docker container logs cntnr_id → this command will give the logs of the container

```
[root@ip-172-31-1-76 ~]#
[root@ip-172-31-1-76 ~]# docker run -itd -P tomcat
067fe0d71d8c2b5d50269bee7918dd68b31c43d6cc21e2416201cf7cd1864f40
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE          COMMAND            CREATED         STATUS            PORTS
067fe0d71d8c        tomcat         "catalina.sh run"  5 seconds ago   Up 4 seconds      0.0.0.0:32776->8080/tcp
a6efaa4394fa        centos         "/bin/bash"        38 minutes ago  Up 8 minutes
[root@ip-172-31-1-76 ~]# docker logs --follow 067fe0d71d8c
Using CATALINA_BASE:   /usr/local/tomcat
Using CATALINA_HOME:   /usr/local/tomcat
Using CATALINA_TMPDIR: /usr/local/tomcat/temp
Using JRE_HOME:        /usr/local/openjdk-8
Using CLASSPATH:       /usr/local/tomcat/bin/bootstrap.jar:/usr/local/tomcat/bin/tomcat-juli.jar
11-Jun-2019 19:10:06.202 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version:   Apache Tom
11-Jun-2019 19:10:06.210 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server built:     May 4 2019
11-Jun-2019 19:10:06.210 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server number:    8.5.41.0
11-Jun-2019 19:10:06.210 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Name:          Linux
11-Jun-2019 19:10:06.210 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Version:       3.10.0-862
11-Jun-2019 19:10:06.210 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Architecture:     amd64
```

docker container logs --tail 10 container_id → this command will give last 10 lines of logs

docker port container_id → this command will give us the port mapping of the mentioned container

```
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE          COMMAND            CREATED         STATUS            PORTS
067fe0d71d8c        tomcat         "catalina.sh run"  7 minutes ago   Up 7 minutes      0.0.0.0:32776->8080/tcp
a6efaa4394fa        centos         "/bin/bash"        45 minutes ago  Up 16 minutes
[root@ip-172-31-1-76 ~]# docker port 067fe0d71d8c
8080/tcp -> 0.0.0.0:32776
[root@ip-172-31-1-76 ~]#
```

Docker container prune → this command will remove all stopped container from container list

```
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE          COMMAND            CREATED            STATUS                       PORTS
067fe0d71d8c        tomcat         "catalina.sh run"  12 minutes ago     Up 12 minutes                0.0.0.0:32776->8080/tcp
a6efaa4394fa        centos         "/bin/bash"        About an hour ago  Up 21 minutes
[root@ip-172-31-1-76 ~]# docker ps -a
CONTAINER ID        IMAGE          COMMAND            CREATED            STATUS                       PORTS
5b1545ef922d        tomcat         "catalina.sh run"  About a minute ago Exited (130) 27 seconds ago
604e05806e5c        tomcat         "catalina.sh run"  2 minutes ago      Exited (130) About a minute ago
067fe0d71d8c        tomcat         "catalina.sh run"  12 minutes ago     Up 12 minutes                0.0.0.0:327
a6efaa4394fa        centos         "/bin/bash"        About an hour ago  Up 21 minutes
[root@ip-172-31-1-76 ~]# docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
5b1545ef922d8a0ab7b9e287439dc22e7bfc0205b71d0e6b4c90164f59313d79
604e05806e5c2d502abb29de15ea7f2e809349f62a0ed850cf0298ddc7715959

Total reclaimed space: 16.8kB
[root@ip-172-31-1-76 ~]# docker ps -a
CONTAINER ID        IMAGE          COMMAND            CREATED            STATUS                       PORTS
067fe0d71d8c        tomcat         "catalina.sh run"  12 minutes ago     Up 12 minutes                0.0.0.0:32776->8080/tcp
a6efaa4394fa        centos         "/bin/bash"        About an hour ago  Up 21 minutes
[root@ip-172-31-1-76 ~]#
```

docker run --restart=always -it ubuntu /bin/bash

```
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE            COMMAND           CREATED           STATUS
[root@ip-172-31-1-76 ~]# docker run --restart=always -itd ubuntu bash
14036be71fa06d5b14de05ea59f59c5b61d3ca53311c6a6b0e0db442e3c3ba36
[root@ip-172-31-1-76 ~]# docker ps
CONTAINER ID        IMAGE            COMMAND           CREATED           STATUS
14036be71fa0        ubuntu           "bash"            6 seconds ago     Up 5 seconds
[root@ip-172-31-1-76 ~]#
```

● **no: This does not start the container if it dies**

● **on-failure: This restarts the container if it fails with nonzero exit code**

● **always: This always restarts the container without worrying about**

the return code.

```
[root@ip-172-31-28-41 ~]# docker ps
CONTAINER ID        IMAGE            COMMAND           CREATED           STATUS              PORTS
ebdf08cf6d08        ubuntu           "/bin/bash"       6 seconds ago     Up 2 seconds
[root@ip-172-31-28-41 ~]# docker run -it ubuntu
root@96c1db7496c8:/# # See here i ran the same command but only ignored restart=always
root@96c1db7496c8:/# #so as we had seen earlier when we use the exit command
root@96c1db7496c8:/# #and -d is not used to run that container, then container immediately dies
root@96c1db7496c8:/# #so if i use exit here the container will stop but this not happened in earlier case
root@96c1db7496c8:/# exit
exit
[root@ip-172-31-28-41 ~]# docker ps
CONTAINER ID        IMAGE            COMMAND           CREATED           STATUS              PORTS
ebdf08cf6d08        ubuntu           "/bin/bash"       About a minute ago Up About a minute
[root@ip-172-31-28-41 ~]# docker ps -a
CONTAINER ID        IMAGE            COMMAND           CREATED           STATUS              PORTS
96c1db7496c8        ubuntu           "/bin/bash"       About a minute ago Exited (0) 6 seconds ago
ebdf08cf6d08        ubuntu           "/bin/bash"       2 minutes ago     Up About a minute
o
[root@ip-172-31-28-41 ~]#
```

docker run --restart=on-failure:3 -d -i -t fedora /bin/bash

The preceding command will only restart the container three times, if any failure occurs.