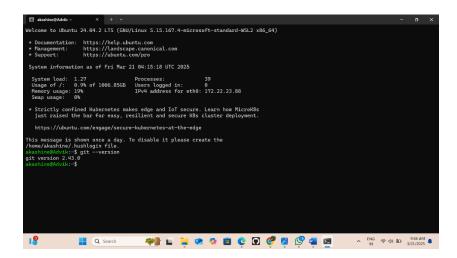
# **DEVOPS**

## DAY 3 Task

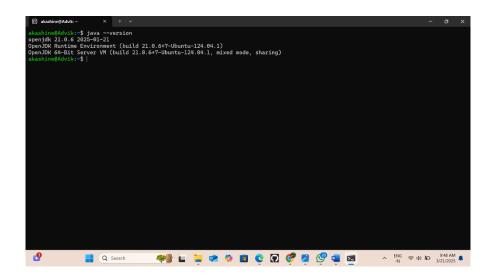
## Git installation

- 1. sudo apt update
- 2. sudo apt install git
- 3. git --version
- 4. git config --global user.name "Your Name"
- 5. git config --global user.email "your.email@example.com"



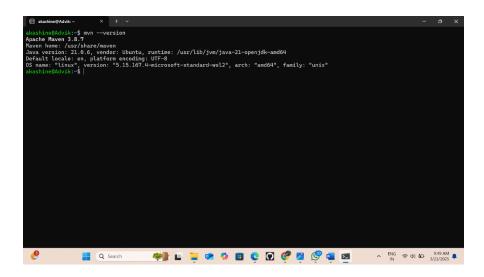
## **JDK** installation

- 1. sudo apt update
- 2. sudo apt upgrade -y
- 3. sudo apt install default-jdk -y
- 4. java -version



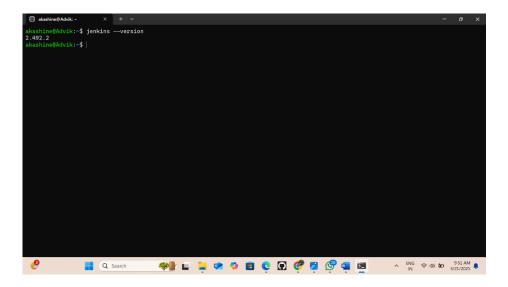
## Maven installation

- 1. sudo apt install maven -y
- 2. mvn -version



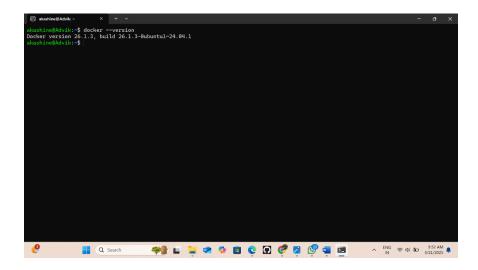
## Jenkins installation

- 1. sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \ https://pkg.jenkins.io/debian-stable/jenkins.io-2023.keyecho "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \ https://pkg.jenkins.io/debian-table binary/ | sudo tee \ /etc/apt/sources.list.d/jenkins.list > /dev/nullsudo apt-get updatesudo apt-get install jenkins
- 2. sudo service Jenkins restart
- 3. sudo service Jenkins status
- 4. sudo cat /var/lib/jenkins/secrets/initialAdminPassword



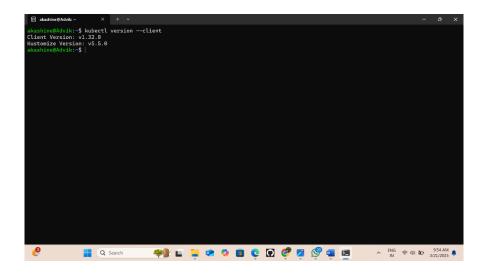
## **Docker installation**

- 1. sudo apt install docker-compose -y
- 2. sudo service docker restart
- 3. sudo service docker status
- 4. sudo usermod -aG docker \$USER
- 5. docker images
- 6. docker ps
- 7. sudo chmod 666 /var/run/docker.sock



## **Kubernetes installation**

- 1. Go to https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/
- 2. curl -LO https://dl.k8s.io/release/v1.32.0/bin/linux/amd64/kubectl
- 3. sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
- 4. chmod +x kubectl mkdir -p ~/.local/bin mv ./kubectl ~/.local/bin/kubectl
- 5. kubectl version --client



## Minikube installation

- $1.\ Go\ to\ https://minikube.sigs.k8s.io/docs/start/?arch=\%2Fwindows\%2Fx86-64\%2Fstable\%2F.exe+download$
- 2. curl -LO https://github.com/kubernetes/minikube/releases/latest/download/minikube-linux-amd64
- 3. sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64
- 4. minikube start
- 5. minikube status
- 6. kubectl get pod
- 7. kubeclt get deploy
- 8. kubectl get replica or rs or replicaaset
- 9. kubectl get pod -o wide

## **Docker compose**

```
1. sudo apt install docker-compose -y
2. sudo nano docker-compose.yml
 version: '3'
services:
 web:
  image: nginx:latest
  ports:
   - "80:80"
 db:
  image: mysql:latest
  environment:
   MYSQL_ROOT_PASSWORD: secret
}
3. docker-compose up -d
4. docker-compose images
5. docker-compose ps
6. sudo docker exec -it Akashine db 1 bash
7. mysql -u root -p
```



