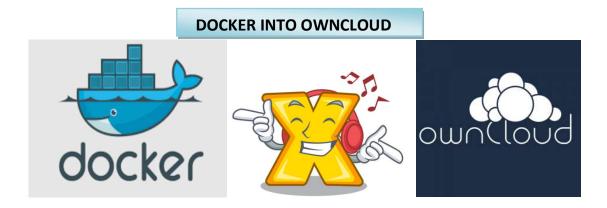
DOCKER PROJECT : IIEC RISE TRAINING APRIL 2020

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Tired of file sharing/sync/cloud services like iCloud and Dropbox? Maybe you want to have more control over your own assets. Why don't you run your own service using ownCloud?

This brief demo will guide you how to run your ownCloud on any server with Containers

Lets first grab some basics. About what is docker and own cloud

Docker

Docker Inc. was founded by Solomon Hykes and Sebastien Pahl .Docker is a set of platform as a service products that uses OS-level virtualization to deliver software in packages called containers. Containers are isolated from one another and bundle their own software, libraries and configuration files; they can communicate with each other through well-defined channels.

Own cloud

ownCloud is a self-hosted file sync and share server. It provides access to your data through a web interface, sync clients or WebDAV while providing a platform to view, sync and share across devices easily — all under your control.

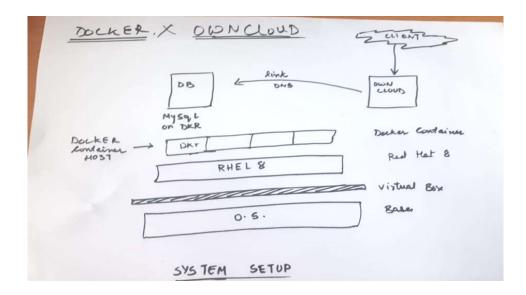
ownCloud's open architecture is extensible via a simple but powerful API for applications and plugins and it works with any storage.

Set up for project

Following is the description of the set up I used for building the project:

- 1. Oracal Virtual Box
- 2. RedHat Linux RHEL8
- 3. Docker
- 4. Mysql
- 5. Owncloud

Side note: use Bridge Adapter in Networks if Running on Virtual Machine



Pre requistics / installation

- 1. Installing red hat : refer to the IIEC rise you tube vedios by vimal sir: https://www.youtube.com/watch?v=8Q83qs2MAVA&list=PLAi9X1uG6 jZ2b1mUmrUcc aEoc8tfss8e&index=3
- 2. Installing docker: refer to the IIEC rise you tube vedios by vimal sir: https://www.youtube.com/watch?v=NPgXHA41-YM&t=7617s

3. Yum configuration commands:
https://www.youtube.com/watch?v=DPyohwkqvHo&list=PLAi9X1uG6j
Z2b1mUmrUcc aEoc8tfss8e&index=15

4. Setting docker compose:

https://www.youtube.com/watch?v=3Kn6_b-1mK4&list=PLAi9X1uG6jZ30QGz7FZ55A27jPeY8EwkE

Environment setup commands:

The following table explains the basic commands to make sure that we do not make any silly errors

SR NO.	REQUIRMENT	COMMAND
1.	To prevent any firewall intereptions	systemctl stop firewalld
2.	To connect to web server	systemetl start httpd
3.	To start the docker servvices	systemetl start docker
4.	To remove any previous containers	Docker rm <cont. id=""></cont.>

Project assembly:

Once the environment of redhat 8 and docker and mysql is set up we can start with our project oriented development:

1. Make a directory in your root folder, go into that directory

```
[root@desshi ~]#
[root@desshi ~]# mkdir directorio0
[root@desshi ~]# ls
anaconda-ks.cfg directorio0 install.log rpmbuild
Desktop home install.log.syslog
[root@desshi ~]# cd directorio0/
[root@desshi directorio0]# ls
[root@desshi directorio0]# pwd
/root/directorio0
[root@desshi directorio0]#
```

2. Form a file with the name < docker-compose.yml > in that dir

```
root@localhost:~/mycompose 

root@localhost:~/mycompose 

File Edit View Search Terminal Help

[root@localhost ~]# ls
anaconda-ks.cfg dkr3 g
b dkrjgo initial-setup-ks.cfg p
b.txt Documents mom
dead.letter Downloads mom1
Pesktop

[root@localhost -]# cd mycompose
[root@localhost mycompose]# ls
docker-compose.yml

[root@localhost mycompose]# vim docker-compose.yml

[root@localhost mycompose]#

[root@localhost mycompose]#

Interprise Linux

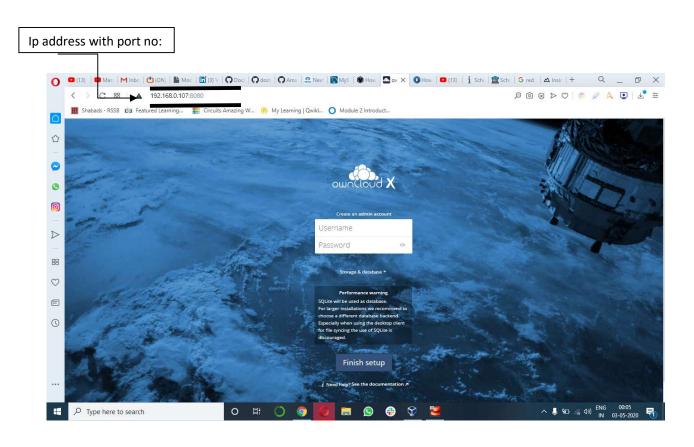
Enterprise Linux
```

3. copy the code written in the file "docker-compose.yml" provided in the repo .

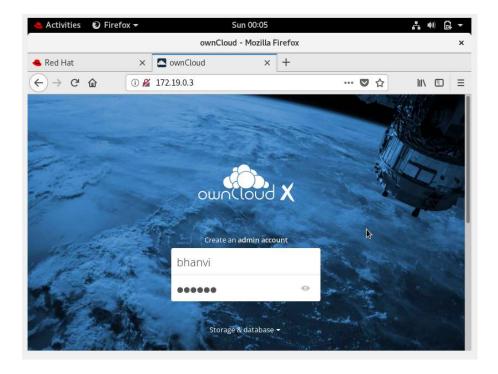
4.Run < docker-compose up > command and here we go

```
Activities 🕟 Terminal 🕶
                                        Sun 14:05
                                                                               A 🐠 🖹
                               root@localhost:~/mycompose
File Edit View Search Terminal Help
[root@localhost mycompose]# ls
docker-compose.yml
[root@localhost mycompose]# vim docker-compose.yml
[root@localhost mycompose]# docker-compose up
Creating mycompose_mysql_os_1 ... done
Creating mycompose_owncloud_os_1 ... done
Attaching to mycompose_mysql_os_1, mycompose_owncloud os 1
                | 2020-05-03 08:35:27+00:00 [Note] [Entrypoint]: Entrypoint scrip
t for MySQL Server 8.0.20-1debian10 started.
              | 2020-05-03 08:35:31+00:00 [Note] [Entrypoint]: Switching to ded
icated user 'mysql'
                2020-05-03 08:35:32+00:00 [Note] [Entrypoint]: Entrypoint scrip
t for MySQL Server 8.0.20-1debian10 started.
                | 2020-05-03T08:35:34.278921Z 0 [Warning] [MY-011070] [Server] 'D
isabling symbolic links using --skip-symbolic-links (or equivalent) is the defau
lt. Consider not using this option as it' is deprecated and will be removed in a
 future release.
                2020-05-03T08:35:34.279966Z 0 [System] [MY-010116] [Server] /us
r/sbin/mysqld (mysqld 8.0.20) starting as process 1
                2020-05-03T08:35:34.819317Z 1 [System] [MY-013576] [InnoDB] Inn
oDB initialization has started.
                2020-05-03T08:35:39.233267Z 1 [System] [MY-013577] [InnoDB] Inn
oDB initialization has ended.
```

5. Now in you browser run << container ip>:8080 > to see your page



6. Acces the page through username and password



7. Hurray now you can start synchronizing and sharing your files!

The stepwise process can be seen in the snapshorts folder also.

