**SETTING UP OWNCLOUD DEVELOPMENT ENVIRONMENT AND MYSQL DATABASE IN DOCKER**

**INTRODUCTION**

Hello,I am Arun. I am a B.Tech student of [COLLEGE NAME]

I have created a project on Docker, based on the concepts learnt from World Record holder Vimal Daga's Docker Training.

REQUIREMENTS:

ORACLE VIRTUAL BOX

BASE OPERATING SYSTEM: RED HAT ENTERPRISE LINUX (RHEL8)

RAM: 4 GB

STORAGE: 250GB

CPU alloted in Virtual BOX: 2CPUs

Dockeris a system that provides pre-configured, self-contained applications, frameworks, and software stacks, such as WordPress, Golang, or LAMP. Even entire Linux distributions can be run in Docker. When deployed, these software packages are referred to as containers. Docker also allows you to create your own containers that include any custom software.

OwnCloud is a file sharing server that permits you to store your personal content, like documents and pictures, in a centralized location, much like Dropbox.

The difference with OwnCloud is that it is free and open-source, which allows anyone to use and examine it. It also returns the control and security of your sensitive data back to you, thus eliminating the utilization of a third-party cloud hosting service.

Docker Compose is a complementary system which helps you link together individual Docker containers so they can work together.

**PROJECT OBJECTIVE**

Configuring OwnCloud and MySQL images from Docker Hub offers the following benefits:

* Updating your software is as simple as downloading the latest images from Docker Hub.
* Images and containers are self-contained, which means that they are easy to clean up if you decide to remove them.

**PREREQUISITES:**

**-----------------**

**In order to complete the steps in this guide, you will need the following:**

**1. Root access to the OS.**

**2. YUM properly configured**

**3. Docker installed**

**4. MySQL image installed**

**5. Owncloud image installed**

**STEPS:**

**1. Disable the firewall : systemctl stop firewalld**

**2. Disable SELinux: setenforce 0**

**3. To see all docker images: docker images**

**4. Create new folder: mkdir myproject**

**cd myproject**

**5. Create a file named “docker-compose.yml” inside the “myproject” directory.**

**cd mydrupal**

**vim docker-compose.yml**

**6. Enter the source code**

**version: '3'**

**services:**

**arundbos:**

**image: mysql:5.7**

**volumes:**

**- mysql\_storage:/var/lib/mysql**

**environment:**

**MYSQL\_ROOT\_PASSWORD: arun**

**MYSQL\_USER: arun**

**MYSQL\_PASSWORD: arun**

**MYSQL\_DATABASE: mydb**

**restart: always**

**owncloudos:**

**image: owncloud:latest**

**volumes:**

**- owncloud\_Storage:/var/www/html**

**depends\_on:**

**- arundbos**

**ports:**

**- 8081:80**

**environment:**

**OWNCLOUD\_DB\_HOST: arun**

**OWNCLOUD\_DB\_USER: arun**

**OWNCLOUD\_DB\_PASSWORD: arun**

**7. Run the docker-compose file: docker-compose up -d**

**8. Inpect the owncloud container using its container ID:**

**docker inspect [CONTAINER ID]**

**9. Get the IP address of owncloud container.**

**10. Open the URL in browser.**

**11. Proceed with the Owncloud installation steps and finish configuring the website.**

SCREENSHOTS:























