

# Vidyalankar Institute of Technology WWW.Wit.edu.in Department of Information Technology Experiment No.3

Semester	T.E. Semester V – Department of Information Technology
Subject	DevOps Lab
Subject Professor In-charge	Prof. Rohit Barve
Assisting Teachers	Prof. Rohit Barve
Laboratory	Ms-Teams

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Roll Number	19101B0011
Grade and Subject Teacher's Signature	

Experiment Number	3		
Experiment Title	Docker		
Resources / Apparatus Required	Hardware: Computer system	Software: Ubuntu virtual Machine	
Description	Docker is an open platform for developing, shipping, and running applications.  Docker provides the ability to package and run an application in a loosely isolated environment called a container. The isolation and security allow you to run many containers simultaneously on a given host. Containers are lightweight and contain everything needed to run the application, so you do not need to rely on what is currently installed on the host. You can easily share containers while you work, and be sure that everyone you share with gets the same container that works in the same way.		
Output	Install docker sudo apt-get install docker.io  Activities Terminal   poojagpooja-VirtualBox:-\$ sudo apt-get install docker.io  Reading package lists Done Building dependency tree Reading state information Done docker.io is already the newest version (20.10.7-0ubuntu1~20.04.1). The following packages were automatically installed and are no longer required: chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi libgstreamer-plugins-bad1.0-0 libva-wayland2 Use 'sudo apt autoremove' to remove them. 0 upgraded, 0 newly installed, 0 to remove and 313 not upgraded.  Pull an image by its digest poojagpooja-VirtualBox:-\$ sudo docker pull ubuntu Using default tag: latest latest: Pulling from library/ubuntu 16ec32c2132b: Pull complete Digest: sha256:82becede498899ec668628e7cb0ad87b6e1c371cb8a1e597d83a47fac21d6af3 Status: Downloaded newer image for ubuntu:latest docker.io/library/ubuntu:latest		



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The docker run command creates a container from a given image and starts the container using a given command.

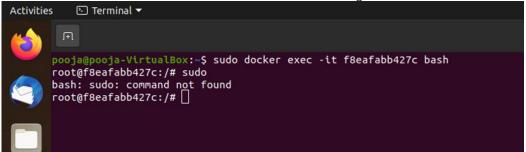
- -it: iterative mode
- -d: To keep the container running when you exit the terminal session, start it in a detached mode.

To give a name to the docker --name

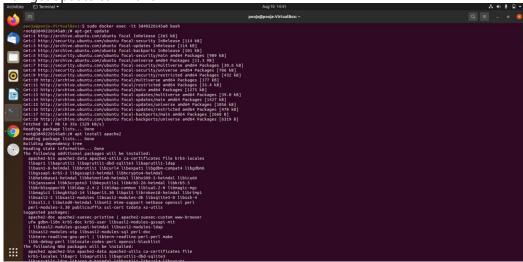
List the dockers: sudo docker ps

```
pooja@pooja-VirtualBox:~$ sudo docker run -it -d ubuntu
3d49226145a0ee9f5b62efcc1ca0d6902937ab95d203493530f4881c227d1876
pooja@pooja-VirtualBox:~$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3d49226145a0 ubuntu "bash" 9 seconds ago Up 7 seconds zealous_galileo
pooja@pooja-VirtualBox:~$ sudo docker run -it -d --name poojanaik ubuntu
f8eafabb427cd0257c7c3ded96d4cf1a48fb269520c060bd13b134acfd503671
pooja@pooja-VirtualBox:~$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
f8eafabb427c ubuntu "bash" 8 seconds ago Up 7 seconds poojanaik
3d49226145a0 ubuntu "bash" 38 seconds ago Up 37 seconds zealous_galileo
pooja@pooja-VirtualBox:~$
```

The docker exec command runs a new command in a running container.



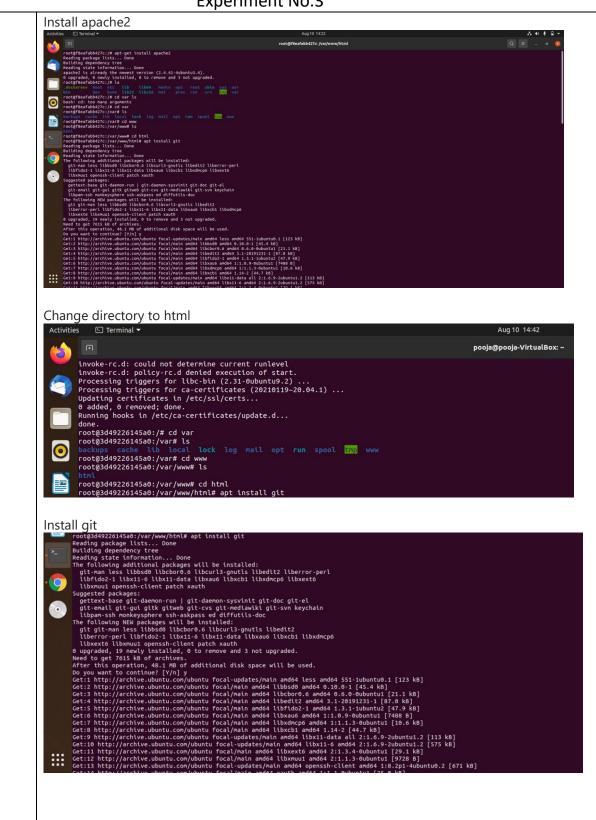
Run get update command





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