Docker container cp → this command is used to copy contents/files from host server to container or container to host server

```
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
[root@ip-172-31-1-76 ~]# ls
amit.txt  anaconda-ks.cfg  index.html  original-ks.cfg
[root@ip-172-31-1-76 ~]# cat amit.txt
This is Docker practice session

[root@ip-172-31-1-76 ~]# docker run -itd centos
a6efaa4394face18ee5e8616c99eaa56f6d5d68541edf2373bce4085cd947725
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
a6efaa4394fa        centos              "/bin/bash"         5 seconds ago       Up 4 seconds
[root@ip-172-31-1-76 ~]# docker cp amit.txt a6efaa4394fa:/tmp/
[root@ip-172-31-1-76 ~]# #above command copied amit.txt file from host server to container
[root@ip-172-31-1-76 ~]# docker exec -it a6efaa4394fa bash
[root@a6efaa4394fa /]# cd /tmp
[root@a6efaa4394fa tmp]# ls
amit.txt  ks-script-eC059Y  yum.log
[root@a6efaa4394fa tmp]#
```

Similarly, we can do vice-versa as well, means we can copy from container to our host machine: -

```
exit
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
a6efaa4394fa        centos              "/bin/bash"         4 minutes ago       Up 4 minutes
[root@ip-172-31-1-76 ~]# rm -rf amit.txt
[root@ip-172-31-1-76 ~]# ls
anaconda-ks.cfg  index.html  original-ks.cfg
[root@ip-172-31-1-76 ~]# docker cp a6efaa4394fa:/tmp/amit.txt .
[root@ip-172-31-1-76 ~]# ls
amit.txt  anaconda-ks.cfg  index.html  original-ks.cfg
[root@ip-172-31-1-76 ~]# cat amit.txt
This is Docker practice session

[root@ip-172-31-1-76 ~]#
```

Docker export → this command will save the container as backup file in our host machine, we can export any container when needed

```
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
a6efaa4394fa        centos              "/bin/bash"         21 minutes ago      Up 21 minutes
[root@ip-172-31-1-76 ~]# ls
amit.txt  anaconda-ks.cfg  index.html  original-ks.cfg
[root@ip-172-31-1-76 ~]# docker export a6efaa4394fa > centos.tar
[root@ip-172-31-1-76 ~]# ls
amit.txt  anaconda-ks.cfg  centos.tar  index.html  original-ks.cfg
[root@ip-172-31-1-76 ~]#
```

Docker container kill → this will stop the container and we can start is as well, it is similar to docker stop but in docker stop we can use when container is working fine, and we need to stop but if container gets hung and we need to restart it then first we can kill it and then start it

```
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE             COMMAND            CREATED           STATUS                 PORTS
a6efaa4394fa        centos            "/bin/bash"        27 minutes ago    Up 27 seconds
[root@ip-172-31-1-76 ~]# docker kill a6efaa4394fa
a6efaa4394fa
[root@ip-172-31-1-76 ~]# docker ps -a
CONTAINER ID        IMAGE             COMMAND            CREATED           STATUS
a6efaa4394fa        centos            "/bin/bash"        28 minutes ago    Exited (137) 3 seconds ago
[root@ip-172-31-1-76 ~]# docker start a6efaa4394fa
a6efaa4394fa
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE             COMMAND            CREATED           STATUS                 PORTS
a6efaa4394fa        centos            "/bin/bash"        29 minutes ago    Up 3 seconds
[root@ip-172-31-1-76 ~]#
```

docker run –rm -itd ubuntu

```
[root@ip-172-31-28-41 ~]# docker ps
CONTAINER ID        IMAGE             COMMAND            CREATED           STATUS
[root@ip-172-31-28-41 ~]# docker run --rm -itd ubuntu
3aa7e451d109922889bdb2d26bf1624c109fcc5cc4a2c913ebab8764e3835a45
[root@ip-172-31-28-41 ~]# docker ps
CONTAINER ID        IMAGE             COMMAND            CREATED           STATUS
3aa7e451d109       ubuntu            "/bin/bash"        2 seconds ago     Up 1 second
[root@ip-172-31-28-41 ~]# docker stop 3aa7e451d109
3aa7e451d109
[root@ip-172-31-28-41 ~]# docker ps -a
CONTAINER ID        IMAGE             COMMAND            CREATED           STATUS
[root@ip-172-31-28-41 ~]#
```