||DOCKER||

**Docker Installation:**

* $ sudo apt-get update -y
* $ sudo apt-get upgrade -y
* $ sudo apt-get update -y
* $ cd /etc/\*release\*
* $ sudo apt-get upgrade -y
* $ sudo apt-get remove docker docker-engine docker.io containerd runc
* $ sudo apt install docker.io
* $ sudo systemctl start docker
* $ sudo systemctl status docker
* $ sudo systemctl enable docker
* $ sudo systemctl status docker
* $ docker –version

**Creating Docker File & Docker Image**

* cd database/
* touch Dockerfile
* sudo vi Dockerfile

FROM mysql:latest

ENV MYSQL\_DATABASE my\_DB

ENV MYSQL\_ROOT\_PASSWORD priyanka

ENV MYSQL\_USER priya

ENV MYSQL\_PASSWORD priyanka

EXPOSE 3306

* sudo docker build -t database:database .
* cd backend/
* git clone https://github.com/Priya412-coder/new\_chatapp-1.git
* sudo vi Dockerfile

FROM python:3.6

RUN apt-get update

RUN apt-get install --yes python3-pip

RUN mkdir /new\_chatapp

COPY /new\_chatapp-1 /new\_chatapp

WORKDIR /new\_chatapp

RUN pip3 install -r requirements.txt

RUN pip3 install mysqlclient

EXPOSE 8000

WORKDIR /new\_chatapp/fundoo/

ENTRYPOINT python manage.py migrate && python3 manage.py runserver 0.0.0.0:8000

* sudo docker build -t backend:backend\_server .

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* cd frontend/
* Sudo vi Dockerfile

FROM ubuntu

RUN apt-get update

RUN apt-get install -y nginx

COPY nginx.conf /etc/nginx/sites-available/fundoo

RUN ln -s /etc/nginx/sites-available/fundoo /etc/nginx/sites-enabled

RUN rm -rf /etc/nginx/sites-enabled/default

EXPOSE 80

CMD ["nginx", "-g", "daemon off;"]

* sudo vi nginx.conf

server {

listen 80;

server\_name \_default;

#location = /favicon.ico { access\_log off; log\_not\_found off; }

location /static/ {

root /new\_chatapp/fundoo;

}

location / {

include proxy\_params;

proxy\_pass http://backend\_server:8000;

}

}

* sudo docker build -t frontend:frontend\_server .

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**Creating Docker Container:**

* Sudo docker run -it –name database -d imageID/imageName
* sudo docker run -it --name backend\_server --link exciting\_hawking -d b838fb0cdf0f
* sudo docker run -it --name frontend -p 80:80 --link backend\_server -d f2f51123a512
* sudo docker ps
* **to get inside container**
* sudo docker exec -it containerName/contaierID /bin/bash

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**other**

* **to delete image**
* sudo docker rmi -f imageID/imageName
* **to delete container**
* sudo docker rm -f containerID/contaierName
* **to check the IP Port of container**
* sudo docker exec -it containerID/containerName cat /etc/hosts