**docker**

what is docker :Docker is a container management service. The keywords of Docker are develop, ship and run anywhere. The whole idea of Docker is for developers to easily develop applications, ship them into containers which can then be deployed anywhere

**Features of Docker**

Docker has the ability to reduce the size of development by providing a smaller footprint of the operating system via containers.

With containers, it becomes easier for teams across different units, such as development, QA and Operations to work seamlessly across applications.

You can deploy Docker containers anywhere, on any physical and virtual machines and even on the cloud.

Since Docker containers are pretty lightweight, they are very easily scalable

**Installation**

 Linux kernel version is 4.2.0-27 which is higher than version 3.8, so we are good to go.

Uname –a (to check the kernel version)

Apt-get update (update the machine)

apt-get install apt-transport-https ca-certificates (install the necessary certificates)

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add –

(this is to add gpg key to download the packages in encrypted format)

sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb\_release -cs) stable"

(to add the repositories)

**installing docker engine**

apt-get update (update the machine)

apt-get install docker-ce docker-ce-cli containerd.io

apt-cache policy docker-ce (output like this, although the version number for Docker may be different)

usermod –aG docker ${USER} (to give the permission to group)