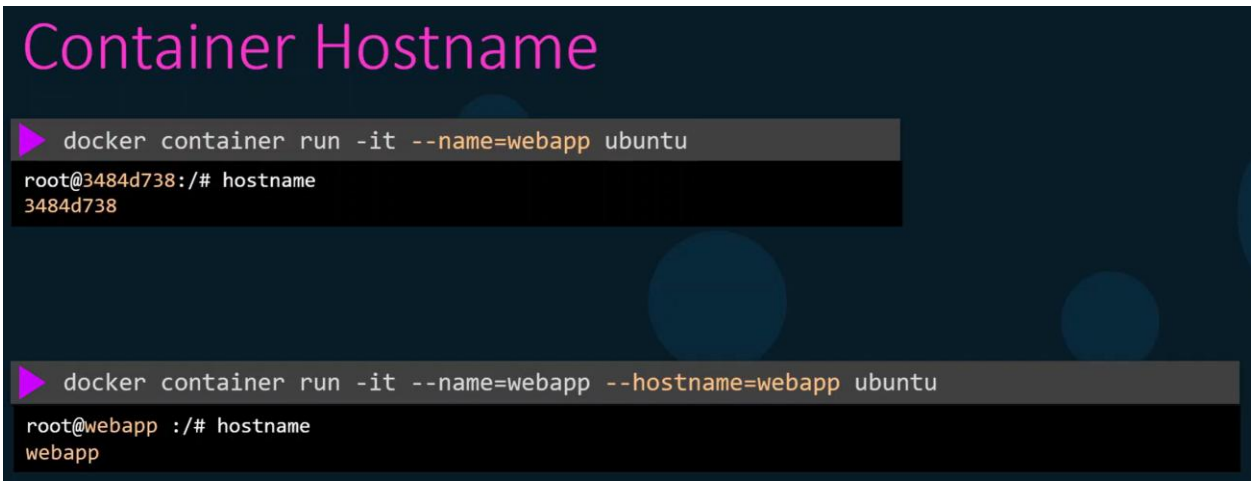
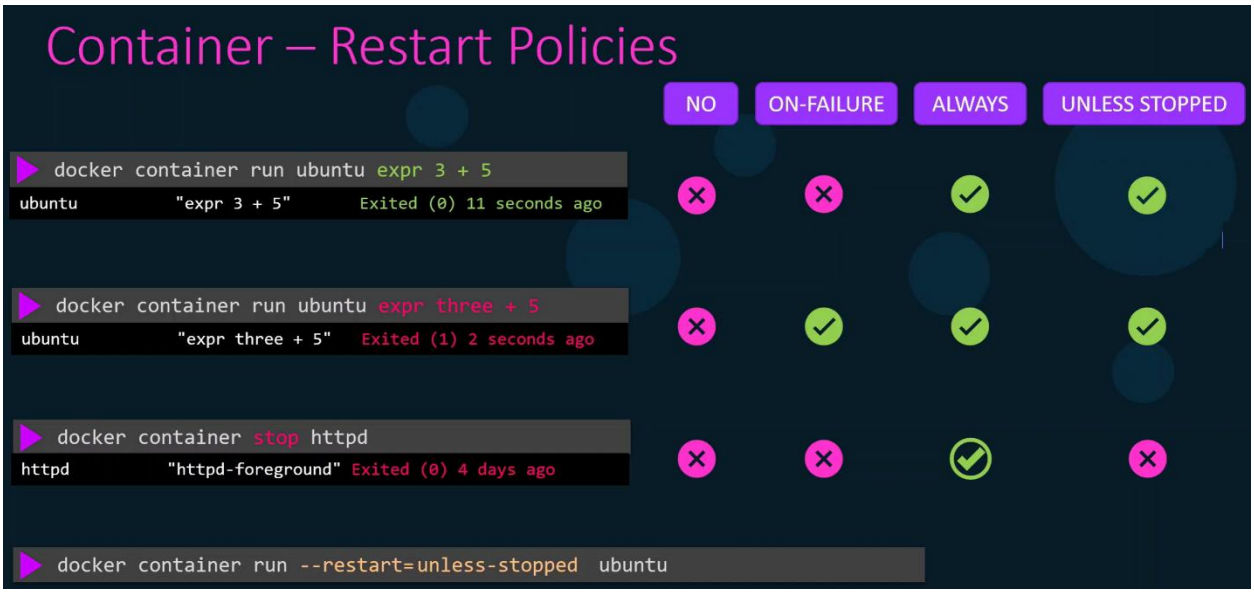
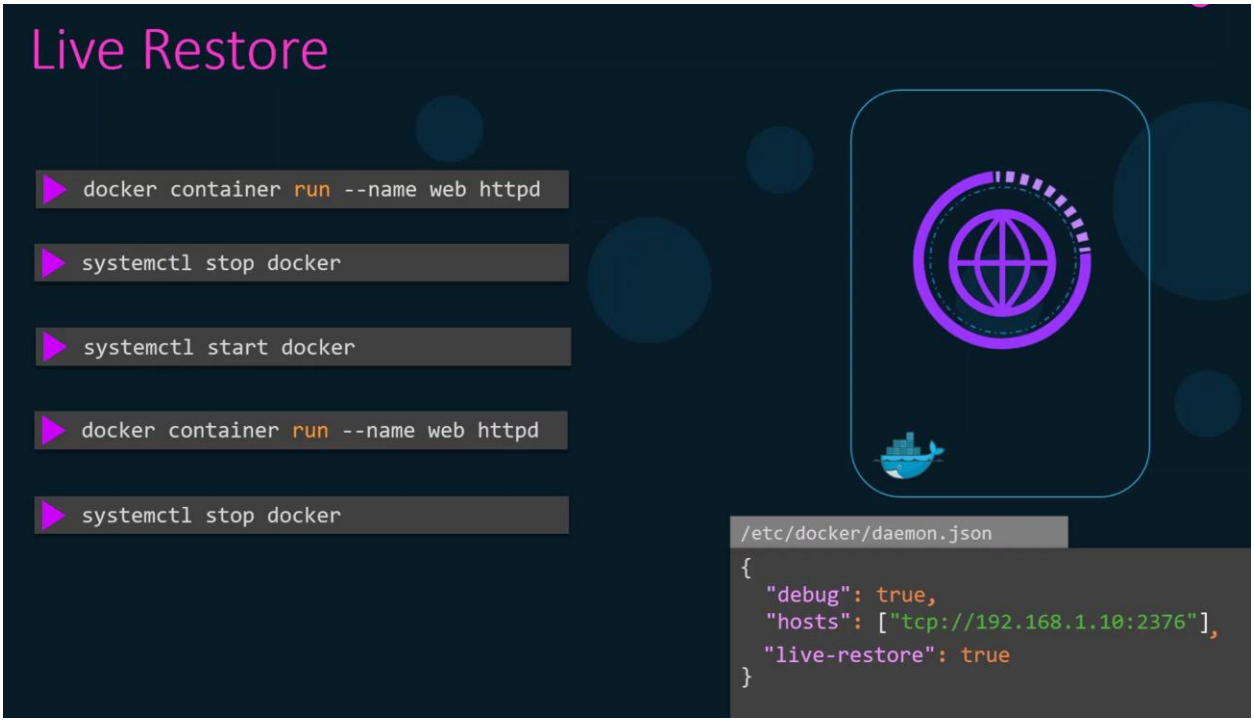
Set container host name

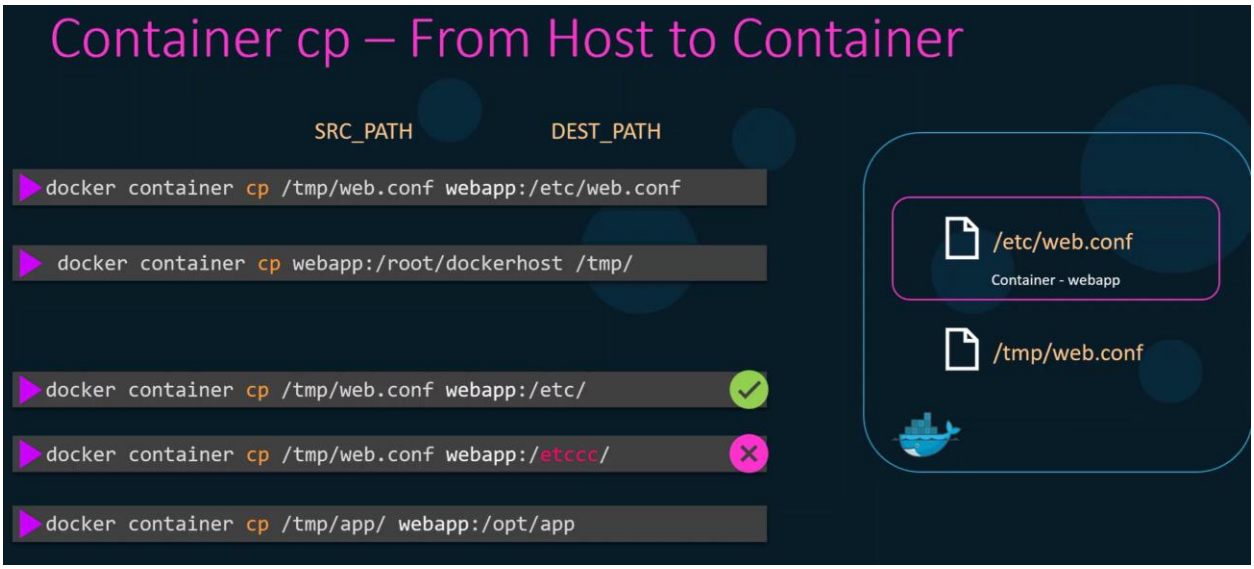


Restart policy

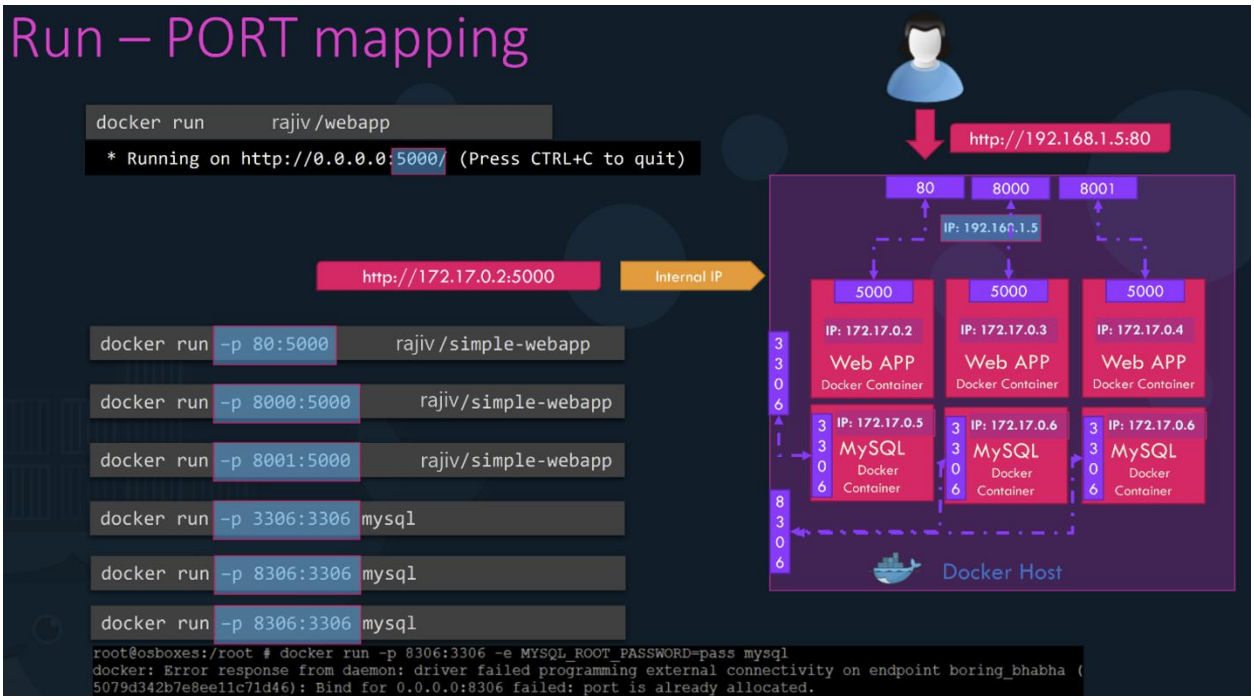


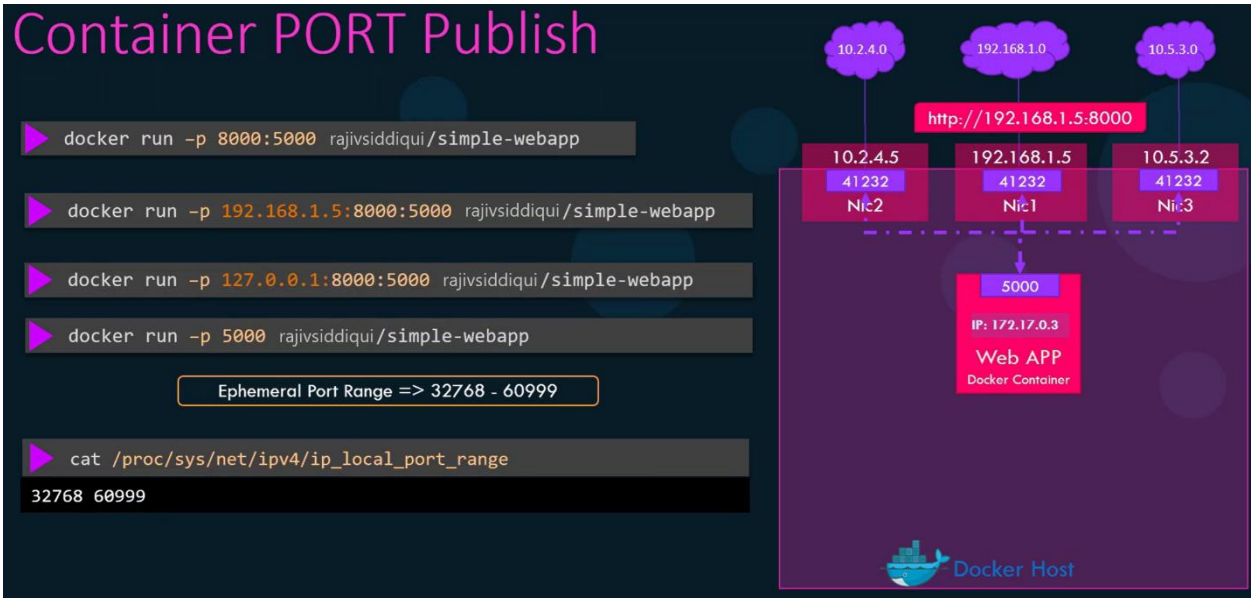


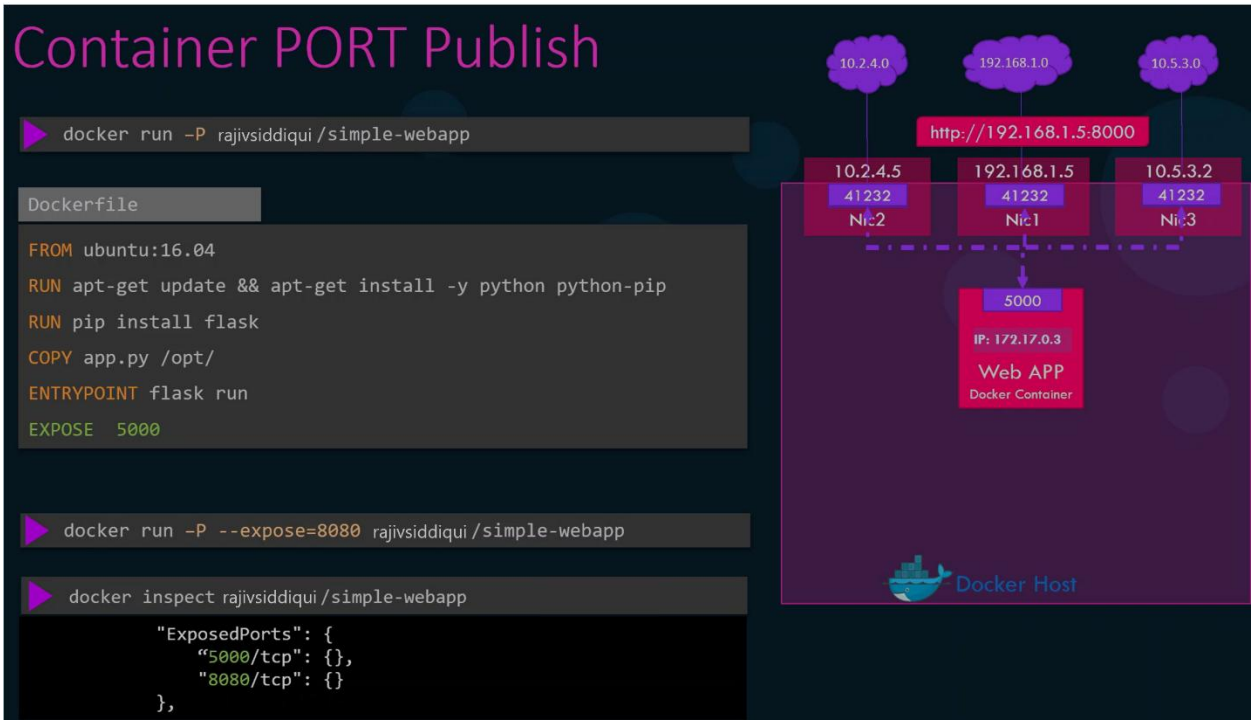
Copying content to the container

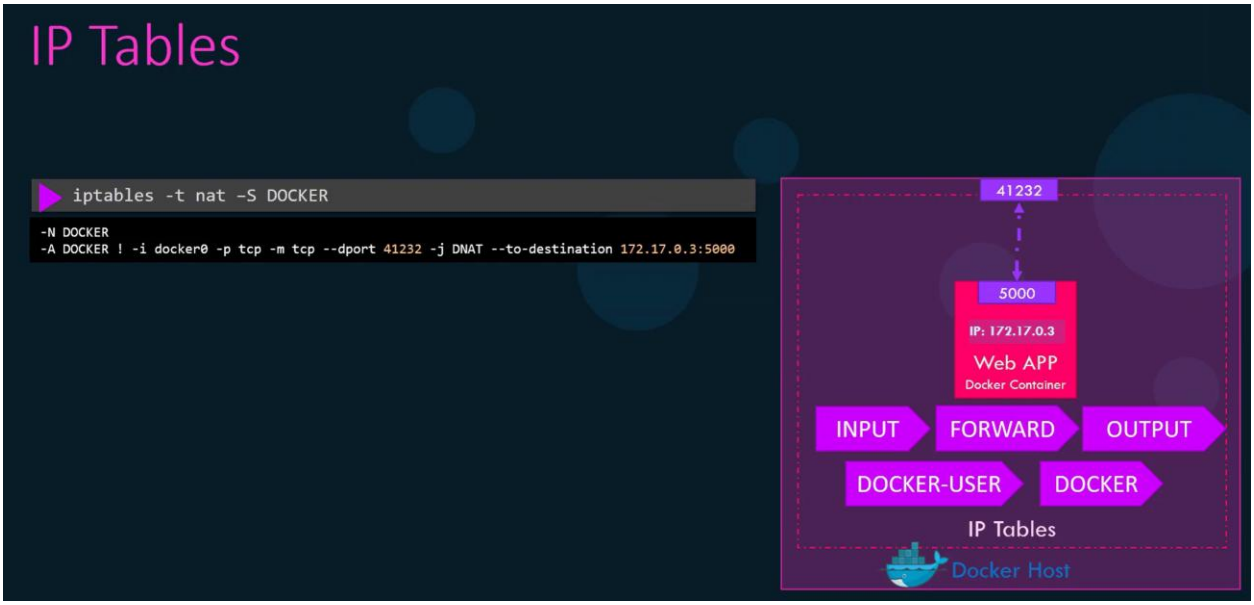


Publishing port









Lab:

when stop the container it will automatically delete the container

```
#docker container run -itd --name=rajiv --rm ubuntu
#docker container ls -l
#docker container stop rajiv
#docker container ls -l
```

```
rajiv@server-A://home/rajiv$ docker container run -itd --name=rajiv --rm ubuntu
a82182c85958dd1dafc20b821414adea02a60eb930a05cf6c57ea8036e41b586
rajiv@server-A://home/rajiv$ docker container ls -l
CONTAINER ID   IMAGE     COMMAND       CREATED          STATUS          PORTS     NAMES
a82182c85958   ubuntu    "/bin/bash"   12 seconds ago   Up 10 seconds             rajiv
rajiv@server-A://home/rajiv$ docker container stop rajiv
rajiv
rajiv@server-A://home/rajiv$ docker container ls -l
CONTAINER ID   IMAGE     COMMAND              CREATED          STATUS                              PORTS     NAMES
e02e7b1eda27   httpd     "httpd-foreground"   23 minutes ago   Exited (0) About a minute ago               zealous_hertz
```

Set the hostname

```
#docker container run -itd --name=rajiv --hostname=siddiqui --rm ubuntu
#docker container ls -l
#docker container exec -it rajiv hostname
```

```
rajiv@server-A: //home/rajiv
rajiv@server-A://home/rajiv$ docker container run -itd --name=rajiv --hostname=siddiqui --rm ubuntu
fdac5e858a69e801f92f5e824f47c8ae6f551c8de87e4aed0cb8a5cdff53c166
rajiv@server-A://home/rajiv$ docker container ls -l
CONTAINER ID   IMAGE     COMMAND       CREATED         STATUS         PORTS     NAMES
fdac5e858a69   ubuntu    "/bin/bash"   9 seconds ago   Up 8 seconds             rajiv
rajiv@server-A://home/rajiv$ docker container exec -it rajiv hostname
siddiqui
rajiv@server-A://home/rajiv$
```

restart policy=no

```
#docker container run -itd --name=case1 --restart=no ubuntu
#docker container ls -l
#docker container stop case1
#docker container ls -l
```

```
rajiv@server-A: //home/rajiv
rajiv@server-A://home/rajiv$ docker container run -itd --name=case1 --restart=no ubuntu
043cc96e621645866a2ba3bb19062c87c351c6cfbd595c79336ad2f955559b12
rajiv@server-A://home/rajiv$ docker container ls -l
CONTAINER ID   IMAGE     COMMAND       CREATED         STATUS         PORTS     NAMES
043cc96e6216   ubuntu    "/bin/bash"   7 seconds ago   Up 7 seconds             case1
rajiv@server-A://home/rajiv$ docker container stop case1
case1
rajiv@server-A://home/rajiv$ docker container ls -l
CONTAINER ID   IMAGE     COMMAND       CREATED          STATUS                       PORTS     NAMES
043cc96e6216   ubuntu    "/bin/bash"   57 seconds ago   Exited (137) 25 seconds ago             case1
rajiv@server-A://home/rajiv$
```

restart policy=on-failure

```
#docker container run -itd --name=case2 --restart=on-failure ubuntu
#docker container ls -l
#docker container top case2
#sudo kill -9 5777
#docker container ls -l
```

```
rajiv@server-A: //home/rajiv
rajiv@server-A://home/rajiv$ docker container run -itd --name=case2 --restart=on-failure ubuntu
035cbf63a06e123dfa7dea4abed318b83cb3fe5cbec0b54be5f6b9de121eae4e
rajiv@server-A://home/rajiv$ docker container ls -l
CONTAINER ID   IMAGE     COMMAND       CREATED         STATUS         PORTS     NAMES
035cbf63a06e   ubuntu    "/bin/bash"   7 seconds ago   Up 6 seconds             case2
rajiv@server-A://home/rajiv$ docker container top case2
UID                 PID                 PPID                C                   STIME               TTY                 TIME                CMD
root                5777                5757                0                   12:39               pts/0               00:00:00            /bin/bash
rajiv@server-A://home/rajiv$ kill -9 5777
-bash: kill: (5777) - Operation not permitted
rajiv@server-A://home/rajiv$ sudo kill -9 5777
rajiv@server-A://home/rajiv$ docker container ls -l
CONTAINER ID   IMAGE     COMMAND       CREATED              STATUS         PORTS     NAMES
035cbf63a06e   ubuntu    "/bin/bash"   About a minute ago   Up 4 seconds             case2
rajiv@server-A://home/rajiv$
```

restart policy=always

```
#docker container run -itd --name=case3 --restart=always ubuntu
#docker container ls -l
#docker container stop case3
#docker container ls -l
#sudo systemctl restart docker
#docker container ls -l
```

```
rajiv@server-A: //home/rajiv
rajiv@server-A://home/rajiv$ docker container run -itd --name=case3 --restart=always ubuntu
d3b76baf39fb487eec014241f7388532a214e27fa6b0a7a9c5f9930d3fc89711
rajiv@server-A://home/rajiv$ docker container ls -l
CONTAINER ID   IMAGE     COMMAND       CREATED         STATUS         PORTS     NAMES
d3b76baf39fb   ubuntu    "/bin/bash"   7 seconds ago   Up 5 seconds             case3
rajiv@server-A://home/rajiv$ docker container stop case3
case3
rajiv@server-A://home/rajiv$ docker container ls -l
CONTAINER ID   IMAGE     COMMAND       CREATED          STATUS                       PORTS     NAMES
d3b76baf39fb   ubuntu    "/bin/bash"   56 seconds ago   Exited (137) 3 seconds ago             case3
rajiv@server-A://home/rajiv$ sudo systemctl restart docker
rajiv@server-A://home/rajiv$ docker container ls -l
CONTAINER ID   IMAGE     COMMAND       CREATED              STATUS         PORTS     NAMES
d3b76baf39fb   ubuntu    "/bin/bash"   About a minute ago   Up 3 seconds             case3
rajiv@server-A://home/rajiv$
```

restart policy=unless-stopped

```
[root@dockercentos ~]# docker container run -itd --name=casefour --restart=unless-stopped ubuntu
74b0a7c74cc96675d3e68f5f8c8e655541bc45e48193545f5634069deb3ef694
[root@dockercentos ~]#
[root@dockercentos ~]# docker container ls -l
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
  NAMES
74b0a7c74cc9        ubuntu              "/bin/bash"         10 seconds ago      Up 9 seconds
  casefour
[root@dockercentos ~]#
[root@dockercentos ~]# docker container stop casefour
casefour
[root@dockercentos ~]# docker container ls -l
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS                     PORTS
        NAMES
74b0a7c74cc9        ubuntu              "/bin/bash"         24 seconds ago      Exited (0) 2 seconds ago
         casefour
[root@dockercentos ~]#
[root@dockercentos ~]# systemctl restart docker
[root@dockercentos ~]# docker container ls -l
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS                      PORTS
         NAMES
74b0a7c74cc9        ubuntu              "/bin/bash"         35 seconds ago      Exited (0) 13 seconds ago
          casefour
[root@dockercentos ~]#
```

```
[root@dockercentos ~]#
[root@dockercentos ~]# docker system events --since 60m
2020-05-04T08:38:43.747364807Z network connect cf10938f5edf77fc1626fdd136aec30114becc02b22b48008d1d6fde350a36b9 (cont
iner=2daf7d05975da65dd6c21c49447c5a032fb8a57854ee1686333544e61298e740, name=bridge, type=bridge)
2020-05-04T08:38:43.976133052Z container start 2daf7d05975da65dd6c21c49447c5a032fb8a57854ee1686333544e61298e740 (imag
=ubuntu, name=casethree)
^C
[root@dockercentos ~]# docker container start casefour
casefour
[root@dockercentos ~]#
[root@dockercentos ~]#
[root@dockercentos ~]# docker system events --since 60m
2020-05-04T08:38:43.747364807Z network connect cf10938f5edf77fc1626fdd136aec30114becc02b22b48008d1d6fde350a36b9 (con
iner=2daf7d05975da65dd6c21c49447c5a032fb8a57854ee1686333544e61298e740, name=bridge, type=bridge)
2020-05-04T08:38:43.976133052Z container start 2daf7d05975da65dd6c21c49447c5a032fb8a57854ee1686333544e61298e740 (ima
=ubuntu, name=casethree)
2020-05-04T08:39:43.633361765Z network connect cf10938f5edf77fc1626fdd136aec30114becc02b22b48008d1d6fde350a36b9 (con
iner=74b0a7c74cc96675d3e68f5f8c8e655541bc45e48193545f5634069deb3ef694, name=bridge, type=bridge)
2020-05-04T08:39:43.890119341Z container start 74b0a7c74cc96675d3e68f5f8c8e655541bc45e48193545f5634069deb3ef694 (imag
=ubuntu, name=casefour)
^C
[root@dockercentos ~]# cl
```

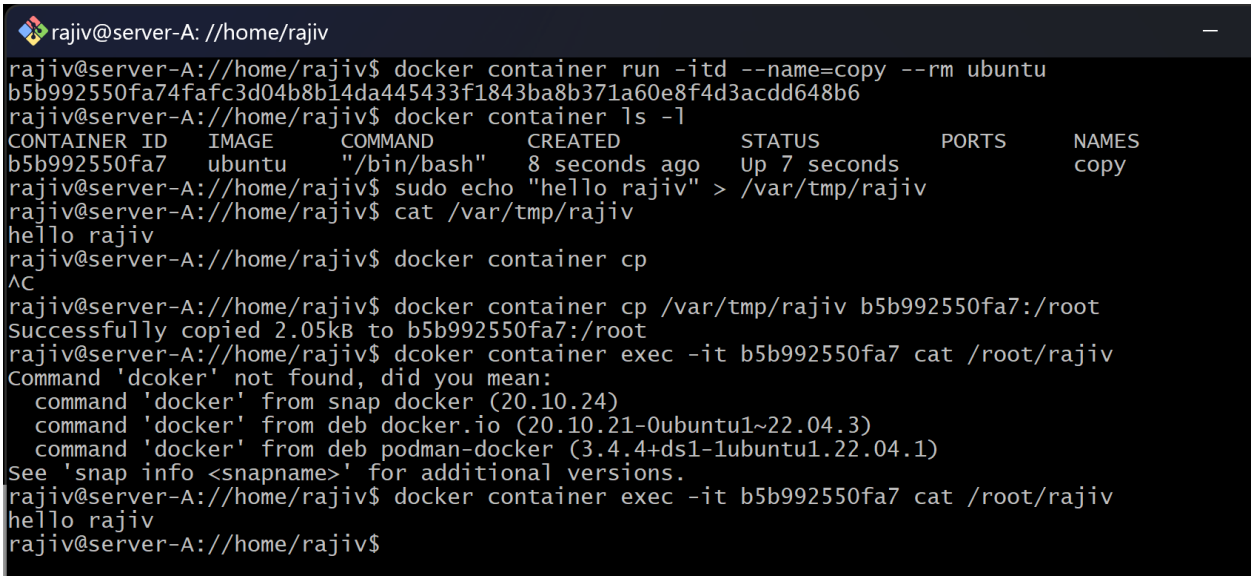
Copy file
Syntax: docker container cp <source> <destination>

copy from my pc to docker container

```
#docker container run -itd --name=copy --rm ubuntu
#docker container ls -l
#sudo echo "hello rajiv" > /var/tmp/rajiv
#cat /var/tmp/rajiv /var/tmp/rajiv
#docker container cp /var/tmp/rajiv b5b992550fa7:/root
#docker container exec -it b5b992550fa7 cat /root/rajiv
```

copy from docker container my pc

```
#docker container cp b5b992550fa7:/root/file1.txt /home/rajiv/
```



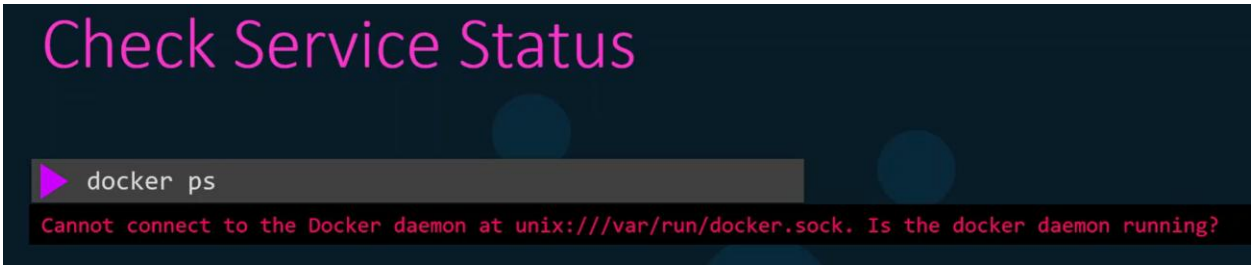
copy from docker container my pc

```
Random port select
#docker container run -itd -P --name=case1 httpd

Select any specific port for example 82 port
#docker container run -itd -p82:80 --name=case2 httpd
```

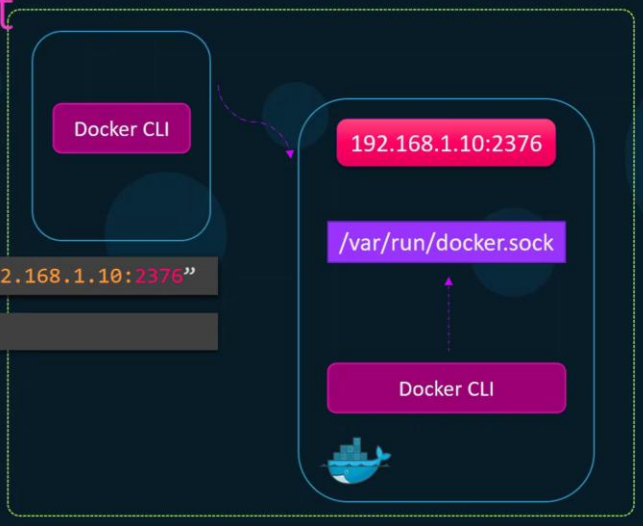
Port select in docker container

```
[root@dockercentos ~]# docker container run -itd --name=case1 httpd
fcb147271e0650a41658a1ff031fa9d438c3d28a39732df1ccbd8eb740aaf9f2
[root@dockercentos ~]# docker container ls -l
CONTAINER ID        IMAGE               COMMAND              CREATED             STATUS              PORTS
   NAMES
fcb147271e06        httpd               "httpd-foreground"   8 seconds ago       Up 7 seconds        80/tcp
   case1
[root@dockercentos ~]#
[root@dockercentos ~]# docker container run -itd -P --name=case2 httpd
69786817fc1da070c49b98af181039840d0f50e26c33efe22e38c384edeca365
[root@dockercentos ~]#
[root@dockercentos ~]# docker container ls -l
CONTAINER ID        IMAGE               COMMAND              CREATED             STATUS              PORTS
       NAMES
69786817fc1d        httpd               "httpd-foreground"   7 seconds ago       Up 6 seconds        0.0.0.0:32768->
/tcp   case2
[root@dockercentos ~]#
[root@dockercentos ~]# docker container run -itd --name=case3 -p 82:80 httpd
ef08a4146026e1ef6904033778945b11a6f3792f8c570b0ebbe648abd51aa312
[root@dockercentos ~]#
[root@dockercentos ~]# docker container ls -l
CONTAINER ID        IMAGE               COMMAND              CREATED             STATUS              PORTS
    NAMES
ef08a4146026        httpd               "httpd-foreground"   11 seconds ago      Up 9 seconds        0.0.0.0:82->80/tc
p   case3
[root@dockercentos ~]#
[root@dockercentos ~]# docker container restart case2
case2
[root@dockercentos ~]#
```

Troubleshooting Docker Daemon



Check Docker Host




```
export DOCKER_HOST="tcp://192.168.1.10:2376"
docker ps
```

2375	Un-encrypted
2376	Encrypted

```
systemctl start docker
```

```
systemctl status docker
```

```
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: inactive (dead) since Sat 2020-10-24 07:42:08 UTC; 21s ago
     Docs: https://docs.docker.com
  Process: 4197 ExecStart=/usr/bin/dockerd -H fd:// -H tcp://0.0.0.0 --containerd=/run/containerd/containerd.sock
(code=exited, Main PID: 4197 (code=exited, status=0/SUCCESS)
```

View Logs

```
journalctl -u docker.service
```

```
-- Logs begin at Wed 2020-10-21 04:05:39 UTC, end at Sat 2020-10-24 07:41:39 UTC. --
Oct 21 04:05:42 ubuntu-xenial systemd[1]: Starting Docker Application Container Engine...
Oct 21 04:05:42 time="2020-10-21T04:05:42.565473329Z" level=info msg="parsed scheme: \"unix\"" mod
Oct 21 04:05:42 time="2020-10-21T04:05:42.565496428Z" level=info msg="scheme \"unix\" not register
Oct 21 04:05:42 time="2020-10-21T04:05:42.565554302Z" level=info msg="ccResolverWrapper: sending u
Oct 21 04:05:42 time="2020-10-21T04:05:42.565673967Z" level=info msg="ClientConn switching balance
Oct 21 04:05:42 time="2020-10-21T04:05:42.570967241Z" level=info msg="parsed scheme: \"unix\"" mod
Oct 21 04:05:42 time="2020-10-21T04:05:42.570982918Z" level=info msg="scheme \"unix\" not register
Oct 21 04:05:42 time="2020-10-21T04:05:42.571027208Z" level=info msg="ccResolverWrapper: sending u
Oct 21 04:05:42 time="2020-10-21T04:05:42.571037442Z" level=info msg="ClientConn switching balance
Oct 21 04:05:42 time="2020-10-21T04:05:42.629609680Z" level=info msg="[graphdriver] using prior st
Oct 21 04:05:42 time="2020-10-21T04:05:42.847722164Z" level=warning msg="Your kernel does not supp
Oct 21 04:05:42 time="2020-10-21T04:05:42.847808687Z" level=warning msg="Your kernel does not supp
Oct 21 04:05:42 time="2020-10-21T04:05:42.847816072Z" level=warning msg="Your kernel does not supp
Oct 21 04:05:42 time="2020-10-21T04:05:42.848125012Z" level=info msg="Loading containers: start."
Oct 21 04:05:43 time="2020-10-21T04:05:43.610553801Z" level=info msg="Removing stale sandbox ae1f6
Oct 21 04:05:43 time="2020-10-21T04:05:43.618004459Z" level=warning msg="Error (Unable to complete
```

Daemon Configuration File

/etc/docker/daemon.json

```
{
  "debug": true,
  "hosts": ["tcp://192.168.1.10:2376"]
  "tls": true,
  "tlscert": "/var/docker/server.pem",
  "tlskey":  "/var/docker/serverkey.pem"
}
```

unable to configure the Docker daemon with file /etc/docker/daemon.json: the following directives are specified both as a flag and in the configuration file: debug: (from flag: true, from file: false)

Free Disk Space on Host

```
df -h
```

```
Filesystem      Size  Used Avail Use% Mounted on
dev             364M     0  364M   0% /dev
run             369M  340K  369M   1% /run
/dev/sda1        19G  14.7G  15M  99% /
tmpfs           369M     0  369M   0% /dev/shm
tmpfs           369M     0  369M   0% /sys/fs/cgroup
tmpfs           369M  4.0K  369M   1% /tmp
tmpfs            74M     0   74M   0% /run/user/0
```

```
docker container prune
```

```
docker image prune
```

Enable docker debug mode

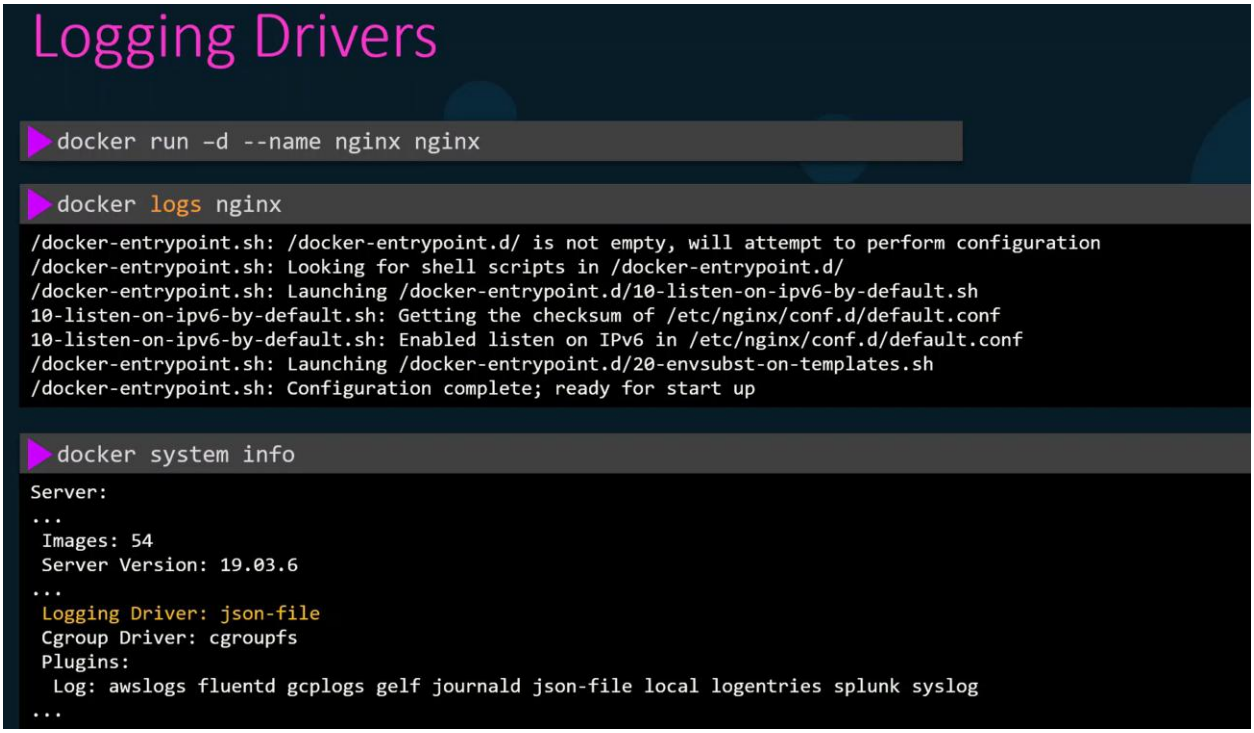
```
ubuntu@ip-172-31-80-44:~$ system docker info
Command 'system' not found, did you mean:
  command 'system3' from deb simh (3.8.1-6.1)
  command 'systemd' from deb systemd (249.11-0ubuntu3.9)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-80-44:~$ docker system info
Client: Docker Engine - Community
 Version:    24.0.5
 Context:    default
 Debug Mode: false
 Plugins:
  buildx: Docker Buildx (Docker Inc.)
    Version:  v0.11.2
    Path:     /usr/libexec/docker/cli-plugins/docker-buildx
  compose: Docker Compose (Docker Inc.)
    Version:  v2.20.2
    Path:     /usr/libexec/docker/cli-plugins/docker-compose

Server:
ERROR: permission denied while trying to connect to the Docker
 unix /var/run/docker.sock: connect: permission denied
errors pretty printing info
ubuntu@ip-172-31-80-44:~$
```

#docker system info

```
#sudo vi /etc/docker/daemon.json
#sudo systemctl reload docker
#docker system info
```

Operating system	Location
Linux	Use the command journalctl -xu docker.service (or read /var/log/syslog or /var/log/messages, depending on your Linux Distribution)
macOS (dockerd logs)	~/Library/Containers/com.docker.docker/Data/log/vm/dockerd.log
macOS (containerd logs)	~/Library/Containers/com.docker.docker/Data/log/vm/containerd.log
Windows (WSL2) (dockerd logs)	%LOCALAPPDATA%\Docker\log\vm\dockerd.log
Windows (WSL2) (containerd logs)	%LOCALAPPDATA%\Docker\log\vm\containerd.log
Windows (Windows containers)	Logs are in the Windows Event Log

Logging Driver



Old docker log file location

```
docker ps
f3997637c0df        nginx        "/docker-entrypoint.…"   37 minutes ago      Up 37  nginx

cd /var/lib/docker/containers; ls
38781779e9aa15c190746784ba23d1ae237f03b58e0479286259e275d4c8820a
c5ab1dba9b51486e0e69386c137542be2e4315a56b4ee07c825e2d41c99f89b4
f3997637c0df66becf4dd4662d3c172bf16f916a3b9289b95f0994675102de17

cat f3997637c0df66becf4dd4662d3c172bf16f916a3b9289b95f0994675102de17.json
{"log":"/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform
configuration\n","stream":"stdout","time":"2020-10-25T05:59:43.832656488Z"}
{"log":"/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/\n","stream":"stdout","time":"2020-10-
25T05:59:43.832891838Z"}
{"log":"/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh\n","stream":"stdout","time":"20
25T05:59:43.833987067Z"}
{"log":"10-listen-on-ipv6-by-default.sh: Getting the checksum of /etc/nginx/conf.d/default.conf\n","stream":"stdout","time":"
25T05:59:43.83695198Z"}
{"log":"10-listen-on-ipv6-by-default.sh: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf\n","stream":"stdout","time"
10-25T05:59:43.84592186Z"}
{"log":"/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh\n","stream":"stdout","time":"2020-1
25T05:59:43.846117966Z"}
{"log":"/docker-entrypoint.sh: Configuration complete; ready for start up\n","stream":"stdout","time":"2020-10-
25T05:59:43.850840102Z"}
```

New docker log file location

```
root@server-A: /var/lib/docker/containers/4a02525989b204a68fefa1e5363ecb100a1a6627284ca68f12a1a4234a1dfc56
root@server-A:/var/lib/docker/containers# ll
total 20
drwx--x---  5 root root 4096 জুলাই      28 16:06 ./
drwx--x--- 13 root root 4096 জুলাই      28 12:54 ../
drwx--x---  4 root root 4096 জুলাই      28 16:06 4a02525989b204a68fefa1e5363ecb100a1a6627284ca68f12a1a4234a1dfc56/
drwx--x---  4 root root 4096 জুলাই      28 14:34 b5b992550fa74fafc3d04b8b14da445433f1843ba8b371a60e8f4d3acdd648b6/
drwx--x---  4 root root 4096 জুলাই      28 12:54 d3b76baf39fb487eec014241f7388532a214e27fa6b0a7a9c5f9930d3fc89711/
root@server-A:/var/lib/docker/containers# ccd 4a02525989b204a68fefa1e5363ecb100a1a6627284ca68f12a1a4234a1dfc56/
Command 'ccd' not found, did you mean:
  command 'cct' from deb proj-bin (8.2.1-1)
  command 'cdcd' from deb cdcd (0.6.6-13.1build2)
  command 'cccd' from deb cccd (0.3beta4-7.1build1)
  command 'bcd' from deb bsdgames (2.17-29)
  command 'ccr' from deb codecrypt (1.8-1build2)
  command 'cc' from deb gcc (4:11.2.0-1ubuntu1)
  command 'cc' from deb clang (1:14.0-55~exp2)
  command 'cc' from deb pentium-builder (0.21ubuntu1)
  command 'cc' from deb tcc (0.9.27+git20200814.62c30a4a-1)
  command 'ccl' from deb cclive (0.9.3-0.2build1)
  command 'mcd' from deb mtools (4.0.33-1+really4.0.32-1build1)
  command 'ccx' from deb calculix-ccx (2.17-3)
  command 'hcd' from deb hfsutils (3.2.6-15build2)
Try: apt install <deb name>
root@server-A:/var/lib/docker/containers# cd 4a02525989b204a68fefa1e5363ecb100a1a6627284ca68f12a1a4234a1dfc56/
root@server-A:/var/lib/docker/containers/4a02525989b204a68fefa1e5363ecb100a1a6627284ca68f12a1a4234a1dfc56# ll
total 44
drwx--x--- 4 root root 4096 জুলাই      28 16:06 ./
drwx--x--- 5 root root 4096 জুলাই      28 16:06 ../
-rw-r----- 1 root root  900 জুলাই      28 16:06 4a02525989b204a68fefa1e5363ecb100a1a6627284ca68f12a1a4234a1dfc56-json.log
drwx------ 2 root root 4096 জুলাই      28 16:06 checkpoints/
-rw------- 1 root root 2969 জুলাই      28 16:06 config.v2.json
-rw------- 1 root root 1432 জুলাই      28 16:06 hostconfig.json
-rw-r--r-- 1 root root   13 জুলাই      28 16:06 hostname
-rw-r--r-- 1 root root  174 জুলাই      28 16:06 hosts
drwx--x--- 2 root root 4096 জুলাই      28 16:06 mounts/
-rw-r--r-- 1 root root  797 জুলাই      28 16:06 resolv.conf
-rw-r--r-- 1 root root   71 জুলাই      28 16:06 resolv.conf.hash
root@server-A:/var/lib/docker/containers/4a02525989b204a68fefa1e5363ecb100a1a6627284ca68f12a1a4234a1dfc56# cat 4a02525989b204a68fefa1e5363
4ca68f12a1a4234a1dfc56-json.log
{"log":"AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 172.17.0.4. Set the 'ServerName' direc
to suppress this message\r\n","stream":"stdout","time":"2023-07-28T10:06:09.089392665Z"}
{"log":"AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 172.17.0.4. Set the 'ServerName' direc
to suppress this message\r\n","stream":"stdout","time":"2023-07-28T10:06:09.090949372Z"}
{"log":"[Fri Jul 28 10:06:09.092028 2023] [mpm_event:notice] [pid 1:tid 140697700677504] AH00489: Apache/2.4.57 (Unix) configured -- resum
ations\r\n","stream":"stdout","time":"2023-07-28T10:06:09.09237359Z"}
{"log":"[Fri Jul 28 10:06:09.092150 2023] [core:notice] [pid 1:tid 140697700677504] AH00094: Command line: 'httpd -D FOREGROUND'\r\n","stre
time":"2023-07-28T10:06:09.092382625Z"}
root@server-A:/var/lib/docker/containers/4a02525989b204a68fefa1e5363ecb100a1a6627284ca68f12a1a4234a1dfc56#
```

```
docker system info
```

```
Server:
...
 Images: 54
 Server Version: 19.03.6
...
 Logging Driver: json-file
 Cgroup Driver: cgroupfs
 Plugins:
  Log: awslogs fluentd gcplogs gelf journald json-file local
       logentries splunk syslog
...
```

/etc/docker/daemon.json

```
{
  "debug": true,
  "hosts": ["tcp://192.168.1.10:2376"]
  "tls": true,
  "tlscert": "/var/docker/server.pem",
  "tlskey":  "/var/docker/serverkey.pem",
 "log-driver":  "awslogs",
 "log-opt": {
     "awslogs-region": "us-east-1"
  }
}
```

```
export AWS_ACCESS_KEY_ID=<>
export AWS_SECRET_ACCESS_KEY=<>
export AWS_SESSION_TOKEN=<>
```

```
docker run -d --log-driver json-file nginx
```

```
docker container inspect nginx
```

```
[
    {
        "Id": "f3997637c0df66becf4dd4662d3c172bf16f916a3b9289b95f0994675102de17",
        "Created": "2020-10-25T05:59:43.543296741Z",
        "Path": "/docker-entrypoint.sh",
        ...
        "HostConfig": {
            "Binds": null,
            "ContainerIDFile": "",
            "LogConfig": {
                "Type": "json-file",
                "Config": {}
            },
```

```
docker container inspect -f '{{.HostConfig.LogConfig.Type}}' nginx
```

```
json-file
```

Demo – Logging Driver

```
root@ip-172-31-39-115:~
[root@workerone ~]# docker system info | grep -i "logging driver"
 Logging Driver: json-file
[root@workerone ~]#
[root@workerone ~]# docker container run -itd --name=testcontainer ubuntu
e9511b9bc3d466bdcbd6ff5de59c82253295d213d393e107c42dfd16b4cf276a
[root@workerone ~]#
[root@workerone ~]# docker container ls -l
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
  NAMES
e9511b9bc3d4        ubuntu              "/bin/bash"         4 seconds ago       Up 3 seconds
  testcontainer
[root@workerone ~]# docker container inspect e9511b9bc3d4
```

root@ip-172-31-39-115:~


```
            "Platform": "linux",
            "MountLabel": "",
            "ProcessLabel": "",
            "AppArmorProfile": "",
            "ExecIDs": null,
            "HostConfig": {
                "Binds": null,
                "ContainerIDFile": "",
                "LogConfig": {
                    "Type": "json-file",
                    "Config": {}
                },
                "NetworkMode": "default",
                "PortBindings": {},
                "RestartPolicy": {
                    "Name": "no",
                    "MaximumRetryCount": 0
                },
                "AutoRemove": false,
                "VolumeDriver": "",
                "VolumesFrom": null,
                "CapAdd": null,
                "CapDrop": null,
                "Capabilities": null,
                "Dns": [],
                "DnsOptions": [],
                "DnsSearch": [],
                "ExtraHosts": null,
                "GroupAdd": null,
                "IpcMode": "private",
                "Cgroup": "",
--More--
```


https://docs.docker.com/config/containers/logging/configure/

```
root@ip-172-31-39-115:~
[root@workerone ~]# docker system info | grep -i "logging driver"
 Logging Driver: json-file
[root@workerone ~]#
[root@workerone ~]# systemctl stop docker
[root@workerone ~]# vi /etc/docker/daemon.json
[root@workerone ~]#
[root@workerone ~]# systemctl start docker
[root@workerone ~]#
[root@workerone ~]# docker system info | grep -i "logging driver"
 Logging Driver: syslog
[root@workerone ~]#
[root@workerone ~]#
[root@workerone ~]# docker container run -itd --name=logtest --log-driver=journald ubuntu
3917c0f55e83f882f7c5357c78ea100fceef0c203436527b0c8c611c6798dcf7
[root@workerone ~]# docker container ls -l
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
  NAMES
3917c0f55e83        ubuntu              "/bin/bash"         4 seconds ago       Up 4 seconds
  logtest
[root@workerone ~]# docker container inspect 3917c0f55e83| more
```

```
root@server-A: /home/rajiv
        "HostsPath": "/var/lib/docker/containers/4a025
        "LogPath": "/var/lib/docker/containers/4a02525
4ca68f12a1a4234a1dfc56-json.log",
        "Name": "/testagain",
        "RestartCount": 0,
        "Driver": "overlay2",
        "Platform": "linux",
        "MountLabel": "",
        "ProcessLabel": "",
        "AppArmorProfile": "docker-default",
        "ExecIDs": null,
        "HostConfig": {
            "Binds": null,
            "ContainerIDFile": "",
            "LogConfig": {
                "Type": "json-file",
                "Config": {}
            },
            "NetworkMode": "default",
            "PortBindings": {},
            "RestartPolicy": {
                "Name": "no",
                "MaximumRetryCount": 0
            },
            "AutoRemove": false,
            "VolumeDriver": "",
            "VolumesFrom": null,
            "ConsoleSize": [
                31,
                104
            ],
            "CapAdd": null,
```