fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei fonts-indic
The following NEW packages will be installed:
  alsa-topology-conf alsa-ucm-conf ca-certificates-java java-common libasound2-data libasound2t64 libnspr4 libnss3 libpcsclite1 openjdk-21-jdk-headless
  openjdk-21-jre-headless
0 upgraded, 11 newly installed, 0 to remove and 0 not upgraded.
Need to get 131 MB of archives.
After this operation, 306 MB of additional disk space will be used.

bvimit@IMITNM-DES-0020:~$ mkdir mansi36
bvimit@IMITNM-DES-0020:~$ ls
ansible-web-demo cd mansi36 pri
bvimit@IMITNM-DES-0020:~$ cd mansi36
bvimit@IMITNM-DES-0020:~/mansi36$ sudo apt install openjdk-21-jdk-headless
[sudo] password for bvimit:
Sorry, try again.
[sudo] password for bvimit:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  alsa-topology-conf alsa-ucm-conf ca-certificates-java java-common libasound2-data libasound2t64 libnspr4 libnss3 libpcsclite1 openjdk-21-jre-headless
Suggested packages:
  default-jre alsa-utils libasound2-plugins pcscd openjdk-21-demo openjdk-21-source libnss-mdns fonts-dejavu-extra fonts-ipafont-gothic
  fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei fonts-indic
The following NEW packages will be installed:
  alsa-topology-conf alsa-ucm-conf ca-certificates-java java-common libasound2-data libasound2t64 libnspr4 libnss3 libpcsclite1 openjdk-21-jdk-headless
  openjdk-21-jre-headless
0 upgraded, 11 newly installed, 0 to remove and 0 not upgraded.
Need to get 131 MB of archives.
After this operation, 306 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble/main amd64 alsa-topology-conf all 1.2.5.1-2 [15.5 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 libasound2-data all 1.2.11-1build2 [21.0 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 libasound2t64 amd64 1.2.11-1build2 [399 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 alsa-ucm-conf all 1.2.10-1ubuntu5.4 [64.8 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble/main amd64 ca-certificates-java all 20240118 [11.6 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/main amd64 java-common all 0.75+exp1 [6798 B]
Get:7 http://archive.ubuntu.com/ubuntu noble/main amd64 libnspr4 amd64 2:4.35-1.1build1 [117 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble/main amd64 libnss3 amd64 2:3.98-1build1 [1445 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble/main amd64 libpcsclite1 amd64 2.0.3-1build1 [21.4 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openjdk-21-jre-headless amd64 21.0.6+7-1~24.04.1 [46.4 MB]
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openjdk-21-jdk-headless amd64 21.0.6+7-1~24.04.1 [82.6 MB]
Fetched 131 MB in 1min 47s (1223 kB/s)
Selecting previously unselected package alsa-topology-conf.
(Reading database ... 64718 files and directories currently installed.)
Preparing to unpack .../00-alsa-topology-conf_1.2.5.1-2_all.deb ...
Unpacking alsa-topology-conf (1.2.5.1-2) ...
Selecting previously unselected package libasound2-data.
Preparing to unpack .../01-libasound2-data_1.2.11-1build2_all.deb ...
Unpacking libasound2-data (1.2.11-1build2) ...

```
Adding debian:vTrus_ECC_Root_CA.pem
Adding debian:vTrus_Root_CA.pem
done.
Setting up openjdk-21-jdk-headless:amd64 (21.0.6+7-1~24.04.1) ...
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jar to provide /usr/bin/jar (jar) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jarsigner to provide /usr/bin/jarsigner (jarsigner) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/javac to provide /usr/bin/javac (javac) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/javadoc to provide /usr/bin/javadoc (javadoc) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/javap to provide /usr/bin/javap (javap) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jcmd to provide /usr/bin/jcmd (jcmd) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jdb to provide /usr/bin/jdb (jdb) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jdeprscan to provide /usr/bin/jdeprscan (jdeprscan) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jdeps to provide /usr/bin/jdeps (jdeps) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jfr to provide /usr/bin/jfr (jfr) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jimage to provide /usr/bin/jimage (jimage) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jinfo to provide /usr/bin/jinfo (jinfo) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jlink to provide /usr/bin/jlink (jlink) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jmap to provide /usr/bin/jmap (jmap) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jmod to provide /usr/bin/jmod (jmod) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jps to provide /usr/bin/jps (jps) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jrunscript to provide /usr/bin/jrunscript (jrunscript) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jshell to provide /usr/bin/jshell (jshell) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jstack to provide /usr/bin/jstack (jstack) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jstat to provide /usr/bin/jstat (jstat) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jstatd to provide /usr/bin/jstatd (jstatd) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jwebserver to provide /usr/bin/jwebserver (jwebserver) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/serialver to provide /usr/bin/serialver (serialver) in auto mode
update-alternatives: using /usr/lib/jvm/java-21-openjdk-amd64/bin/jhsdb to provide /usr/bin/jhsdb (jhsdb) in auto mode
```

```
bvimit@IMITNM-DES-0020:~/mansi36$ java --version
openjdk 21.0.6 2025-01-21
OpenJDK Runtime Environment (build 21.0.6+7-Ubuntu-124.04.1)
OpenJDK 64-Bit Server VM (build 21.0.6+7-Ubuntu-124.04.1, mixed mode, sharing)
bvimit@IMITNM-DES-0020:~/mansi36$ sudo apt install openjdk-21-jre-headless
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openjdk-21-jre-headless is already the newest version (21.0.6+7-1~24.04.1).
openjdk-21-jre-headless set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
bvimit@IMITNM-DES-0020:~/mansi36$ javac --version
javac 21.0.6
bvimit@IMITNM-DES-0020:~/mansi36$
```

```
bvimit@IMITNM-DES-0020:~/mansi36$ java --version
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openjdk-21-jre-headless set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
bvimit@IMITNM-DES-0020:~/mansi36$ javac --version
javac 21.0.6
bvimit@IMITNM-DES-0020:~/mansi36$ vi HelloWorld.java
bvimit@IMITNM-DES-0020:~/mansi36$ cat HelloWorld.java
class HelloWorld{
        public static void main (String[] args)
        {
                System.out.println("Hello World!!");
        }
}

bvimit@IMITNM-DES-0020:~/mansi36$
```

```
class HelloWorld{
	public static void main (String[] args)
	{
		System.out.println("Hello World!!");
	}
}
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:wq
```

Javaplaybook.yml

```
---
- name: Run Java Program Using Ansible
  hosts: localhost
  gather_facts: no
  tasks:
    - name: Compile Java Program
      command: javac HelloWorld.java
      args:
        chdir: /home/bvimit/mansi36
      register: compile_output

    - name: Run Java Program
      command: java -cp . HelloWorld
      args:
        chdir: /home/bvimit/mansi36
      register: run_output

    - name: Display Java Program Output
      debug:
        msg: "{{ run_output.stdout}}"
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-- INSERT --                                                    20,38         All
```

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  hosts: localhost

gather_facts: no
tasks:
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bvimit@IMITNM-DES-0020:~/mansi36$ vi javaplaybook.yml
bvimit@IMITNM-DES-0020:~/mansi36$ vi javaplaybook.yml
bvimit@IMITNM-DES-0020:~/mansi36$ ansible-playbook javaplaybook.yml

PLAY [Run Java Program Using Ansible] ***************************************************************

TASK [Compile Java Program] ************************************************************************
changed: [localhost]

TASK [Run Java Program] ****************************************************************************
changed: [localhost]

TASK [Display Java Program Output] *****************************************************************
ok: [localhost] => {
    "msg": "Hello World!!"
}

PLAY RECAP *****************************************************************************************
localhost                  : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

bvimit@IMITNM-DES-0020:~/mansi36$
```

```
bvimit@IMITNM-DES-0020:~/mansi36$ vi HelloWorld.java
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PLAY [Run Java Program Using Ansible] *********************************************************************************************

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bvimit@IMITNM-DES-0020:~/mansi36$
```