

Docker day 1

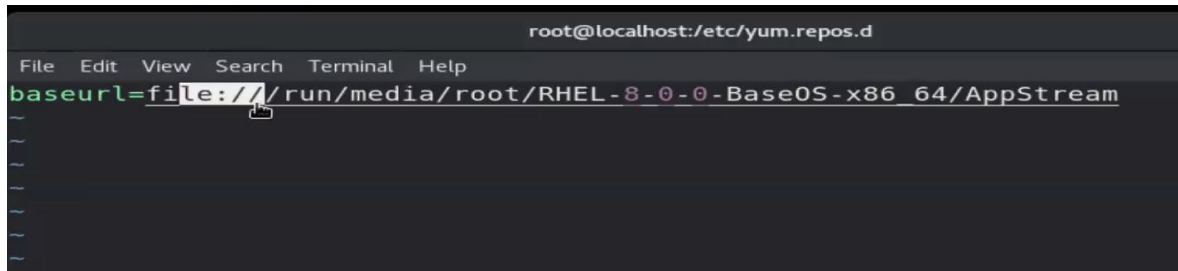
```
root@localhost:~  
File Edit View Search Terminal Help  
[root@localhost ~]#  
[root@localhost ~]#  
[root@localhost ~]# docker  
bash: docker: command not found...  
Failed to search for file: Cannot update read-only repo  
[root@localhost ~]#  
[root@localhost ~]# yum install docker-ce  
Updating Subscription Management repositories.  
Unable to read consumer identity  
This system is not registered to Red Hat Subscription Management. You can use subscription-manager to register.  
Error: There are no enabled repos  
[root@localhost ~]#  
[root@localhost ~]#  
[root@localhost ~]#
```

Yum install docker -ce

```
Activities Terminal Tue 20:47  
root@localhost:~  
File Edit View Search Terminal Help  
Unable to read consumer identity  
This system is not registered to Red Hat Subscription Management. You can use subscription-manager to register.  
Repository 'docker' is missing name in configuration, using id.  
Repository 'dvd1' is missing name in configuration, using id.  
Repository 'dvd2' is missing name in configuration, using id.  
Docker CE Stable - x86_64 230 B/s | 381 B 00:01  
docker 2.8 kB/s | 3.5 kB 00:01  
dvd1 100 kB/s | 3.2 kB 00:00  
dvd2 192 kB/s | 2.7 kB 00:00  
Failed to synchronize cache for repo 'docker-ce-stable', ignoring this repo.  
Package docker-ce-3:18.09.1-3.el7.x86_64 is already installed.  
Error:  
Problem: package docker-ce-3:19.03.13-3.el7.x86_64 requires containerd.io >= 1.2.2-3,  
but none of the providers can be installed  
- cannot install the best candidate for the job  
- package containerd.io-1.2.10-3.2.el7.x86_64 is excluded  
- package containerd.io-1.2.13-3.1.el7.x86_64 is excluded  
- package containerd.io-1.2.13-3.2.el7.x86_64 is excluded  
- package containerd.io-1.2.2-3.3.el7.x86_64 is excluded  
- package containerd.io-1.2.2-3.el7.x86_64 is excluded  
- package containerd.io-1.2.4-3.1.el7.x86_64 is excluded  
- package containerd.io-1.2.5-3.1.el7.x86_64 is excluded  
- package containerd.io-1.2.6-3.3.el7.x86_64 is excluded  
- package containerd.io-1.3.7-3.1.el7.x86_64 is excluded  
(try to add '--skip-broken' to skip uninstallable packages or '--nobest' to use not only best candidate packages)  
[root@localhost ~]# S
```

Installing yum – docker

HAVE A LOOK at the [INSTALLING DOCKER DOCUMENT](#).



```
root@localhost:/etc/yum.repos.d
File Edit View Search Terminal Help
baseurl=file:///run/media/root/RHEL-8-0-0-BaseOS-x86_64/AppStream
~
~
~
~
~
~
```

To copy lines in linux

like 3 line

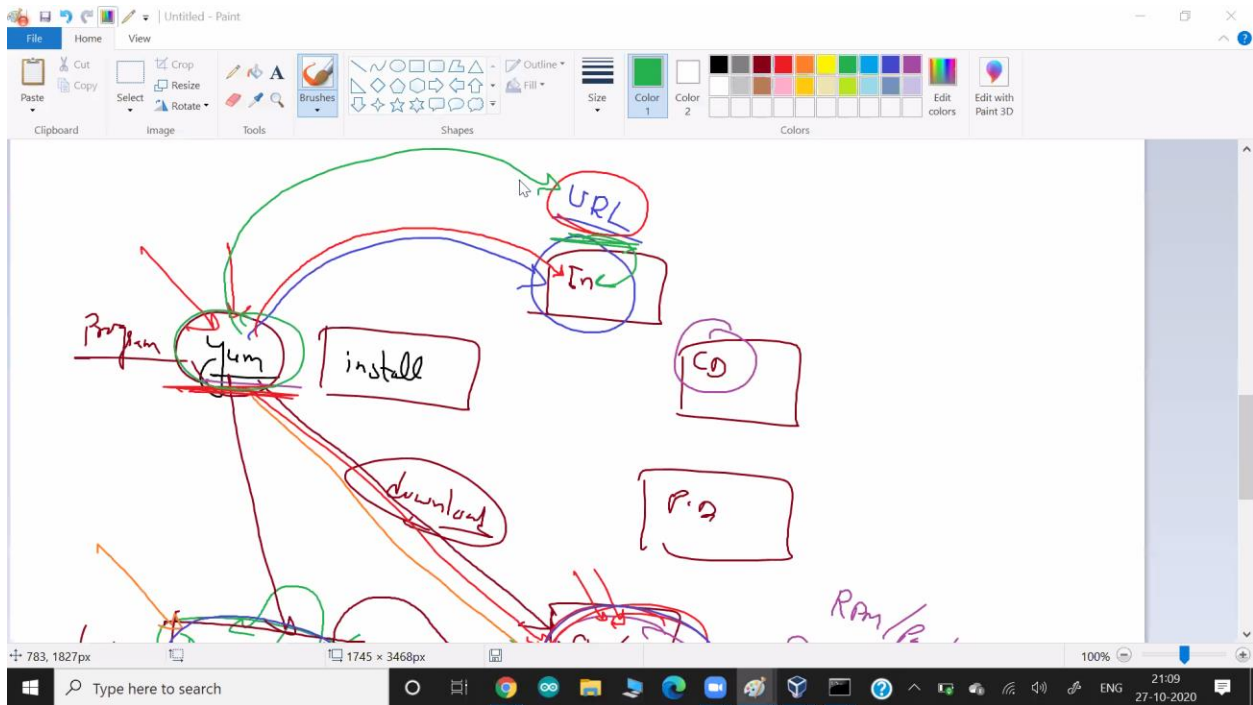
come to line 1

esc. 4yy-----copy

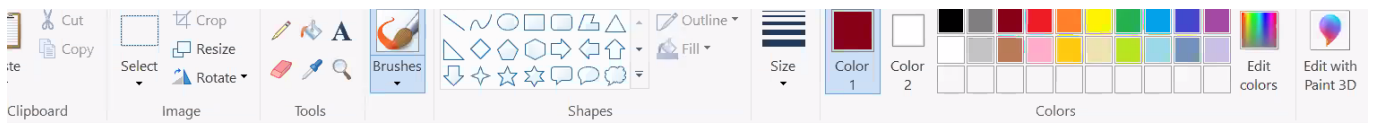
p- paste

***From another via dnf instead of yum which done yesterday
from aws class***

This is the process it is working though



Now download repos from the internet and from command prompt open that one then copy paste in like we done in yum install type



① # yum install docker-ce --nobest

Docker

```
File Edit View Search Terminal Help
[root@lw ~]# yum list docker-ce
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management. You can use su
bscription-manager to register.
Repository 'docker' is missing name in configuration, using id.
Repository 'dvd1' is missing name in configuration, using id.
Repository 'dvd2' is missing name in configuration, using id.
Installed Packages
docker-ce.x86_64 3:18.09.1-3.el7 @docker
Available Packages
docker-ce.x86_64 3:19.03.13-3.el7 docker
[Press ESC or double-click to exit full screen mode]
[root@lw ~]# rpm -q docker-ce
docker-ce-18.09.1-3.el7.x86_64
[root@lw ~]# systemctl start docker
[root@lw ~]#
```

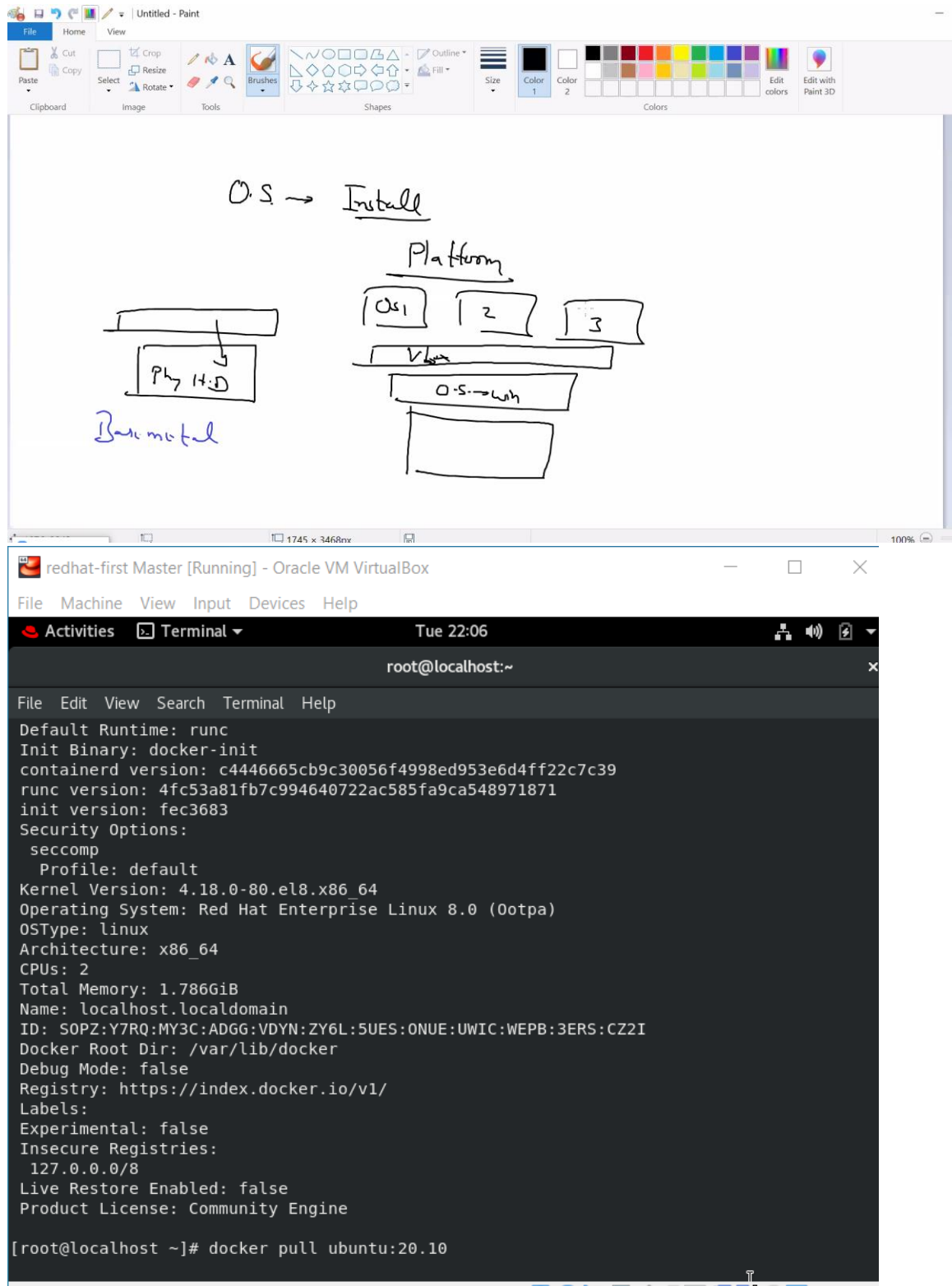
Handwritten notes: A yellow bracket on the left side of the terminal window is labeled "RHEL8". A yellow arrow points from the "Host" label to the terminal window.

```
root@lw:~
File Edit View Search Terminal Help
init version: fec3683
Security Options:
  seccomp
    Profile: default
Kernel Version: 4.18.0-80.el8.x86_64
Operating System: Red Hat Enterprise Linux 8.0 (Ootpa)
OSType: linux
Architecture: x86_64
CPUs: 2
Total Memory: 7.63GiB
Name: lw
ID: ZIDF:VEZR:WRMM:6CQ0:WX67:WKSQ:3WCD:FTW4:VNUN:GM3S:Q5GE:43DD
Docker Root Dir: /var/lib/docker
Debug Mode: false
Username: vimal13
Registry: https://index.docker.io/v1/
Labels:
Experimental: false
Insecure Registries:
  127.0.0.0/8
Live Restore Enabled: false
Product License: Community Engine

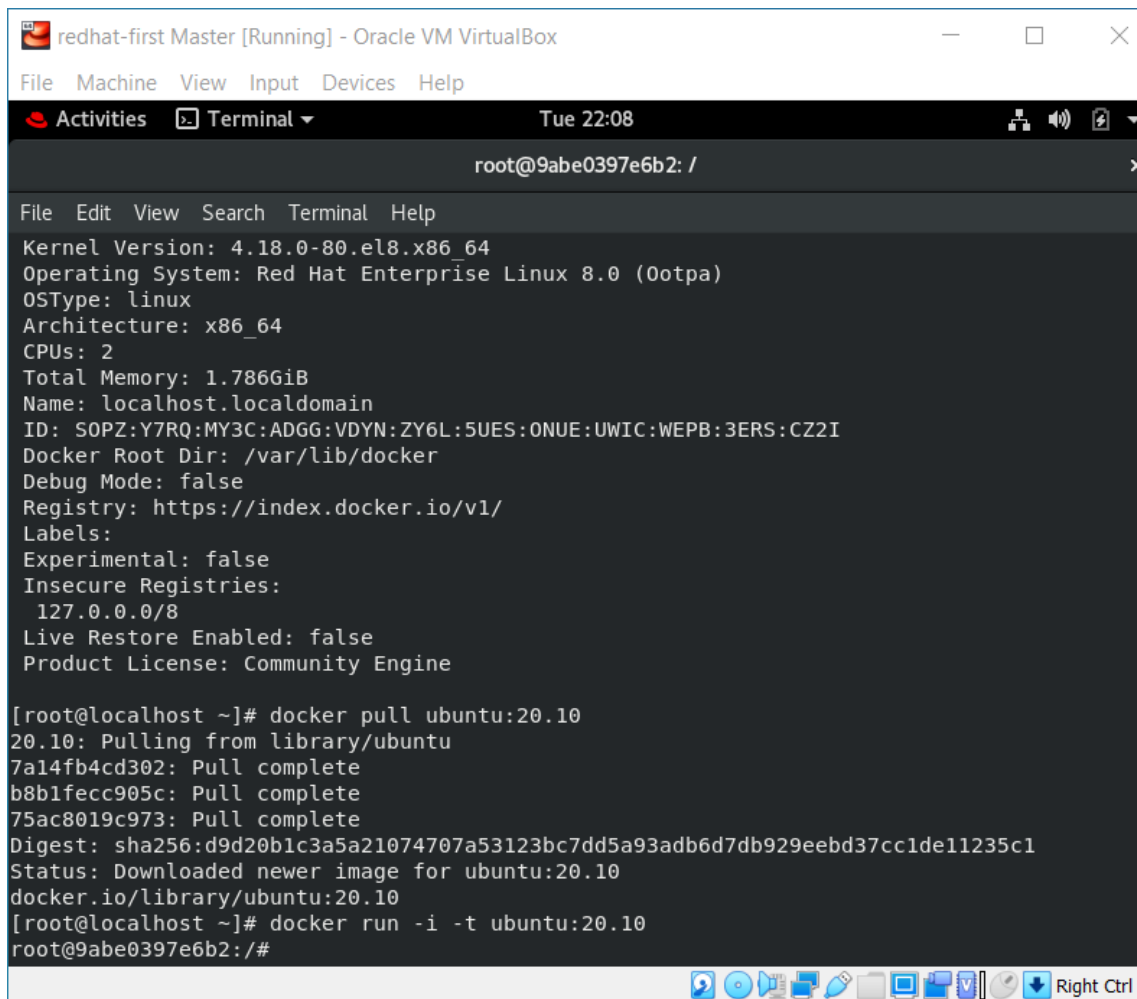
[root@lw ~]#
```

Red Hat Enterprise Linux

This is a Blueprint of How docker works
and how a normal OS like windows works



With Docker pull command we can download images of OS of ubuntu version or any OS according to our choice



```
redhat-first Master [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Tue 22:08
root@9abe0397e6b2: /

File Edit View Search Terminal Help
Kernel Version: 4.18.0-80.el8.x86_64
Operating System: Red Hat Enterprise Linux 8.0 (Ootpa)
OSType: linux
Architecture: x86_64
CPUs: 2
Total Memory: 1.786GiB
Name: localhost.localdomain
ID: SOPZ:Y7RQ:MY3C:ADGG:VDYN:ZY6L:5UES:ONUE:UWIC:WEPB:3ERS:CZ2I
Docker Root Dir: /var/lib/docker
Debug Mode: false
Registry: https://index.docker.io/v1/
Labels:
Experimental: false
Insecure Registries:
  127.0.0.0/8
Live Restore Enabled: false
Product License: Community Engine

[root@localhost ~]# docker pull ubuntu:20.10
20.10: Pulling from library/ubuntu
7a14fb4cd302: Pull complete
b8b1fecc905c: Pull complete
75ac8019c973: Pull complete
Digest: sha256:d9d20b1c3a5a21074707a53123bc7dd5a93adb6d7db929eebd37cc1de11235c1
Status: Downloaded newer image for ubuntu:20.10
docker.io/library/ubuntu:20.10
[root@localhost ~]# docker run -i -t ubuntu:20.10
root@9abe0397e6b2:/#
```

logged in from same downloaded image

Logging in into multiple OS in multiple Terminals.

redhat-first Master [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities Terminal Tue 22:14

root@localhost:~

File Edit View Search Terminal Tabs Help

root@9abe0397e6b2: ~ root@9b7b6257388c: / root@localhost:~

```
[root@localhost ~]# docker ps
```

| CONTAINER ID | IMAGE | COMMAND | CREATED | STATUS |
|--------------|--------------|-----------------------|---------------|---------|
| 9b7b6257388c | ubuntu:20.10 | "/bin/bash" | 2 minutes ago | Up 2 mi |
| nutes | | silly_ardinghelli | | |
| 9abe0397e6b2 | ubuntu:20.10 | "/bin/bash" | 5 minutes ago | Up 5 mi |
| nutes | | priceless_stonebraker | | |

```
[root@localhost ~]#
```

USE DOCKER PS

To check running DOCKER OS

```
[root@localhost ~]#
```

```
[root@localhost ~]#
```

```
[root@localhost ~]# docker ps
```

| CONTAINER ID | IMAGE | COMMAND | CREATED | STATUS |
|--------------|--------------|---------------|---------------|--------------|
| d3273aad98ab | ubuntu:20.10 | "/bin/bash" | 4 minutes ago | Up 4 minutes |
| | | kind_brattain | | |

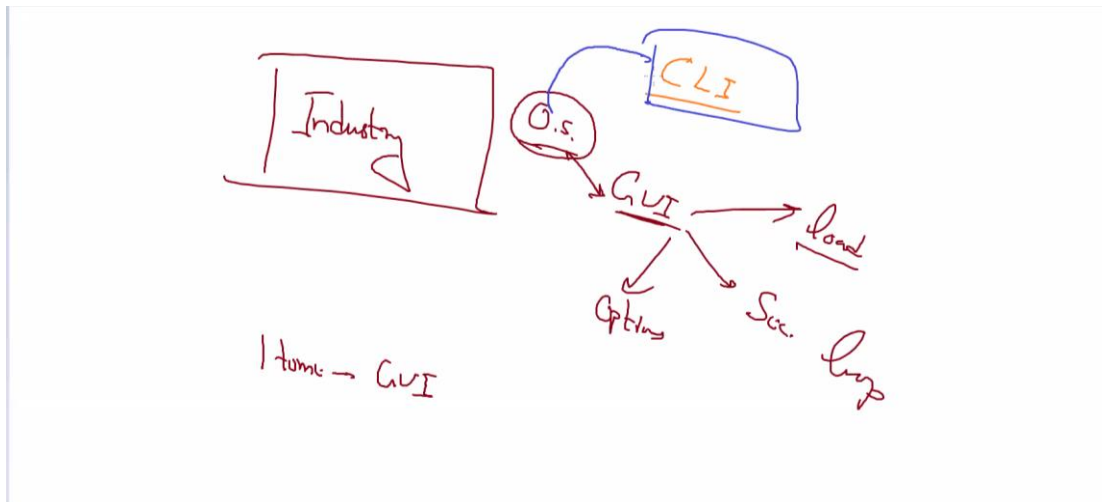
Red Hat Enterprise Linux

22:20

TO stop a Particular OS

Docker stop Docker name(AUTO CREATED)

```
[root@localhost ~]# docker ps
CONTAINER ID   IMAGE      PORTS   COMMAND   CREATED
d3273aad98ab   ubuntu:20.10  "/bin/bash"  4 minutes ago
Up 4 minutes
[root@localhost ~]# docker stop kind_brattain
kind_brattain
[root@localhost ~]#
[root@localhost ~]# docker ps
CONTAINER ID   IMAGE      COMMAND NAMES   CREATED
STATUS        PORTS
[root@localhost ~]#
```



To exit from a Docker OS terminal
write **exit** command

```
Activities Terminal Tue 22:32
root@localhost:~
File Edit View Search Terminal Tabs Help
root@9abe0397e6b2: ~ x root@localhost:~ x root@localhost:~ x
[root@localhost ~]# docker run -i -t ubuntu:20.10
root@9b7b6257388c:/# docker ps
bash: docker: command not found
root@9b7b6257388c:/# sudo su - root
bash: sudo: command not found
root@9b7b6257388c:/# exit
exit
[root@localhost ~]# docker images
REPOSITORY    TAG        IMAGE ID      CREATED      SIZE
ubuntu        20.10     da5958a2de8e  3 days ago  79.5MB
ubuntu        14.04     df043b4f0cf1  5 weeks ago  197MB
[root@localhost ~]#
```