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DevOps Batch-2 (6ᵗʰ Semester)
Subject – Application Containerization

Experiment – *MAPPING VOLUME WITH DIFFERENT DOCKER IMAGES*

1. Create "*Apline*" container image using docker with name "*Container_1*" and mapped the volume "**MyVol**" with the "/mnt" directory of the *Alpine Image*.

$ docker run -it -v MyVol:/mnt --name Continer_1 alpine.

    a) Go to the directory "*/mnt*" inside the image of the alpine.

       $ cd mnt

    b) Make the two files "*Test1.txt*" and "*Test2.txt*" using following command.

       $ touch Test1.txt Test2.txt

    c) Then exit the container using the "*exit*" command.

    d) Check the details regarding container is running or not as well as time of execution.

       $ docker ps -a

```
VM_2 — root@ubuntu-xenial: / — ssh ‹ vagrant ssh — 129×40
root@ubuntu-xenial:/# docker run -it -v MyVol:/mnt --name Continer_1 alpine
/ # ls
bin    dev    etc    home   lib    media  mnt    opt    proc   root   run    sbin   srv    sys    tmp    usr    var
/ # cd mnt
/mnt # touch Test1.txt Test2.txt
/mnt # ls
Test1.txt  Test2.txt  test1.txt  test2.txt
/mnt # exit
root@ubuntu-xenial:/# docker ps -a
CONTAINER ID    IMAGE           COMMAND          CREATED           STATUS                         PORTS
    NAMES
dc3ac834c519    alpine          "/bin/sh"        11 minutes ago    Exited (0) About a minute ago
    Continer_1
7bf98156e549    alpine          "/bin/sh"        36 minutes ago    Exited (0) 36 minutes ago
    cocky_banach
9f5a654c8690    alpine          "/bin/sh"        37 minutes ago    Exited (0) 36 minutes ago
    nostalgic_lichterman
b48eb4fd273b    alpine          "/bin/sh"        41 minutes ago    Exited (0) 40 minutes ago
    admiring_banach
84f1fcac7655    alpine          "/bin/sh"        45 minutes ago    Exited (0) 42 minutes ago
    quirky_montalcini
282492d651f8    alpine          "/bin/sh"        45 minutes ago    Exited (0) 45 minutes ago
    wonderful_elgamal
0f9d1eca515e    alpine          "/bin/sh"        About an hour ago Exited (0) 45 minutes ago
    fervent_allen
root@ubuntu-xenial:/#
```

2. Create "*Apline*" container image using docker with name "*Container_2*" and mapped the volume "**MyVol**" with the "/mnt" directory of the *Alpine Image*.

$ docker run -it -v MyVol:/mnt --name Continer_2 alpine.

a) Go to the directory "*/mnt*" inside the image of the alpine.

   $ cd mnt

b) Now check the two files "*Test1.txt*" & "*Test2.txt*" by using the followingcommand.

   $ ls

c) You will observe that the files created in "*/mnt*" directory using the "*Container_1*" are visible here.

d) Then exit the container using the "*exit*" command.

e) Check the details regarding container is running or not as well as time of execution.

   $ docker ps -a

```
VM_2 — root@ubuntu-xenial: / — ssh ⋅ vagrant ssh — 129×40
[root@ubuntu-xenial:/# docker run -it -v MyVol:/mnt --name Continer_2 alpine
/ # ls
bin    dev    etc    home   lib    media  mnt    opt    proc   root   run    sbin   srv    sys    tmp    usr    var
/ # cd mnt
/mnt # ls
Test1.txt  Test2.txt  test1.txt  test2.txt
/mnt # exit
[root@ubuntu-xenial:/# docker ps -a
CONTAINER ID        IMAGE          COMMAND        CREATED            STATUS                      PORTS
  NAMES
eda3c3516551        alpine         "/bin/sh"      2 minutes ago      Exited (0) 6 seconds ago
  Continer_2
dc3ac834c519        alpine         "/bin/sh"      18 minutes ago     Exited (0) 7 minutes ago
  Continer_1
7bf98156e549        alpine         "/bin/sh"      42 minutes ago     Exited (0) 42 minutes ago
  cocky_banach
9f5a654c8690        alpine         "/bin/sh"      43 minutes ago     Exited (0) 43 minutes ago
  nostalgic_lichterman
b48eb4fd273b        alpine         "/bin/sh"      About an hour ago   Exited (0) About an hour ago
  admiring_banach
84f1fcac7655        alpine         "/bin/sh"      About an hour ago   Exited (0) About an hour ago
  quirky_montalcini
282492d651f8        alpine         "/bin/sh"      About an hour ago   Exited (0) About an hour ago
  wonderful_elgamal
0f9d1eca515e        alpine         "/bin/sh"      About an hour ago   Exited (0) About an hour ago
  fervent_allen
root@ubuntu-xenial:/#
```