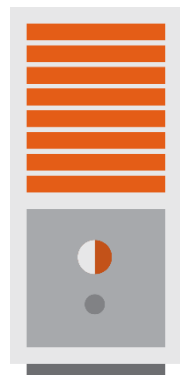
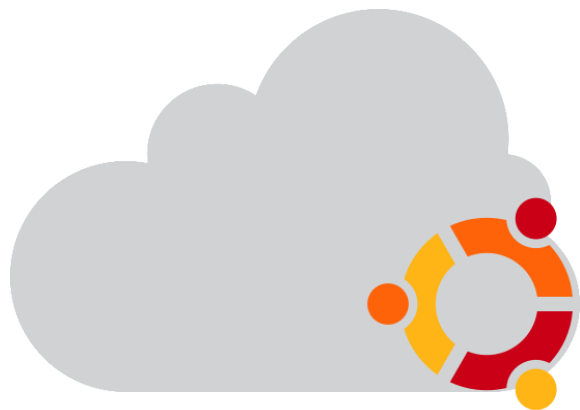
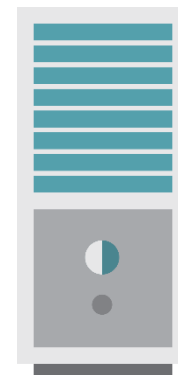


Installing Ubuntu Linux and CentOS Linux

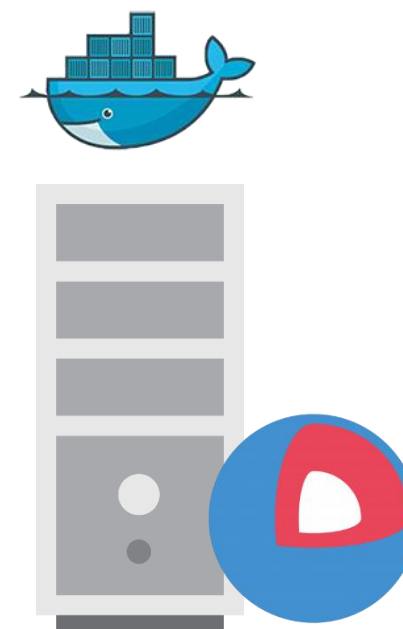




UBUNTU



CENTOS

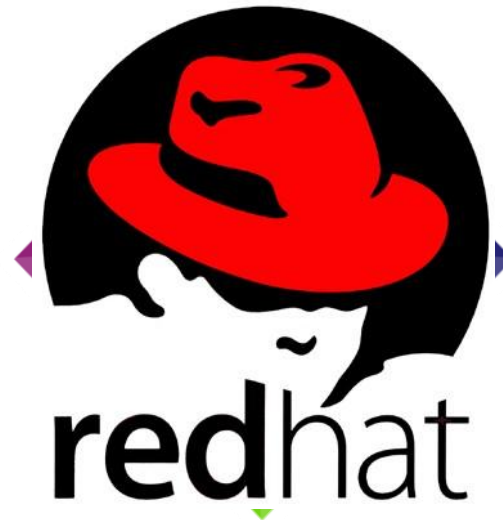


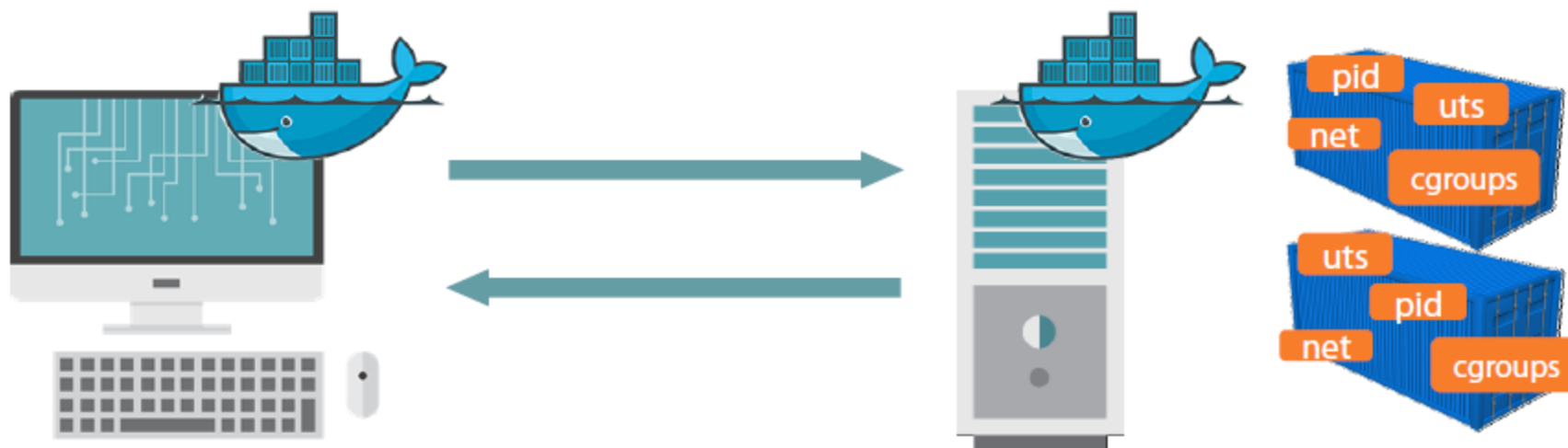
CentOS

(Community Edition)

RHEL

(Enterprise Edition)



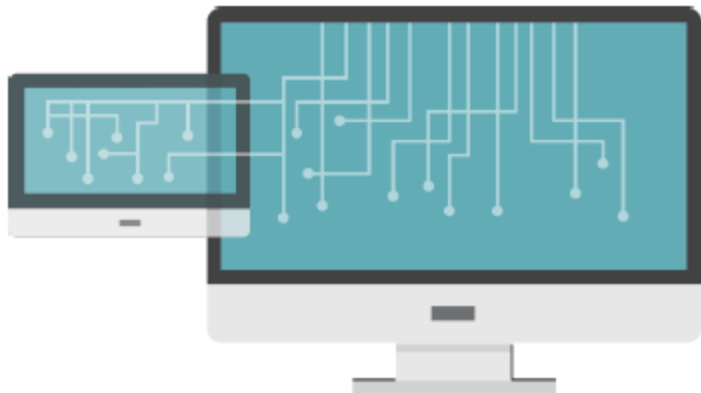


Docker Client

Docker Deamon



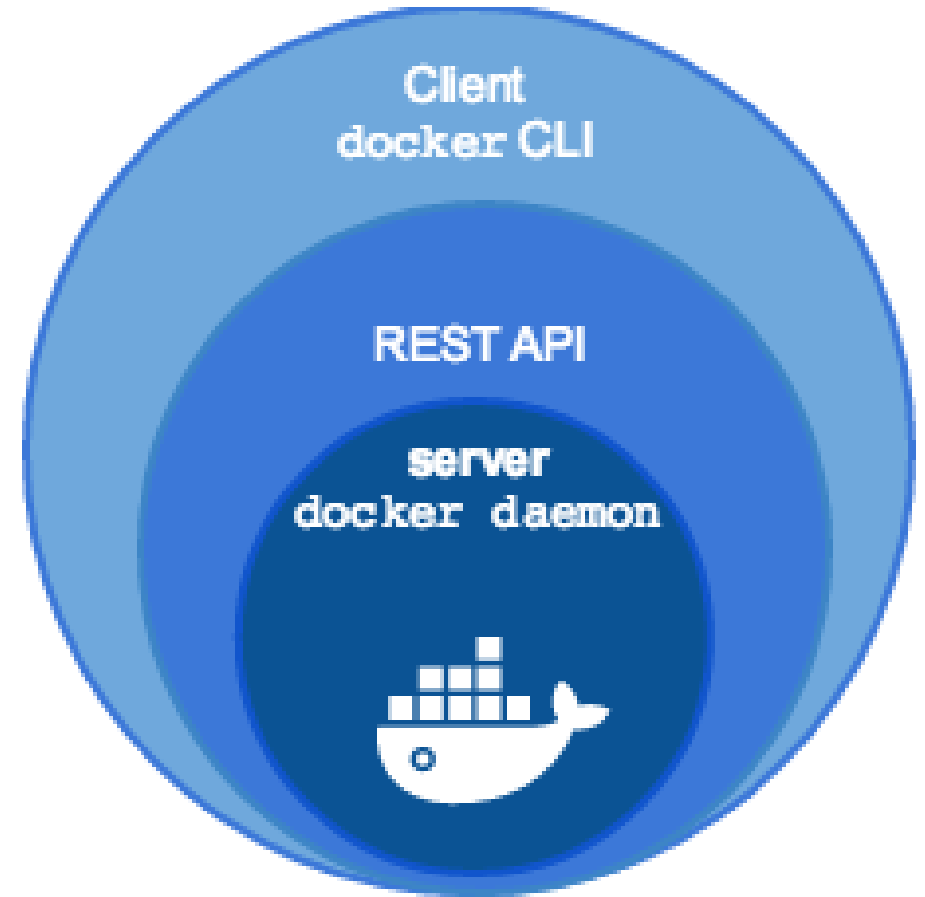
Docker Client and Docker Deamon In One Package



Docker Engine, the client-server application made up of

The Docker daemon, a REST API that specifies interfaces for interacting with the daemon, and

A command line interface (CLI) client that talks to the daemon (through the REST API wrapper)



Installing Docker in Ubuntu

Installing Docker in CentOS/RHEL

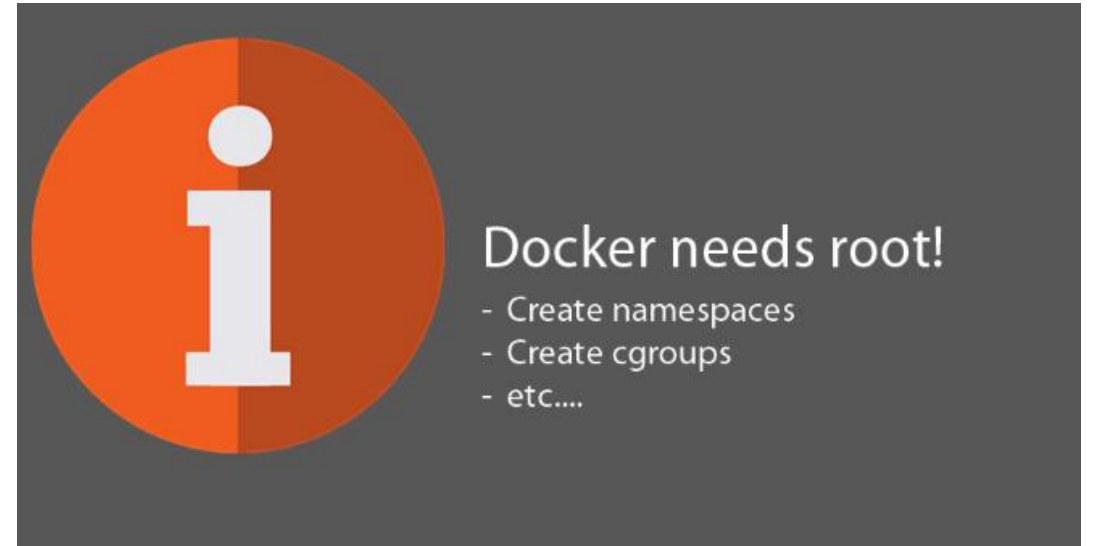
Installing Docker in Windows

Updating Docker



Make sure you back your data up
before performing upgrades etc...

Granting Docker Control to non-root users





Binds to `/var/run/docker.sock`

```
root@ubuntu1404-02:~#  
root@ubuntu1404-02:~# ls -l /run
```

```
-rw-r--r-- 1 root    root      5 Dec 15 08:50 dhclient.eth0.pid  
-rw-r--r-- 1 root    root      3 Dec 15 08:50 docker.pid  
srw-rw---- 1 root    docker    0 Dec 15 08:50 docker.sock  
drwxrwxr-x 2 root    root      40 Dec 15 08:50  
drwxrwxrwt 3 root    root     60 Dec 15 08:50 lock  
-rw-r--r-- 1 root    root    171 Dec 15 08:50 mtd_dynamic
```

```
1-r--r-- 1 root      root      3 Dec 15 08:50 docker.pid
```



Adding Users to the Docker Group

- Control which user accounts are members of this group
- Regularly audit membership of the Docker Group

```
1-r--r-- 1 root      root      4 Dec 15 08:50 upstart-socket-bridge.pid
1-r--r-- 1 root      root      4 Dec 15 08:50 upstart-udev-bridge.pid
```

```
npoulton@ubuntu1404-02:~$  
npoulton@ubuntu1404-02:~$  
npoulton@ubuntu1404-02:~$ sudo gpasswd -a npoulton docker  
Adding user npoulton to group docker  
npoulton@ubuntu1404-02:~$
```


Configure Docker to Communicate with Network



Configure Docker to Communicate with Network

Docker Deamon

- > netstat -tlp [Make sure that docker is not listening on Network Port]
- > service docker stop
- > docker -H 192.168.56.50:2375 -d &
- > docker info

Docker Client

- > export DOCKER_HOST="tcp://192.168.56.50:2375"
- > docker info
- > docker version

How to listen to Docker socket deamon

- > export DOCKER_HOST

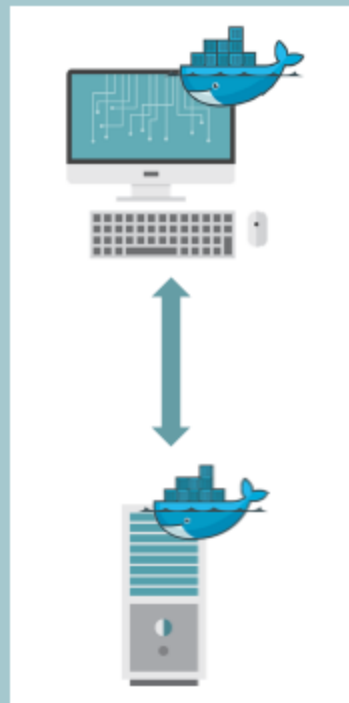
Module Recap



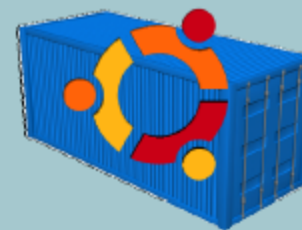
Install and Update
Docker

```
root@ubuntu1404-02:~#  
root@ubuntu1404-02:~#  
root@ubuntu1404-02:~#  
root@ubuntu1404-02:~# cat /etc/group  
....  
....  
lpadmin:x:110:npoulton  
sambashare:x:111:npoulton  
docker:x:112:npoulton  
root@ubuntu1404-02:~#
```

User Config



Client - Server



Working with
Containers