The Main Problem Of Tagging The Images; Is Where The Latest Version Point To.

So; To Solve The Problem:

Run Command: docker image tag image-name:target-tag image-name:latest

```
C:\Users\Tatweer>docker images
REPOSITORY
                                                                      TAG
                                                                                                                                                                                                        IMAGE ID
                                                                                                                                                                                                                                 CREATED
                                                                                                                                                                                                                                                             SIZE
                                                                                                                                                                                                                                                             480MB
                                                                                                                                                                                                        850d1f628e28
                                                                                                                                                                                                                                 20 seconds ago
react-app
react-app
                                                                                                                                                                                                        1fh32099h101
                                                                                                                                                                                                                                 5 days ago
                                                                                                                                                                                                                                                             489MB
                                                                                                                                                                                                                                    months ag
Jocker/desktop-kubernetes
registry.k8s.io/kube-apiserver
registry.k8s.io/kube-apiserver
registry.k8s.io/kube-controller-manager
registry.k8s.io/kube-proxy
registry.k8s.io/coredns/coredns
registry.k8s.io/etcd
registry.k8s.io/etcd
docker/desktop-vpnkit-controller
registry.k8s.io/pause
docker/desktop-storage-provisioner
                                                                      kubernetes-v1.30.5-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.11-1-debia
                                                                                                                                                                                                         60dd8dae2ad
                                                                      v1.30.5
                                                                                                                                                                                                        e9adc5c075a8
                                                                                                                                                                                                                                    months ago
                                                                     v1.30.5
v1.30.5
                                                                                                                                                                                                        38406042cf08
                                                                                                                                                                                                                                    months ago
months ago
                                                                                                                                                                                                                                                              111MB
                                                                                                                                                                                                        25903461e65c
                                                                                                                                                                                                                                                              62MB
                                                                                                                                                                                                        71161e05b9bb
c69fa2e9cbf5
                                                                                                                                                                                                                                                              84.7MB
                                                                                                                                                                                                                                    months ago
                                                                                                                                                                                                                                    months ago
                                                                                                                                                                                                        3861cfcd7c04
                                                                                                                                                                                                                                 11 months ago
                                                                                                                                                                                                                                                              149MB
                                                                      3.5.12-0
                                                                      dc331cb22850be0cdd97c84a9cfecaf44a1afb6e
                                                                                                                                                                                                        556098075b3d
e6f181688397
                                                                                                                                                                                                                                 20 months ago
                                                                                                                                                                                                                                    years ago
                                                                                                                                                                                                                                                              744kB
```

OR, we can change the target tag by using *image-id*

```
::\Users\Tatweer>docker image tag 850 react-app:latest
:\Users\Tatweer>dokcer images
dokcer' is not recognized as an internal or external command, perable program or batch file.
:\Users\Tatweer>docker images
REPOSITORY
                                                                                                                                                   IMAGE ID
850d1f628e28
                                                                                                                                                                      CREATED
react-app
                                                                                                                                                                      About a minute ago
About a minute ago
                                                                                                                                                                                                480MB
react-app
                                                                                                                                                                                                 480MB
                                                   latest
                                                                                                                                                    850d1f628e28
                                                                                                                                                    1fb32099b101
                                                                                                                                                                                                 480MB
                                                                                                                                                                       5 days ago
                                                                                                                                                                      2 months ago
docker/desktop-kubernetes
                                                   kubernetes-v1.30.5-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.11-1-debian
                                                                                                                                                    a60dd8dae2ad
                                                                                                                                                                                                 435MB
                                                                                                                                                    e9adc5c075a8
                                                                                                                                                                       4 months ago
registry.k8s.io/kube-apiserver
                                                                                                                                                                                                 117MB
                                                   v1.30.5
                                                                                                                                                                      4 months ago
egistry.k8s.io/kube-scheduler
                                                                                                                                                    25903461e650
                                                                                                                                                                                                 62MB
                                                                                                                                                                      4 months ago
registry.k8s.io/kube-controller-manager
registry.k8s.io/kube-proxy
                                                   v1.30.5
                                                                                                                                                    38406042cf08
                                                                                                                                                                                                 111MB
                                                                                                                                                    71161e05b9bb
                                                                                                                                                                       4 months ago
                                                   v1.30.5
                                                                                                                                                                                                84.7ME
registry.k8s.io/kube-proxy
registry.k8s.io/coredns/coredns
registry.k8s.io/etcd
registry.k8s.io/etcd
docker/desktop-vpnkit-controller
                                                                                                                                                                        months ago
                                                                                                                                                                      5 months ago
                                                   3.5.15-0
                                                                                                                                                    2e96e5913fc0
                                                                                                                                                                                                 148MB
                                                   3.5.12-0
                                                                                                                                                    3861cfcd7c04
                                                                                                                                                                      11 months ago
                                                                                                                                                                                                 149MB
                                                   dc331cb22850be0cdd97c84a9cfecaf44a1afb6e
                                                                                                                                                                      20 months ago
 egistry.k8s.io/pause
                                                                                                                                                    e6f181688397
                                                                                                                                                                                                 744kB
locker/desktop-storage-provisioner
                                                   v2.0
                                                                                                                                                    99f89471f470
                                                                                                                                                                                                41.9ME
```

With Tags Also, We Can Change The Name Of Image, Not Only The Tag Name:

```
~/Desktop/react-app >
                             ₽ master
      docker images
                                     IMAGE ID
REPOSITORY
                           TAG
                                                     CREATED
react-app
                                     b06073bda4c6
                                                     18 minutes ago
react-app
                           latest
                                     b06073bda4c6
                                                     18 minutes ago
                                                                        2
2
7
codewithmosh/react-app
                           2
                                     b06073bda4c6
                                                     18 minutes ago
                                     f4b1daa5babc
react-app
                                                     35 minutes ago
                                     4dd97cefde62
                                                     12 days ago
ubuntu
                           latest
                                                                        5
                                     28f6e2705743
alpine
                           latest
                                                     3 weeks ago
```

To Save The Image AS Tar File, We Can:

- Run Command: docker image save -o file-name.tar image-name:tag
 - o Ex: docker image save -o react-app.tar react-app:2

PS C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04> docker image save -o react-app.tar react-app:2

node_modules	1/8/2025 8:16 PM	File folder	
nublic public	1/8/2025 8:18 PM	File folder	
src src	1/8/2025 8:18 PM	File folder	
dockerignore	1/6/2025 3:16 PM	DOCKERIGNORE F	1 KB
Dockerfile	1/7/2025 9:38 AM	File	1 KB
o package.json	3/5/2021 10:00 PM	JSON Source File	1 KB
package-lock.json	1/6/2025 2:38 PM	JSON Source File	910 KB
🏧 react-app.tar	1/12/2025 2:20 PM	WinRAR archive	522,392 KB
README.md	1/12/2025 1:58 PM	Markdown Source	4 KB
🏧 section4-react-app.zip	3/16/2021 7:35 PM	WinRAR ZIP archive	510 KB

To Load The Image From Tar File, We Can use load-Command Of Image:

• Run Command: docker image load -i file-name.tar

```
:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker images
 REPOSITORY
                                                                                                                                                                                                               IMAGE ID
850d1f628e28
                                                                                                                                                                                                                                         CREATED
                                                                        latest
                                                                                                                                                                                                                                         16 minutes ago
 eact-app
                                                                                                                                                                                                                                                                      480MB
 react-app
docker/desktop-kubernetes
                                                                                                                                                                                                                                        5 days ago
2 months ago
4 months ago
4 months ago
                                                                                                                                                                                                               1fb32099b101
a60dd8dae2ad
                                                                                                                                                                                                                                                                      480MB
435MB
                                                                        kubernetes-v1.30.5-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.11-1-debian
docker/desktop-kubernetes
registry.k8s.io/kube-apiserver
registry.k8s.io/kube-scheduler
registry.k8s.io/kube-controller-manager
registry.k8s.io/kube-proxy
registry.k8s.io/coredns/coredns
registry.k8s.io/etcd
registry.k8s.io/etcd
docker/desktop-vpnkit-controller
                                                                        v1.30.5
v1.30.5
                                                                                                                                                                                                               e9adc5c075a8
                                                                                                                                                                                                                                                                      117MB
62MB
                                                                                                                                                                                                               25903461e65c
                                                                        v1.30.5
v1.30.5
                                                                                                                                                                                                              38406042cf08
71161e05b9bb
                                                                                                                                                                                                                                        4 months ago
4 months ago
                                                                                                                                                                                                                                                                      111MB
84.7MB
                                                                                                                                                                                                              c69fa2e9cbf5
2e96e5913fc0
                                                                                                                                                                                                                                        5 months ago
5 months ago
                                                                                                                                                                                                                                                                      61.8MB
148MB
                                                                                                                                                                                                                                        11 months ago
20 months ago
                                                                                                                                                                                                                                                                      149MB
36.2MB
                                                                        3.5.12-0
                                                                                                                                                                                                               3861cfcd7c04
                                                                                                                                                                                                               556098075b3d
                                                                        dc331cb22850be0cdd97c84a9cfecaf44a1afb6e
registry.k8s.io/pause
docker/desktop-storage-provisioner
                                                                                                                                                                                                              e6f181688397
99f89471f470
                                                                                                                                                                                                                                        2 years ago
3 years ago
                                                                                                                                                                                                                                                                      744kB
                                                                        v2.0
                                                                                                                                                                                                                                                                      41.9MB
 :\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker image load -i react-app.tar
  paded image: react-app:2
 :\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>
  :\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker images
EPOSITORY TAG
REPOSITORY
                                                                                                                                                                                                               IMAGE ID
                                                                                                                                                                                                                                        CREATED
react-app
react-app
                                                                                                                                                                                                              850d1f628e28
850d1f628e28
                                                                                                                                                                                                                                        19 minutes ago
19 minutes ago
                                                                                                                                                                                                                                                                      480MB
480MB
                                                                        _
latest
                                                                                                                                                                                                              1fb32099b101
a60dd8dae2ad
                                                                                                                                                                                                                                        5 days ago
2 months ago
                                                                                                                                                                                                                                                                      480MB
435MB
 ocker/desktop-kubernetes
                                                                        kubernetes-v1.30.5-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.11-1-debian
docker/desktop-kubernetes
registry.k8s.io/kube-apiserver
registry.k8s.io/kube-controller-manager
registry.k8s.io/kube-scheduler
registry.k8s.io/kube-proxy
registry.k8s.io/coredns/coredns
registry.k8s.io/etcd
docker/desktop-vnykit-controller
                                                                        v1.30.5
v1.30.5
                                                                                                                                                                                                               e9adc5c075a8
38406042cf08
                                                                                                                                                                                                                                                                      117MB
111MB
                                                                                                                                                                                                                                         4 months ago
                                                                                                                                                                                                                                         4 months ago
                                                                                                                                                                                                                                        4 months ago
4 months ago
5 months ago
5 months ago
                                                                                                                                                                                                                                                                     62MB
84.7MB
61.8MB
148MB
                                                                        v1.30.5
v1.30.5
                                                                                                                                                                                                               25903461e65c
71161e05b9bb
                                                                                                                                                                                                              c69fa2e9cbf5
2e96e5913fc0
                                                                        3.5.15-0
                                                                                                                                                                                                                                        11 months ago
20 months ago
                                                                                                                                                                                                                                                                      149MB
36.2MB
 ocker/desktop-vpnkit-controller
                                                                        dc331cb22850be0cdd97c84a9cfecaf44a1afb6e
                                                                                                                                                                                                               556098075b3d
registry.k8s.io/pause
docker/desktop-storage-provisioner
                                                                                                                                                                                                              e6f181688397
99f89471f470
                                                                        v2.0
```

Note 1 (To Remember): The Container Is Special Process; That Contains Its Own File-System.

Note 2 (To Remember): To Show The Current Running Containers:

• Run Command: docker ps

	er\Ultimate-Docker-Course-By					
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
45dada10bae5	99f89471f470	"/storage-provisione"	About an hour ago	Up About an hour		k8s_storage-provisioner_storage-provisioner_kube-sy
stem_/+510/94 92dbf34838ad	-a990-4a97-bfa4-fe2be3f14ddb_	_9 "/coredns -conf /etc"	Ab	the About on boom		10
	c69fa2e9cbf5 e67-9360-4163abc14142 4	/coreans -conf /etc	About an hour ago	Up About an hour		k8s_coredns_coredns-55cb58b774-wrtnq_kube-system_ac
6c4734457561	556098075b3d	"/kube-vpnkit-forwar"	About an hour ago	Up About an hour		k8s vpnkit-controller vpnkit-controller kube-system
	b-441c-a2b9-ffb6911af55f 4	/ Rube-vpilkit-101 wai	About all llour ago	op About all lloui		kos_vpiikite-coilei oilei _vpiikite-coilei ollei _kube-systeiii
	c69fa2e9cbf5	"/coredns -conf /etc"	About an hour ago	Up About an hour		k8s coredns coredns-55cb58b774-bzwcf kube-system 18
	.56f-915a-056a1db05af7 4					
48c45e4154f9	71161e05b9bb	"/usr/local/bin/kube"	About an hour ago	Up About an hour		k8s kube-proxy kube-proxy-ggnbs kube-system 645fb9d
0-02a0-4baa-8	402-9cc72c67b81c_4					_ , ,_ , , , , , _ , _
	registry.k8s.io/pause:3.9	"/pause"	About an hour ago	Up About an hour		k8s_POD_coredns-55cb58b774-bzwcf_kube-system_18f7a3
	915a-056a1db05af7_4					
	registry.k8s.io/pause:3.9	"/pause"	About an hour ago	Up About an hour		k8s_POD_storage-provisioner_kube-system_7f510794-a9
	fe2be3f14ddb_4	H (10- 000
c0274f09a99d -441c-a2b9-ff		"/pause"	About an hour ago	Up About an hour		k8s_POD_vpnkit-controller_kube-system_13a5bfea-652b
ad224586af42		"/pause"	About an hour ago	Up About an hour		k8s POD coredns-55cb58b774-wrtng kube-system acde40
	9360-4163abc14142 4	/ pause	About all llour ago	op About all lloui		KOS_FOD_COI Edits-55CD56D774-WI Cliq_Kube-3y3Ceiii_acde40
390e083224b1	registry.k8s.io/pause:3.9	"/pause"	About an hour ago	Up About an hour		k8s POD kube-proxy-ggnbs kube-system 645fb9d0-02a0-
4baa-8402-9cc		, paase	Albert all Hear age			ROS_FOS_ROSE PLONY 44.105_ROSE SYSTEM_01315500 0200
2b0a7eb1e9b0	e9adc5c075a8	"kube-apiserverad"	About an hour ago	Up About an hour		k8s kube-apiserver kube-apiserver-docker-desktop ku
be-system_d43	4b6204d0c098c50c950349b7733a8	8_4				
b1c18ef36d5b	25903461e65c	"kube-schedulerau"	About an hour ago	Up About an hour		k8s_kube-scheduler_kube-scheduler-docker-desktop_ku
	6d8d97c3e0dd23acb0fbfddb4c858					
e54db77b1e9e	2e96e5913fc0	"etcdadvertise-cl…"	About an hour ago	Up About an hour		k8s_etcd_etcd-docker-desktop_kube-system_c5b170ff76
8038eeffed62d						1-11
50815d32dff4	38406042cf08 op kube-system 22cc6ce107a026	"kube-controller-man"	About an hour ago	Up About an hour		k8s_kube-controller-manager_kube-controller-manager
2317982dc6b7	registry.k8s.io/pause:3.9	"/pause"	About an hour ago	Up About an hour		k8s POD kube-controller-manager-docker-desktop kube
	ce107a02e4a29f59621a1064daf 4		About all llour ago	op About all lloui		KOS_FOD_KUDE-CONTI OTTEN -MANAGEN -GOCKEN -GESKLOP_KUDE
3d4b011c8a10	registry.k8s.io/pause:3.9	"/pause"	About an hour ago	Up About an hour		k8s POD kube-apiserver-docker-desktop kube-system d
	8c50c950349b7733a8 4	, p====	-8-			:p::
7ae3740d83a5	registry.k8s.io/pause:3.9	"/pause"	About an hour ago	Up About an hour		k8s POD kube-scheduler-docker-desktop kube-system d
b86d8d97c3e0d	d23acb0fbfddb4c858_4					
1bc8f34e4d74	registry.k8s.io/pause:3.9	"/pause"	About an hour ago	Up About an hour		k8s_POD_etcd-docker-desktop_kube-system_c5b170ff768
038eeffed62d1	959e63c2 4					

To Run The Image In Detach Mode (In The Background):

C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker run -d react-app 28865229ef789daffade7305b12f0ec051182cf0bbe0b467d4d6e1e69329e8e0

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker container logs 28865229ef78
  react-app@0.1.0 start /app
  react-scripts start
  @wds@: Project is running at http://172.17.0.2/
  DwdsD: webpack output is served from
  @wds@: Content not from webpack is served from /app/public
  @wds@: 404s will fallback to /
Starting the development server...
One of your dependencies, babel-preset-react-app, is importing the
 @babel/plugin-proposal-private-property-in-object" package without leclaring it in its dependencies. This is currently working because @babel/plugin-proposal-private-property-in-object" is already in your lode_modules folder for unrelated reasons, but it may break at any time.
pabel-preset-react-app is part of the create-react-app project, which
is not maintianed anymore. It is thus unlikely that this bug will
ever be fixed. Add "@babel/plugin-proposal-private-property-in-object" to
your devDependencies to work around this error. This will make this message
Compiled successfully!
You can now view react-app in the browser.
  Local:
                         http://localhost:3000
  On Your Network: http://172.17.0.2:3000
Note that the development build is not optimized.
To create a production build, use npm run build.
```

To Give The Running Container Name:

• Run Command: docker run -d --name name-here image-name-here

```
:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker run --name blue-sky -d react-app
7a417b9fb4bd5b4b309d2d2eb4b04223f11f1b852b975070aac097d0e50710bd
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker ps
                                          COMMAND
CONTAINER ID
                                                                                   STATUS
                                                                                                  PORTS
                                                                                                             NAMES
7a417b9fb4bd
                                           "docker-entrypoint.s.."
              react-app
                                                                   5 seconds ago
                                                                                   Up 4 seconds
                                                                                                  3000/tcp
                                                                                                             blue-sky
28865229ef78
                                          "docker-entrypoint.s..." 3 minutes ago Up 3 minutes
                                                                                                  3000/tcp
                                                                                                             trusting yonath
             react-app
```

The Other Way To Show The Container Logs:

• Run Command: docker logs container-id-here

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker logs blue-sky
  react-app@0.1.0 start /app
  react-scripts start
  Dwds@: Project is running at http://172.17.0.3/
  @wds@: webpack output is served from
 @wds@: Content not from webpack is served from /app/public
 DwdsD: 404s will fallback to /
Starting the development server...
One of your dependencies, babel-preset-react-app, is importing the
'@babel/plugin-proposal-private-property-in-object" package without declaring it in its dependencies. This is currently working because
 @babel/plugin-proposal-private-property-in-object" is already in your
 ode modules folder for unrelated reasons, but it may break at any time.
babel-preset-react-app is part of the create-react-app project, which is not maintianed anymore. It is thus unlikely that this bug will ever be fixed. Add "@babel/plugin-proposal-private-property-in-object" to
your devDependencies to work around this error. This will make this message
go away.
Compiled successfully!
You can now view react-app in the browser.
                        http://localhost:3000
  Local:
  On Your Network: http://172.17.0.3:3000
Note that the development build is not optimized.
To create a production build, use npm run build.
```

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker logs 28865229ef78
  react-app@0.1.0 start /app
  react-scripts start
  DwdsD: Project is running at http://172.17.0.2/
  DwdsD: webpack output is served from
  @wds@: Content not from webpack is served from /app/public
  @wds@: 404s will fallback to /
Starting the development server...
One of your dependencies, babel-preset-react-app, is importing the
 '@babel/plugin-proposal-private-property-in-object" package without declaring it in its dependencies. This is currently working because '@babel/plugin-proposal-private-property-in-object" is already in your
 ode modules folder for unrelated reasons, but it may break at any time.
 pabel-preset-react-app is part of the create-react-app project, which
is not maintianed anymore. It is thus unlikely that this bug will ever be fixed. Add "@babel/plugin-proposal-private-property-in-object" to your devDependencies to work around this error. This will make this message
 o away.
Compiled successfully!
You can now view react-app in the browser.
                          http://localhost:3000
  Local:
  On Your Network: http://172.17.0.2:3000
Note that the development build is not optimized.
To create a production build, use npm run build.
```

If Our Container, Always; Produce Logs Data:

- Run Command: docker logs -f container-id/container-name
- And To Close The Follow Output: CTRL + C

To Specify The Number Of Lines To Show, From Bottom To Top:

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker logs -n 10 28865229ef78
Compiled successfully!

You can now view react-app in the browser.

Local: http://localhost:3000
On Your Network: http://172.17.0.2:3000

Note that the development build is not optimized.
To create a production build, use npm run build.
```

And To Show The Timestamps:

• Run Command: docker logs -n 10 -t container-id/container-name

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker logs -n 10 -t blue-sky 2025-01-12T12:07:51.286153136Z Compiled successfully! 2025-01-12T12:07:51.286659177Z 2025-01-12T12:07:51.286689180Z You can now view react-app in the browser. 2025-01-12T12:07:51.286689180Z You can now view react-app in the browser. 2025-01-12T12:07:51.286701881Z 2025-01-12T12:07:51.287052010Z Local: http://localhost:3000 2025-01-12T12:07:51.287106514Z On Your Network: http://172.17.0.3:3000 2025-01-12T12:07:51.287387637Z 2025-01-12T12:07:51.287410839Z Note that the development build is not optimized. 2025-01-12T12:07:51.287534049Z To create a production build, use npm run build. 2025-01-12T12:07:51.287555451Z
```

```
:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker stop blue-sky
blue-sky
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker ps
COMMAND CREATED
28865229ef78 react-app "docker-entrypoint.s..." 16 minutes a
15dada10bae5 99f89471f470 "/storage-provisione..." 2 hours ago
                                                                                                                                                                 CREATED
16 minutes ago
                                                                                                                                                                                                         STATUS
Up 16 minutes
Up 2 hours
                                                                                                                                                                                                                                                PORTS
3000/tcp
                                                                                                                                                                                                                                                                           NAMES
trusting_yonath
                                                                                                                                                                                                                                                                           k8s_storage-provisioner_storage-provisioner_kube-system
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                                                                                                      "/coredns -conf /etc..."
                                                                                                                                                               2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                                                                                                                                                                                           k8s_coredns_coredns-55cb58b774-wrtnq_kube-system_acde409
  c4734457561 556098075b3d
fea-652b-441c-a2b9-ffb6911af55f_4
                                                                                                     "/kube-vpnkit-forwar..." 2 hours ago
                                                                                                                                                                                                                                                                           k8s_vpnkit-controller_vpnkit-controller_kube-system_13a5
 TRB-0-520-441C-2409-TTV05114T55T_4

(337da9c13 c69fa2e9cbf5 "/coredns
-b912-456f-915a-056a1db05af7_4

8c45e4154f9 71161e85b9bb "/usr/loc
-4baa-8402-9cc72c67b81c_4

5cad099db44 registry.k8s.io/pause:3.9 "/pause"
2-456f-915a-056a1db05af7_4
                                                                                                     "/coredns -conf /etc..." 2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                                                                                                                                                                                           k8s coredns coredns-55cb58b774-bzwcf kube-system 18f7a3c
                                                                                                     "/usr/local/bin/kube..."
                                                                                                                                                                                                                                                                           k8s_kube-proxy_kube-proxy-qqnbs_kube-system_645fb9d0-02a
                                                                                                                                                              2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                                                                                2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                                                                                                                                                                                           k8s_POD_coredns-55cb58b774-bzwcf_kube-system_18f7a3cb-b9
12-4507-9153-055010005317_4
e1502f86811e registry.k8s.io/pause:3.9
97-bfa4-fe2be3f14ddb_4
.0272f89a99d registry.k8s.io/pause:3.9
-a2b9-ffb6911af557_4
ad224586af42 registry.k8s.io/pause:3.9
18-4e67-9360-4163abc14142_4
808
                                                                                                    "/pause"
                                                                                                                                                                                                                                                                           k8s_POD_storage-provisioner_kube-system_7f510794-a990-4a
                                                                                                                                                                2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                     "/pause"
                                                                                                                                                                                                                                                                           k8s_POD_vpnkit-controller_kube-system_13a5bfea-652b-441c
                                                                                                                                                                2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                    "/pause"
                                                                                                                                                                 2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                                                                                                                                                                                           k8s_POD_coredns-55cb58b774-wrtnq_kube-system_acde409e-03
18-4e0-9300-41030014142_4

]90e083224b1 registry.k8s.io/pause:3.9 "/pause"

1402-9cc72c67b81c_4

]b0a7eb1e9b0 e9adc5c075a8 "kube-ap:

stem_d434b6204d0c098c56c950349b7733a8_4
                                                                                                                                                                 2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                                                                                                                                                                                           k8s POD kube-proxy-ggnbs kube-system 645fb9d0-02a0-4baa
                                                                                                     "kube-apiserver --ad..."
                                                                                                                                                                                                                                                                           k8s kube-apiserver kube-apiserver-docker-desktop kube-s
                                                                                                                                                                                                         Up 2 hours
 11c18ef36d5b 25903461e65c
:tem_db86d8d97c3e0dd23acb0fbfddb4c858_4
:54db77b1e9e 2e96e5913fc0
                                                                                                     "kube-scheduler --au..." 2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                                                                                                                                                                                           k8s kube-scheduler kube-scheduler-docker-desktop kube-scheduler
                                                                                                    "etcd --advertise-cl..." 2 hours ago
                                                                                                                                                                                                                                                                           k8s etcd etcd-docker-desktop kube-system c5b170ff7680386
                                                                                                                                                                                                         Up 2 hours
effed62d1959e63c2_4
50815d32dff4 38496042cf08 "kube-controll
er-desktop_kube-system_22cc6ce107a02e4a29f59621a1064daf_4
2317982dc6b7 registry.k8s.io/pause:3.9 "/pause"
                                                                                                                                                                                                         Up 2 hours
                                                                                                                                                                                                                                                                           k8s_kube-controller-manager_kube-controller-manager-doc
23-17982/d657 registry.k8s.io/pause:3.9
em_22cc6ce107a02e4a29f59621a1064daf_4
3d4b011c8a10 registry.k8s.io/pause:3.9
204d0c098c50c950349b7733a8_4
27ae3740d83a5 registry.k8s.io/pause:3.9
                                                                                                                                                                 2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                                                                                                                                                                                           k8s POD kube-controller-manager-docker-desktop kube-syst
                                                                                                     "/pause"
                                                                                                                                                                                                                                                                           k8s POD kube-apiserver-docker-desktop kube-system d434b
                                                                                                                                                                 2 hours ago
                                                                                                                                                                                                         Up 2 hours
                                                                                                                                                                                                                                                                           k8s_POD_kube-scheduler-docker-desktop_kube-system_db86d
     8f34e4d74 registry.k8s.io/pause:3.9
d62d1959e63c2_4
                                                                                                    "/pause"
                                                                                                                                                                                                                                                                           k8s_POD_etcd-docker-desktop_kube-system_c5b170ff768038e
 bc8f34e4d74
                                                                                                                                                                 2 hours ago
                                                                                                                                                                                                         Up 2 hours
```

To Run Container With Specific Port From Host To Container:

- Run Command: docker run -d -p host-port:container-port --name name-here image-name
 - o *Ex*: docker run -d -p 3001:3000 --name c1 react-app

C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker run -d -p 3001:3000 --name c1 react-app 4523870c08d52f5d6b2f0169ff4a31f5f7b17bfd5347a78a8edd04840a20c09a

```
PORTS
0.0.0.0:3001->3000/tcp
                                                  "docker-entrypoint.s..."
                                                                              About a minute ago
21 minutes ago
2 hours ago
                                                                                                        Up About a minute
Up 21 minutes
Up 2 hours
                react-app
                                                                                                                                                            c1
trusting_yonath
k8s_storage-provisioner_storage-pr
Up 2 hours
                                                                                                                                                            k8s_coredns_coredns-55cb58b774-wrt
                                                                                                       Up 2 hours
                                                                                                                                                            k8s_vpnkit-controller_vpnkit-contr
 Up 2 hours
                                                                              2 hours ago
                                                                                                       Up 2 hours
                                                                                                                                                            k8s kube-proxy kube-proxy-ggnbs ku
 -system_645fb9d0-02a0-4baa-8402-9cc72c67b81c_4
pe-system_645fb90d-02a0-4baa-840Z-9cc72c67b81c_4

85cad0990fb44 registry, k8s.io/pause:3.9 "/pause"

ube-system_18f7a3cb-b912-456f-915a-056a1db05af7_4

#15d2f86811e registry,k8s.io/pause:3.9 "/pause"

ystem_7f510794-a990-4a97-bfa4-fe2ba5f14ddb_4

#20Z74f909904 registry,k8s.io/pause:3.9 "/pause"

tem_13a5bfea-652b-441c-a2b9-ff6911af55f_4

ad2Z4586af42 registry,k8s.io/pause:3.9 "/pause"
                                                                                                                                                            k8s_POD_coredns-55cb58b774-bzwcf_k
                                                                                                       Up 2 hours
                                                                                                                                                            k8s POD storage-provisioner kube-s
                                                                              2 hours ago
                                                                                                       Up 2 hours
                                                                                                        Up 2 hours
                                                                                                                                                            k8s POD vpnkit-controller kube-sys
 em_laabrea-oszu-441--azb9-rtb0911a757_4
2024586af42 registry.k8s.io/pause:3.9 "/pause"
be-system_acde409e-03d8-4e67-9360-4163abc14142_4
90e083224b1 registry.k8s.io/pause:3.9 "/pause"
m_645fb9d8-02a8-4baa-8402-9cc72c67b81c_4
                                                                              2 hours ago
                                                                                                       Up 2 hours
                                                                                                                                                            k8s POD coredns-55cb58b774-wrtna k
                                                                               2 hours ago
                                                                                                       Up 2 hours
                                                                                                                                                            k8s_POD_kube-proxy-qqnbs_kube-syst
Up 2 hours
                                                                                                                                                            k8s kube-apiserver kube-apiserver
                                                                                                                                                            k8s_kube-scheduler_kube-scheduler-
                                                                                                       Up 2 hours
                                                                                                       Up 2 hours
                                                                                                                                                            k8s_etcd_etcd-docker-desktop_kube-
Up 2 hours
                                                                                                                                                            k8s kube-controller-manager kube-c
                                                                                                                                                            k8s POD kube-controller-manager-do
                                                                                                       Up 2 hours
                                                                                                       Up 2 hours
                                                                                                                                                            k8s_POD_kube-apiserver-docker-desk
                                                                                                       Up 2 hours
                                                                                                                                                            k8s_POD_kube-scheduler-docker-desk
1bc8f34e4d74 registry.k8s.io/pause:3.9
ystem c5b170ff768038eeffed62d1959e63c2 4
                                                                                                        Up 2 hours
                                                                                                                                                            k8s_POD_etcd-docker-desktop_kube-s
```

To Execute Specific Command On The Running Container:

- Run Command: docker exec container-name/container-id command-here
 - o Ex: docker exec c1 ls

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker exec c1 ls
Dockerfile
README.md
node_modules
package-lock.json
package.json
public
src
```

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker exec -it c1 sh
/app $ whoami
app
/app $ exit

What's next:
    Try Docker Debug for seamless, persistent debugging tools in any container or image → docker debug c1
    Learn more at https://docs.docker.com/go/debug-cli/
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>
```

C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker stop c1
c1

With Docker Start We Can Start A Stopped Container:

- Run Command: docker start container-name-here
 - o Ex: docker start c1

C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker start c1
c1

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
4523870c08d5 react-app "docker-entrypoint.s.." 19 minutes ago Up 29 seconds 0.0.0:3001->3000/tcp c1
45dada10bae5 99f89471f470 "/storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_storage-provisioner_stor
```

To Remove Container:

- Run Command: docker container rm c1
- OR Run Short Command: docker rm c1

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker rm c1
Error response from daemon: cannot remove container "/c1": container is running: stop the container before removing or force remove
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker stop c1
c1
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker rm c1
c1
```