<u>Ubuntu 18.04 – Instructions for Installation:</u>

Open-JDK 1.8:

- Update the package list first
 - o >sudo apt update
 - o >sudo apt install openjdk-8-jdk
 - o >java -version

Set JAVA_HOME environment variable:

- Update JAVA_HOME variable in your .bashrc profile file to point to JDK 1.8
 - First check the location of the installed JDK1.8 (by default it gets installed in the location /usr/lib/jvm/java-8-openjdk-amd64/)
 - o >vi ~/.bashrc
 - o Go to the end of the file and add the following line
 - Export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64/
 - Save and exit
 - o Refresh the session to get JAVA_HOME env variable and check if it got loaded correctly
 - o >source ~/.bashrc
 - o >echo \$JAVA_HOME

Git Client:

- o sudo apt update
- o >sudo apt install git
- o >git --version

Maven 3.6 or any other latest version:

- o sudo apt update
- o sudo apt install maven
- o mvn –version

Jenkins 2.X:

- Add Jenkins repository key to the system, update and then install Jenkins
 - >wget -q -O https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add -
 - >sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
 - o >sudo apt update
 - >sudo apt install Jenkins
 - Start Jenkins Service
 - >sudo systemctl start jenkins
 - o At any time, to check on Jenkins service status
 - >sudo systemctl status Jenkins
 - o To stop Jenkins service
 - >sudo systemctl stop jenkins

Docker CE:

- Update apt package manager list
- >sudo apt-get update
- >sudo apt-get install apt-transport-https ca-certificates curl gnupg-agent \ software-properties-common
- Add Docker GPG Keys
- o >curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add –
- >sudo apt-key fingerprint 0EBFCD88
- pub rsa4096 2017-02-22 [SCEA]
- 9DC8 5822 9FC7 DD38 854A E2D8 8D81 803C 0EBF CD88
- uid [unknown] Docker Release (CE deb) <docker@docker.com>
- sub rsa4096 2017-02-22 [S]
 - >sudo add-apt-repository \
 - "deb [arch=amd64] https://download.docker.com/linux/ubuntu \ \$(lsb_release -cs) stable"
 - Update apt package manager index
 - >sudo apt-get update
 - o > sudo apt-get install docker-ce docker-ce-cli containerd.io
 - > sudo systemctl start docker
 - Add present user to docker user group so that they have required permissions to launch docker containers
 - >sudo usermod -aG docker \$USER
 - Either logout and open a new terminal so that the user group permissions take effect or run the following command to activate changes to the group
 - o > newgrp docker
 - Verify if you can launch docker without having to sudo
 - o >docker --version
 - o >docker run -it hello-world