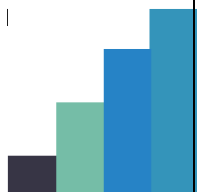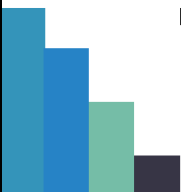# SPRINTS DEVOPS

Task 1

NAME: ZEYAD MAGDY IBRAHIM MOHAMED

Under supervision of

Dr. Mohamed Fakhruldeen

1   WHAT IS A DOCKER:

The Docker technology uses the Linux kernel and features of the kernel,
like Cgroups and namespaces, to segregate processes so they can run independently. This
independence is the intention of containers—the ability to run multiple processes and
apps separately from one another to make better use of your infrastructure
while retaining the security you would have with separate systems.

Traditional Linux containers vs. Docker
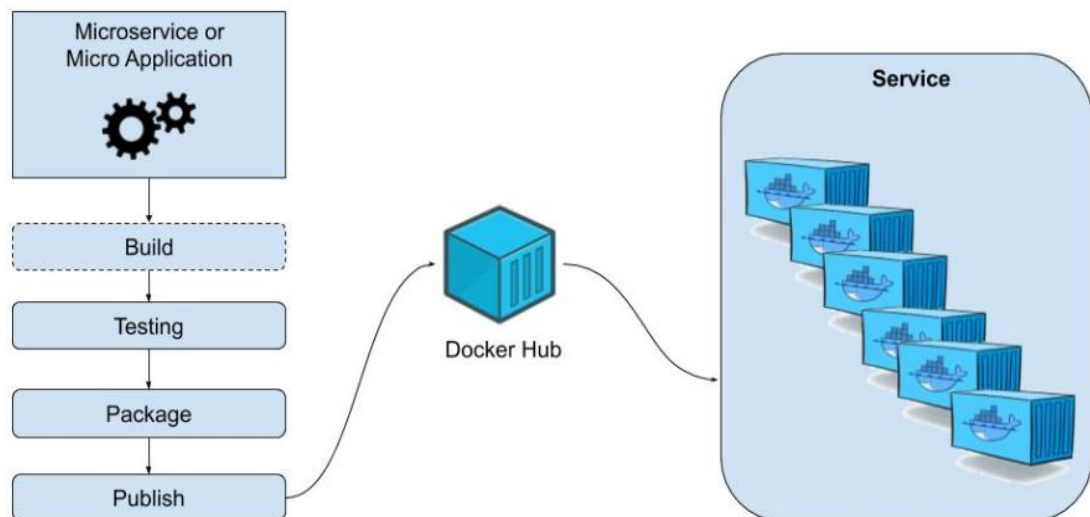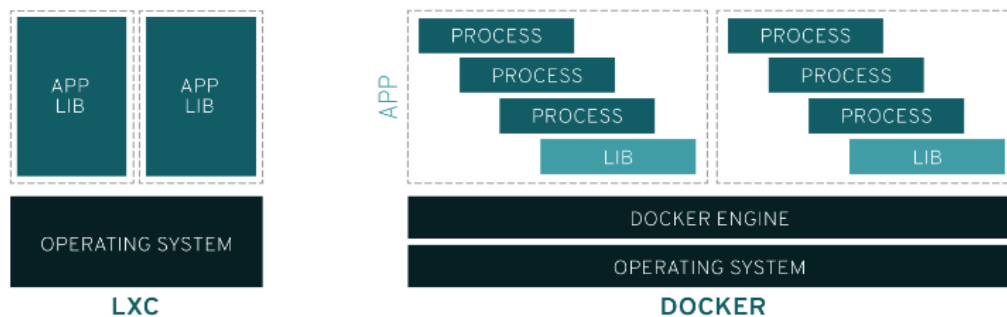
2   TO RUN DOCKER FILE AND CREATE DOCKER IMAGE:

2.1   DOCKER FILE

```
FROM python:3.8

WORKDIR /var/src/app

COPY README.md .
COPY sprints.py .
COPY test.py .
COPY sshd.sh .
COPY SecuringSSH.PNG .


CMD ["python" , "./sprint.py"]
```

2.2   RUNNING DOCKER FILE TO CREATE DOCKER IMAGE

2.2.1   IN SHELL:

2.2.1.1   DOCKER BUILD -T 'NLM'   // TO BUILD FILE AND INSTALL NEEDED PACKAGES

2.2.1.2   DOCKER IMAGES // TO SEE THE IMAGES OF OUR DOCKER LISTED

2.2.1.3   DOCKER RUN -TI SPRINTS // TO RUN OUR DOCKER IMAGE FILE

```
PS C:\PfM\Python_files\Docker\docker_test> docker run -ti nlm
estimated noise standard deviation = 0.06960368205949967
PS C:\PfM\Python_files\Docker\docker_test>
```