

Semester	T.E. Semester V – INFT
Subject	DevOps Lab
Laboratory Teacher:	Prof. Rohit Barve
Laboratory	CC02

Student Name	Ankita santosh Pilvilkar	
Roll Number	22101B2003	
Grade and Subject Teacher's Signature		

Experiment Number	03	
Problem Statement	Docker: installation and docker container	
Resources / Apparatus Required	Hardware: Desktop/Laptop	

Output:

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Activities Terminal Sep 2 20:16
ankita@Ankita: ~
ankita@Ankita:~$ sudo apt-get install docker.io
[sudo] password for ankita:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  bridge-utils containerd git git-man liberror-perl pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools btrfs-progs cgroupfs-mount | cgroup-lite debootstrap
  docker-doc rinse zfs-fuse | zfsutils git-daemon-run | git-daemon-sysvinit
  git-doc git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  bridge-utils containerd docker.io git git-man liberror-perl pigz runc
  ubuntu-fan
0 upgraded, 9 newly installed, 0 to remove and 30 not upgraded.
Need to get 73.5 MB of archives.
After this operation, 287 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6-1
[63.6 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 bridge-utils amd64 1.
7-1ubuntu3 [34.4 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 runc amd64 1.
1.7-0ubuntu1~22.04.1 [4,249 kB]
Processing triggers for man-db (2.10.2-1) ...
ankita@Ankita:~$ docker --version
Docker version 24.0.5, build 24.0.5-0ubuntu1~22.04.1

ankita@Ankita:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
445a6a12be2b: Pull complete
Digest: sha256:aabed3296a3d45ceded1dc866a24476c4d7e093aa806263c27ddaadbce3c1054
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ankita@Ankita:~$

ankita@Ankita:~$ sudo docker run -it -d ubuntu
13f920f55e3680dcb8492448d5592843af32e2704d4a64a508a16a95d0d3f18b
ankita@Ankita:~$ sudo docker run -it -d --name pilvilkarankita ubuntu
d51e0ec47445c41b01b36c34f90006a0d151dae622c8877ee4f6c08d6564698a
ankita@Ankita:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS
PORTS         NAMES
d51e0ec47445   ubuntu   "/bin/bash"             27 seconds ago Up 27 seconds
pilvilkarankita
13f920f55e36   ubuntu   "/bin/bash"             47 seconds ago Up 47 seconds
eager_robinson
c01e7736b8ba   ubuntu   "/bin/bash"             About a minute ago Up About a minute
gracious_spence
8e9dccc3f335   ubuntu   "/bin/bash"             About a minute ago Up About a minute
ankitaPilvilkar
4b22661c68eb   ubuntu   "/bin/bash"             2 minutes ago Up 2 minutes
jovial_cannon
b06abafa2071   ubuntu   "/bin/bash"             2 minutes ago Up 2 minutes
priceless_buck
0d2d2c962f01   ubuntu   "/bin/bash"             3 minutes ago Up 3 minutes
silly_haibt
ankita@Ankita:~$

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root@d51e0ec47445: /
ankita@Ankita:~$ sudo docker exec -it d51e0ec47445 bash
root@d51e0ec47445:/# apt-get install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package apache2
root@d51e0ec47445:/# apt-get update
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:3 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [44.0 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [990 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1792 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [995 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [164 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [266 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [17.5 MB]
Get:12 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [915 kB]
```

```
root@d51e0ec47445:/# apt-get install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 ca-certificates file libapr1
  libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libbrotli1 libcurl4
  libexpat1 libgdbm-compat4 libgdbm6 libicu70 libjansson4 libldap-2.5-0
  libldap-common liblua5.3-0 libmagic-mgc libmagic1 libnghttp2-14 libperl5.34
  libpsl5 librtmp1 libsasl2-2 libsasl2-modules libsasl2-modules-db
  libsqlite3-0 libssh-4 libxml2 mailcap media-types mime-support netbase
  openssl perl perl-modules-5.34 publicsuffix ssl-cert xz-utils
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw
  bzip2-doc gdbm-l10n libsasl2-modules-gssapi-mit
  | libsasl2-modules-gssapi-heimdal libsasl2-modules-ldap libsasl2-modules-otp
  libsasl2-modules-sql perl-doc libterm-readline-gnu-perl
  | libterm-readline-perl-perl make libtap-harness-archive-perl
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bzip2 ca-certificates file
  libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libbrotli1
  libcurl4 libexpat1 libgdbm-compat4 libgdbm6 libicu70 libjansson4
```



```
root@d51e0ec47445: /var/www/html
root@d51e0ec47445:/# ls
bin  dev  home  lib32  libx32  mnt  proc  run  srv  tmp  var
boot  etc  lib  lib64  media  opt  root  sbin  sys  usr
root@d51e0ec47445:/# cd /var/www/html
root@d51e0ec47445:/var/www/html# apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  git-man less libbsd0 libcbor0.8 libcurl3-gnutls libedit2 liberror-perl
  libfido2-1 libmd0 libx11-6 libx11-data libxau6 libxcb1 libxdmcp6 libxext6
  libxmuu1 openssh-client patch xauth
Suggested packages:
  gettext-base git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui
  gitk gitweb git-cvs git-mediawiki git-svn keychain libpam-ssh monkeysphere
  ssh-askpass ed diffutils-doc
The following NEW packages will be installed:
  git git-man less libbsd0 libcbor0.8 libcurl3-gnutls libedit2 liberror-perl
  libfido2-1 libmd0 libx11-6 libx11-data libxau6 libxcb1 libxdmcp6 libxext6
  libxmuu1 openssh-client patch xauth
0 upgraded, 20 newly installed, 0 to remove and 0 not upgraded.
Need to get 6787 kB of archives.
After this operation, 29.7 MB of additional disk space will be used.
Do you want to continue? [Y/n]

root@d51e0ec47445:/var/www/html# git clone https://github.com/ankita044/DevOps-l
ab.git
Cloning into 'DevOps-lab'...
remote: Enumerating objects: 8, done.
remote: Counting objects: 100% (8/8), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 8 (delta 2), reused 8 (delta 2), pack-reused 0
Receiving objects: 100% (8/8), done.
Resolving deltas: 100% (2/2), done.
root@d51e0ec47445:/var/www/html#

root@d51e0ec47445:/var/www/html# service apache2 start
* Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.8. Set the 'ServerName' directive globally to suppress this message
*
root@d51e0ec47445:/var/www/html#

root@d51e0ec47445:/var/www/html# ls
DevOps-lab  index.html
root@d51e0ec47445:/var/www/html# exit
exit
```