DOCKER ASSIGNMENT LAB1

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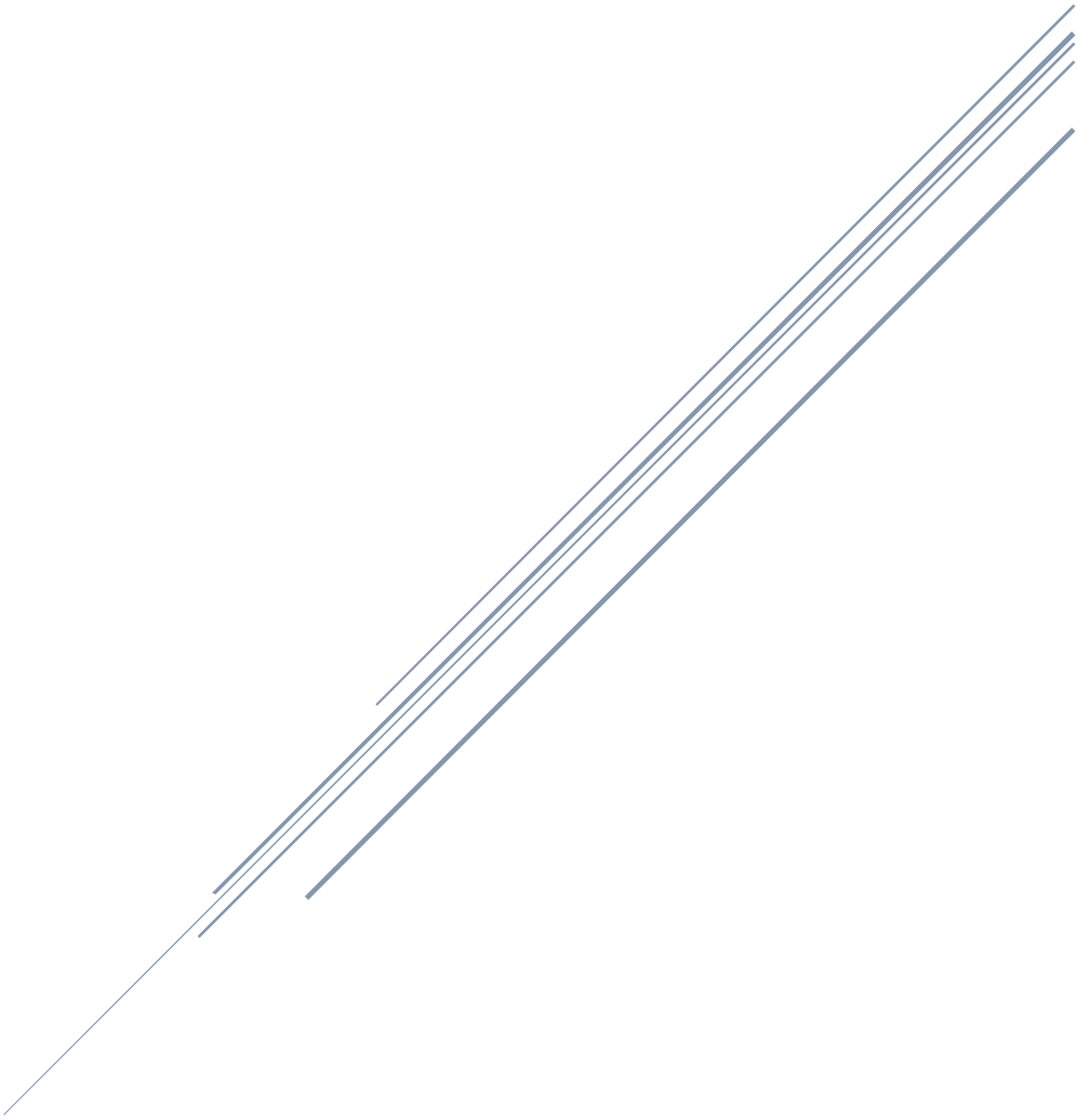


1) sudo yum install -y yum-utils device-mapper-persistent-data lvm2
//Installed Required Dependencies:

```
[ingy@localhost ~]$ sudo yum install -y yum-utils device-mapper-persistent-data
lvm2
Updating Subscription Management repositories.
Last metadata expiration check: 0:04:02 ago on Sat 27 Apr 2024 11:26:01 PM EEST.
Package device-mapper-persistent-data-1.0.6-3.el9_3.x86_64 is already installed.
Package lvm2-9:2.03.21-3.el9.x86_64 is already installed.
Dependencies resolved.
```

2)sudo yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo

//Added Docker Repo

```
[ingy@localhost ~]$ sudo yum-config-manager --add-repo https://download.docker.c
om/linux/centos/docker-ce.repo
Updating Subscription Management repositories.
Adding repo from: https://download.docker.com/linux/centos/docker-ce.repo
[ingy@localhost ~]$ sudo yum install docker-ce docker-ce-cli containerd.io
Updating Subscription Management repositories.
Docker CE Stable - x86_64                       93 kB/s |  44 kB     00:00
Last metadata expiration check: 0:00:01 ago on Sat 27 Apr 2024 11:31:51 PM EEST.
Dependencies resolved.
================================================================================
```

3) sudo yum install docker-ce docker-ce-cli containerd.io

//Installed Docker Engine

```
[ingy@localhost ~]$ sudo yum install docker-ce docker-ce-cli containerd.io
Updating Subscription Management repositories.
Docker CE Stable - x86_64                       93 kB/s |  44 kB     00:00
Last metadata expiration check: 0:00:01 ago on Sat 27 Apr 2024 11:31:51 PM EEST.
Dependencies resolved.
================================================================================
```

4)Started & Enabled Docker

```
Complete!
[ingy@localhost ~]$ sudo systemctl start docker
[sudo] password for ingy:
[ingy@localhost ~]$ sudo systemctl enable docker
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /us
r/lib/systemd/system/docker.service.
[ingy@localhost ~]$
```

5) Checking the Version

```
[ingy@localhost ~]$ sudo docker --version
Docker version 26.1.0, build 9714adc
```

6) sudo docker run -d -e POSTGRES_USER=odoo -e POSTGRES_PASSWORD=odoo -e POSTGRES_DB=postgres --name db postgres:15

//Start a PostgreSQL server

```
[ingy@localhost ~]$ sudo docker run -d -e POSTGRES_USER=odoo -e POSTGRES_PASSWOR
D=odoo -e POSTGRES_DB=postgres --name db postgres:15
[sudo] password for ingy:
Unable to find image 'postgres:15' locally
15: Pulling from library/postgres
b0a0cf830b12: Downloading  9.485MB/29.15MB
b311dac095c3: Download complete
36163cea98c3: Download complete
```

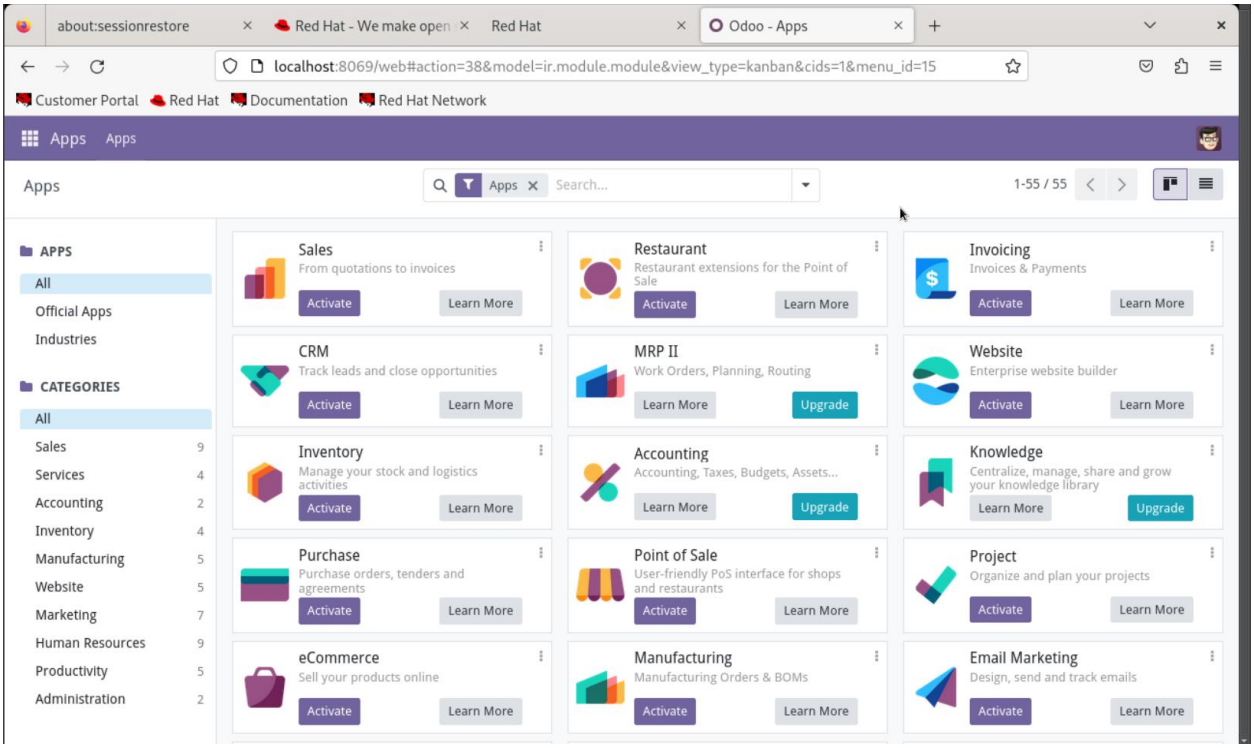
7)sudo docker run -p 8069:8069 --name odoo --link db:db -t odoo

```
[ingy@localhost ~]$ sudo docker run -p 8069:8069 --name odoo --link db:db -t odo
o
Unable to find image 'odoo:latest' locally
latest: Pulling from library/odoo
a271f97708e3: Downloading  8.416MB/30.44MB
33b5238fd169: Downloading  7.555MB/233.7MB
```

8) Running Server

```
Digest: sha256:1b0ac1ca971c2e8c9efdeb2915466808779072242 60c861f4c0ce7af676ad73b
Status: Downloaded newer image for odoo:latest
2024-04-27 20:50:02,782 1 INFO ? odoo: Odoo version 17.0-20240416
2024-04-27 20:50:02,783 1 INFO ? odoo: Using configuration file at /etc/odoo/odo
o.conf
2024-04-27 20:50:02,783 1 INFO ? odoo: addons paths: ['/usr/lib/python3/dist-pac
kages/odoo/addons', '/var/lib/odoo/addons/17.0', '/mnt/extra-addons']
2024-04-27 20:50:02,783 1 INFO ? odoo: database: odoo@172.17.0.2:5432
2024-04-27 20:50:02,967 1 INFO ? odoo.addons.base.models.ir_actions_report: Will
 use the Wkhtmltopdf binary at /usr/local/bin/wkhtmltopdf
2024-04-27 20:50:03,529 1 INFO ? odoo.service.server: HTTP service (werkzeug) ru
nning on 5d17bfc9ee2e:8069
```

9) Container for odoo(image)



Odoo implements its system through a modular architecture where business functionalities are organized into modules. These modules define data models, encapsulate business logic, and interact with a relational database management system, primarily PostgreSQL, to store and manage data.