

## Assignment no 1

### How to run docker commands without sudo?

**Point 1:** If we run docker command then we get permission denied error.

```
bhushan@ubuntu:~$ docker images
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/json": dial unix /var/run/docker.sock: connect: permission denied
bhushan@ubuntu:~$
```

**Point 2:** If we want to run docker then we must use sudo because docker user is not present in the sudoers list.

```
bhushan@ubuntu:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
bhushan@ubuntu:~$
```

**Point 3:** If we want to run docker commands without using sudo then we have add docker user in the sudoers list. OR We can add current user into the docker group.

A] Check various groups in the Linux system.

```
bhushan@ubuntu:~$ groups
bhushan adm cdrom sudo dip plugdev lpadmin lxd sambashare
bhushan@ubuntu:~$
```

B] Add current user into the docker group. So first we fire command to list all the groups and then add user into docker group.

```
bhushan@ubuntu:~$ cut -d: -f1 /etc/group | sort
adm
audio
avahi
avahi-autoipd
backup
bhushan
bin
bluetooth
cdrom
colord
crontab
daemon
dialout
dip
disk
docker
fax
floppy
fwupd-refresh
games
gdm
geoclue
gnats
input
irc
kmem
```

```

bhushan@ubuntu: ~
bhushan@ubuntu:~$ sudo usermod -aG docker $USER
bhushan@ubuntu:~$

```

C] Changes not reflected in current terminal. Now we have to refresh the terminal.

```

bhushan@ubuntu:~$ sudo usermod -aG docker $USER
bhushan@ubuntu:~$ exec su -l $USER
Password:
bhushan@ubuntu:~$ docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
bhushan@ubuntu:~$ docker container ps
docker: 'container' is not a docker command.
See 'docker --help'
bhushan@ubuntu:~$ docker container ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
bhushan@ubuntu:~$ groups
bhushan adm cdrom sudo dip plugdev lpadmin lxd sambashare docker
bhushan@ubuntu:~$

```