Devops Day 2

Disclaimer:-

After Installing yum and httpd this practical is going on

If you haven't seen the day 1 and the document of installation of DEVops you can first visit that one then you can proceed from here.

```
[root@localhost ~]# docker info
Client:
 Debug Mode: false

Server:
 Containers: 6
  Running: 0
  Paused: 0
  Stopped: 6
 Images: 2
 Server Version: 18.09.1
 Storage Driver: overlay2
  Backing Filesystem: xfs
  Supports d_type: true
  Native Overlay Diff: true
 Logging Driver: json-file
 Cgroup Driver: cgroupfs
 Plugins:
  Volume: local
  Network: bridge host macvlan null overlay
  Log: awslogs fluentd gcplogs gelf journald json-fi
```

6 of 6 stopped

Now first terminal-Launcher 1 docker OS


```
      root@90e800a13523: /  ×        root@3d48e68b8c7d: /  ×          root@localhost:~

 Experimental: false
 Insecure Registries:
  127.0.0.0/8
 Live Restore Enabled: false
 Product License: Community Engine

[root@localhost ~]# docker run -it ubuntu:14.04                     I
root@90e800a13523:/# ifconfig
eth0       Link encap:Ethernet  HWaddr 02:42:ac:11:00:02
           inet addr:172.17.0.2  Bcast:172.17.255.255  Mask:255.255.0.0
           UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
           RX packets:40 errors:0 dropped:0 overruns:0 frame:0
           TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
           collisions:0 txqueuelen:0
           RX bytes:5422 (5.4 KB)  TX bytes:0 (0.0 B)

lo         Link encap:Local Loopback
           inet addr:127.0.0.1  Mask:255.0.0.0
           UP LOOPBACK RUNNING  MTU:65536  Metric:1
           RX packets:0 errors:0 dropped:0 overruns:0 frame:0
```

Now second terminal- Another docker OS with Same OS image is


```
      root@90e800a13523: /  ×        root@3d48e68b8c7d: /  ×          root@localhost:~

   update       Update configuration of one or more containers
   version      Show the Docker version information
   wait         Block until one or more containers stop, then print their

Run 'docker COMMAND --help' for more information on a command.

[root@localhost ~]# docker run -i -t ubuntu:14.04
root@3d48e68b8c7d:/# ifconfig
eth0       Link encap:Ethernet  HWaddr 02:42:ac:11:00:03
           inet addr:172.17.0.3  Bcast:172.17.255.255  Mask:255.255.0.0
           UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
           RX packets:16 errors:0 dropped:0 overruns:0 frame:0
           TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
           collisions:0 txqueuelen:0
           RX bytes:2086 (2.0 KB)  TX bytes:0 (0.0 B)

lo         Link encap:Local Loopback
           inet addr:127.0.0.1  Mask:255.0.0.0
           UP LOOPBACK RUNNING  MTU:65536  Metric:1
```

In third terminal

Direct run and exit


```
root@90e800a13523: /    ×        root@3d48e68b8c7d: /    ×         root@localhost:~      ×

[root@localhost ~]# docker run  -i -t ubuntu:14.04 datte
docker: Error response from daemon: OCI runtime create failed: container_linux.go:348:
starting container process caused "exec: \"datte\": executable file not found in $PATH"
: unknown.
ERRO[0001] error waiting for container: context canceled
[root@localhost ~]# docker run  -i -t ubuntu:14.04 date
Thu Oct 29 17:33:45 UTC 2020
[root@localhost ~]# docker ps-a
docker: 'ps-a' is not a docker command.
See 'docker --help'
[root@localhost ~]# docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
                    PORTS               NAMES
1eefefc085c4        ubuntu:14.04        "date"              16 seconds ago      Exited
 (0) 14 seconds ago                     boring_torvalds
4242743fe6c2        ubuntu:14.04        "datte"             22 seconds ago      Create
d                                       trusting_sanderson
3d48e68b8c7d        ubuntu:14.04        "/bin/bash"         About a minute ago  Up Abo
ut a minute                             trusting_rubin
90e800a13523        ubuntu:14.04        "/bin/bash"         About a minute ago  Up Abo
ut a minute                             friendly_galileo
9b7b6257388c        ubuntu:20.10        "/bin/bash"         2 days ago          Exited
 (127) 2 days ago                       silly_ardinghelli
```

Lets check exit status- upper side(centre)

==Another sleep command that waited for 5 seconds==


```
[root@localhost ~]# docker run  -i -t ubuntu:14.04 sleep 5
[root@localhost ~]#
```

The terminal command line comes after 5 seconds dure to this command

```
root@90e800a13523: /   ×          root@localhost:~        ×              root@loc

         collisions:0 txqueuelen:0
         RX bytes:2086 (2.0 KB)  TX bytes:0 (0.0 B)

lo       Link encap:Local Loopback
         inet addr:127.0.0.1  Mask:255.0.0.0
         UP LOOPBACK RUNNING  MTU:65536  Metric:1
         RX packets:0 errors:0 dropped:0 overruns:0 frame:0
         TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

root@3d48e68b8c7d:/# docker run -it ubuntu:14.04 sleep 5
bash: docker: command not found
root@3d48e68b8c7d:/# exit
exit
[root@localhost ~]#
[root@localhost ~]#
```

Now we will remove this

Only terminated will be removed

```
[root@localhost ~]# docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
                         PORTS                   NAMES
d095fb304d52        ubuntu:14.04        "sleep 5"           4 minutes ago       Exited
(0) 3 minutes ago                       happy_wright
1eefefc085c4        ubuntu:14.04        "date"              8 minutes ago       Exited
(0) 8 minutes ago                       boring_torvalds
4242743fe6c2        ubuntu:14.04        "datte"             8 minutes ago       Created
                                        trusting_sanderson
3d48e68b8c7d        ubuntu:14.04        "/bin/bash"         9 minutes ago       Exited
(127) About a minute ago                trusting_rubin
90e800a13523        ubuntu:14.04        "/bin/bash"         10 minutes ago      Up 10 m
inutes                                  friendly_galileo
9b7b6257388c        ubuntu:20.10        "/bin/bash"         2 days ago          Exited
(127) 2 days ago                        silly_ardinghelli
9abe0397e6b2        ubuntu:20.10        "/bin/bash"         2 days ago          Exited
(255) 27 hours ago                      priceless_stonebraker
56ac36fdcd68        ubuntu:14.04        "/bin/bash"         6 days ago          Exited
(255) 2 days ago                        heuristic_rubin
c597442473f2        ubuntu:14.04        "/bin/bash"         6 days ago          Exited
(255) 2 days ago                        gallant_roentgen
e3bd883ee649        ubuntu:14.04        "/bin/bash"         6 days ago          Exited
(255) 2 days ago                        brave_lumiere
caf6f123e3e6        ubuntu:14.04        "/bin/bash"         6 days ago          Exited
(255) 2 days ago                        fervent_hawking
[root@localhost ~]# docker rm fervent hawking
```

This fervert hawking will be removed

To check container ids of docker

```
caf6f123e3e6           ubuntu:14.04          "/bin/bash"
(255) 2 days ago                                 ferve
[root@localhost ~]# docker rm fervent_hawking
fervent_hawking
[root@localhost ~]# docker ps -a -q
d095fb304d52
1eefefc085c4
4242743fe6c2
3d48e68b8c7d
90e800a13523
9b7b6257388c
9abe0397e6b2
56ac36fdcd68
c597442473f2
e3bd883ee649
[root@localhost ~]# 
```

```
[root@localhost ~]# docker rm 'docker ps -a -q'
Error: No such container: docker ps -a -q
[root@localhost ~]# docker rm `docker ps -a -q`
d095fb304d52
1eefefc085c4
4242743fe6c2
3d48e68b8c7d
9b7b6257388c
9abe0397e6b2
56ac36fdcd68
c597442473f2
e3bd883ee649
Error response from daemon: You cannot remove a running container 90e800a135239b7155454
6aa5aafd105c1fa4e9945ddbcde8af2158c280a682e. Stop the container before attempting remov
al or force remove
[root@localhost ~]# docker rm `docker ps -a -q`
90e800a13523
[root@localhost ~]# docker rm `docker ps -a -q`
"docker rm" requires at least 1 argument.
See 'docker rm --help'.

Usage:  docker rm [OPTIONS] CONTAINER [CONTAINER...]

Remove one or more containers
[root@localhost ~]#
```

docker rm `docker ps –a –q`

one error came because one os is running so except that all remove dthen I
terminated that one then all are removed. To check as a nickname like d
we need to create atleast 1 then remove that one
now using nickname via alias

```
[root@localhost ~]# docker run  -i -t ubuntu:14.04
root@7f469194b703:/# hi
bash: hi: command not found
root@7f469194b703:/# exit
exit
[root@localhost ~]# docker ps -a -q
7f469194b703
[root@localhost ~]# alias d='docker rm `docker ps -a -q`'
[root@localhost ~]# docker ps -a -q
7f469194b703
[root@localhost ~]# d
7f469194b703
[root@localhost ~]# d
"docker rm" requires at least 1 argument.
See 'docker rm --help'.

Usage:  docker rm [OPTIONS] CONTAINER [CONTAINER...]

Remove one or more containers
[root@localhost ~]# docker ps -a -q
[root@localhost ~]#
```

Removed all of the containers made in this system