

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
react-app	2	850d1f628e28	20 seconds ago	480MB
react-app	1	1fb32099b101	5 days ago	480MB
react-app	latest	1fb32099b101	5 days ago	480MB
docker/desktop-kubernetes	kubernetes-v1.30.5-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.11-1-debian	a60dd8dae2ad	2 months ago	435MB
registry.k8s.io/kube-apiserver	v1.30.5	e9adc5c075a8	4 months ago	117MB
registry.k8s.io/kube-controller-manager	v1.30.5	38406042cf08	4 months ago	111MB
registry.k8s.io/kube-scheduler	v1.30.5	25903461e65c	4 months ago	62MB
registry.k8s.io/kube-proxy	v1.30.5	71161e05b9bb	4 months ago	84.7MB
registry.k8s.io/coredns/coredns	v1.11.3	c69fa2e9cbf5	5 months ago	61.8MB
registry.k8s.io/etcd	3.5.15-0	2e96e5913fc0	5 months ago	148MB
registry.k8s.io/etcd	3.5.12-0	3861cfc7c04	11 months ago	149MB
docker/desktop-vpnkit-controller	dc331cb22850be0cdd97c84a9cfecaf44a1afb6e	556098075b3d	20 months ago	36.2MB
registry.k8s.io/pause	3.9	e6f181688397	2 years ago	744kB
docker/desktop-storage-provisioner	v2.0	99f89471f470	3 years ago	41.9MB

\*\*\*\*\*

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

```
C:\Users\Tatweer>docker image tag 850 react-app:latest
```

```
C:\Users\Tatweer>docker images
```

'dokcer' is not recognized as an internal or external command,  
operable program or batch file.

```
C:\Users\Tatweer>docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
react-app	2	850d1f628e28	About a minute ago	480MB
react-app	latest	850d1f628e28	About a minute ago	480MB
react-app	1	1fb32099b101	5 days ago	480MB
docker/desktop-kubernetes	kubernetes-v1.30.5-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.11-1-debian	a60dd8dae2ad	2 months ago	435MB
registry.k8s.io/kube-apiserver	v1.30.5	e9adc5c075a8	4 months ago	117MB
registry.k8s.io/kube-scheduler	v1.30.5	25903461e65c	4 months ago	62MB
registry.k8s.io/kube-controller-manager	v1.30.5	38406042cf08	4 months ago	111MB
registry.k8s.io/kube-proxy	v1.30.5	71161e05b9bb	4 months ago	84.7MB
registry.k8s.io/coredns/coredns	v1.11.3	c69fa2e9cbf5	5 months ago	61.8MB
registry.k8s.io/etcd	3.5.15-0	2e96e5913fc0	5 months ago	148MB
registry.k8s.io/etcd	3.5.12-0	3861cfc7c04	11 months ago	149MB
docker/desktop-vpnkit-controller	dc331cb22850be0cdd97c84a9cfecaf44a1afb6e	556098075b3d	20 months ago	36.2MB
registry.k8s.io/pause	3.9	e6f181688397	2 years ago	744kB
docker/desktop-storage-provisioner	v2.0	99f89471f470	3 years ago	41.9MB

\*\*\*\*\*

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

```
~/Desktop/react-app git master
```

```
> docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
react-app	2	b06073bda4c6	18 minutes ago	2
react-app	latest	b06073bda4c6	18 minutes ago	2
codewithmosh/react-app	2	b06073bda4c6	18 minutes ago	2
react-app	1	f4b1daa5babc	35 minutes ago	2
ubuntu	latest	4dd97cefde62	12 days ago	7
alpine	latest	28f6e2705743	3 weeks ago	5











\*\*\*\*\*

To Save The Image AS Tar File, We Can:

- *Run Command:* `docker image save -o file-name.tar image-name:tag`
  - *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	
	public	1/8/2025 8:18 PM	File folder	
	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
	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*

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

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
react-app	latest	850d1f628e28	16 minutes ago	480MB
react-app	1	1fb32099b101	5 days ago	480MB
docker/desktop-kubernetes	kubernetes-v1.30.5-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.11-1-debian	a60dd8dae2ad	2 months ago	435MB
registry.k8s.io/kube-apiserver	v1.30.5	e9adc5c075a8	4 months ago	117MB
registry.k8s.io/kube-scheduler	v1.30.5	25903461e65c	4 months ago	62MB
registry.k8s.io/kube-controller-manager	v1.30.5	38406042cf08	4 months ago	111MB
registry.k8s.io/kube-proxy	v1.30.5	71161e05b9bb	4 months ago	84.7MB
registry.k8s.io/coredns/coredns	v1.11.3	c69fa2e9cbf5	5 months ago	61.8MB
registry.k8s.io/etcd	3.5.15-0	2e96e5913fc0	5 months ago	148MB
registry.k8s.io/etcd	3.5.12-0	3861cfd7c04	11 months ago	149MB
docker/desktop-vpnkit-controller	dc331cb22850be0cdd97c84a9cfecaf44a1afb6e	556098075b3d	20 months ago	36.2MB
registry.k8s.io/pause	3.9	e6f181688397	2 years ago	744kB
docker/desktop-storage-provisioner	v2.0	99f89471f470	3 years ago	41.9MB

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker image load -i react-app.tar
Loaded image: react-app:2

C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>
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 images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
react-app	2	850d1f628e28	19 minutes ago	480MB
react-app	latest	850d1f628e28	19 minutes ago	480MB
react-app	1	1fb32099b101	5 days ago	480MB
docker/desktop-kubernetes	kubernetes-v1.30.5-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.11-1-debian	a60dd8dae2ad	2 months ago	435MB
registry.k8s.io/kube-apiserver	v1.30.5	e9adc5c075a8	4 months ago	117MB
registry.k8s.io/kube-controller-manager	v1.30.5	38406042cf08	4 months ago	111MB
registry.k8s.io/kube-scheduler	v1.30.5	25903461e65c	4 months ago	62MB
registry.k8s.io/kube-proxy	v1.30.5	71161e05b9bb	4 months ago	84.7MB
registry.k8s.io/coredns/coredns	v1.11.3	c69fa2e9cbf5	5 months ago	61.8MB
registry.k8s.io/etcd	3.5.15-0	2e96e5913fc0	5 months ago	148MB
registry.k8s.io/etcd	3.5.12-0	3861cfd7c04	11 months ago	149MB
docker/desktop-vpnkit-controller	dc331cb22850be0cdd97c84a9cfecaf44a1afb6e	556098075b3d	20 months ago	36.2MB
registry.k8s.io/pause	3.9	e6f181688397	2 years ago	744kB
docker/desktop-storage-provisioner	v2.0	99f89471f470	3 years ago	41.9MB

\*\*\*\*\*

*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**

```
C:\Tests\Docker\Ultimate-Docker-Course-By-Mosh\Tutorial-01\Section-04>docker ps
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_7f510794-a990-4a97-bfa4-fe2be3f14ddb_9
92dbf34838ad   c69fa2e9cbf5                        "/coredns -conf /etc..." About an hour ago Up About an hour      k8s_coredns_coredns-55cb58b774-wrtnq_kube-system_ac
de409e-03d8-4e67-9360-4163abc14142_4
6c4734457561   556098075b3d                        "/kube-vpnkit-forwar..." About an hour ago Up About an hour      k8s_vpnkit-controller_vpnkit-controller_kube-system
_13a5bfea-652b-441c-a2b9-ffb6911af55f_4
2c337da9ec13   c69fa2e9cbf5                        "/coredns -conf /etc..." About an hour ago Up About an hour      k8s_coredns_coredns-55cb58b774-bzwc_f_kube-system_18
f7a3cb-b912-456f-915a-056a1db05af7_4
48c45e4154f9   71161e05b9bb                        "/usr/local/bin/kube..." About an hour ago Up About an hour      k8s_kube-proxy_kube-proxy-qqnbs_kube-system_645fb9d
0-02a0-4baa-8402-9cc72c67b81c_4
85cad099db44   registry.k8s.io/pause:3.9           "/pause"                About an hour ago Up About an hour      k8s_POD_coredns-55cb58b774-bzwc_f_kube-system_18f7a3
cb-b912-456f-915a-056a1db05af7_4
e15d2f86811e   registry.k8s.io/pause:3.9           "/pause"                About an hour ago Up About an hour      k8s_POD_storage-provisioner_kube-system_7f510794-a9
90-4a97-bfa4-fe2be3f14ddb_4
c0274f09a99d   registry.k8s.io/pause:3.9           "/pause"                About an hour ago Up About an hour      k8s_POD_vpnkit-controller_kube-system_13a5bfea-652b
-441c-a2b9-ffb6911af55f_4
ad224586af42   registry.k8s.io/pause:3.9           "/pause"                About an hour ago Up About an hour      k8s_POD_coredns-55cb58b774-wrtnq_kube-system_acde40
9e-03d8-4e67-9360-4163abc14142_4
390e083224b1   registry.k8s.io/pause:3.9           "/pause"                About an hour ago Up About an hour      k8s_POD_kube-proxy-qqnbs_kube-system_645fb9d0-02a0-
4baa-8402-9cc72c67b81c_4
2b0a7eb1e9b0   e9ade5c075a8                        "kube-apiserver --ad..." About an hour ago Up About an hour      k8s_kube-apiserver_kube-apiserver-docker-desktop_ku
be-system_d434b6204d0c098c50c950349b7733a8_4
b1c18ef36d5b   25903461e65c                        "kube-scheduler --au..." About an hour ago Up About an hour      k8s_kube-scheduler_kube-scheduler-docker-desktop_ku
be-system_db86d8d97c3e0dd23acb0fbfddb4c858_4
e54db77b1e9e   2e96e5913fc0                        "etcd --advertise-cl..." About an hour ago Up About an hour      k8s_etcd_etcd-docker-desktop_kube-system_c5b170ff76
8038eeffed62d1959e63c2_4
50815d32dff4   38406042cf08                        "kube-controller-man..." About an hour ago Up About an hour      k8s_kube-controller-manager_kube-controller-manager
-docker-desktop_kube-system_22cc6ce107a02e4a29f59621a1064daf_4
2317982dc6b7   registry.k8s.io/pause:3.9           "/pause"                About an hour ago Up About an hour      k8s_POD_kube-controller-manager-docker-desktop_kube
-system_22cc6ce107a02e4a29f59621a1064daf_4
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
434b6204d0c098c50c950349b7733a8_4
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
b86d8d97c3e0dd23acb0fbfddb4c858_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
038eeffed62d1959e63c2_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/
[wds] 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
node_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 maintained 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.

  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*

```
C:\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
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
7a417b9fb4bd	react-app	"docker-entrypoint.s..."	5 seconds ago	Up 4 seconds	3000/tcp	blue-sky
28865229ef78	react-app	"docker-entrypoint.s..."	3 minutes ago	Up 3 minutes	3000/tcp	trusting_yonath

\*\*\*\*\*

## 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

[3] [wds]: Project is running at http://172.17.0.3/
[3] [wds]: webpack output is served from
[3] [wds]: Content not from webpack is served from /app/public
[3] [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
node_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 maintained 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.

  Local:            http://localhost:3000
  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

[3] @wds@: Project is running at http://172.17.0.2/
[3] @wds@: webpack output is served from
[3] @wds@: Content not from webpack is served from /app/public
[3] @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
node_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 maintained 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.

  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.
```

\*\*\*\*\*

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.
2025-01-12T12:07:51.286701881Z
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
```

\*\*\*\*\*

```
C:\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
CONTAINER ID   IMAGE                                COMMAND                  CREATED          STATUS          PORTS          NAMES
288655229ef78   react-app                          "docker-entrypoint.s..." 16 minutes ago   Up 16 minutes   3000/tcp       trusting_yonath
45dada10bae5    99f9471f470                        "/storage-provisione..." 2 hours ago     Up 2 hours     k8s_storage-provisioner_storage-provisioner_kube-system_
7f510794-a990-4a97-bfa4-fe2be3f14ddb_9
92dbf34383ad    c69fa2e9cbf5                  "/coredns -conf /etc..." 2 hours ago     Up 2 hours     k8s_coredns_coredns-55c5b8b774-wrtnq_kube-system_acde409
e-03d8-4e67-9360-4163abc14142_4
6c4734457561    556998075b3d                  "/kube-vpnkit-forwar..." 2 hours ago     Up 2 hours     k8s_vpnkit-controller_vpnkit-controller_kube-system_13a5
bfea-652b-441c-a2b9-ffb6911af55f_4
2c337da9c13    c69fa2e9cbf5                  "/coredns -conf /etc..." 2 hours ago     Up 2 hours     k8s_coredns_coredns-55c5b8b774-bzwc_f_kube-system_18f7a3c
b-b912-456f-915a-056a1db05af7_4
48c45e4154f9    71161e05b9bb                  "/usr/local/bin/kube..." 2 hours ago     Up 2 hours     k8s_kube-proxy_kube-proxy-qqnbs_kube-system_645fb9d0-02a
0-4baa-8402-9cc72c67b81c_4
85cad099db44    registry.k8s.io/pause:3.9        "/pause"                2 hours ago     Up 2 hours     k8s_POD_coredns-55c5b8b774-bzwc_f_kube-system_18f7a3cb-b9
12-456f-915a-056a1db05af7_4
e15d2f86811e    registry.k8s.io/pause:3.9        "/pause"                2 hours ago     Up 2 hours     k8s_POD_storage-provisioner_kube-system_7f510794-a990-4a
97-bfa4-fe2be3f14ddb_4
c0274f09a99d    registry.k8s.io/pause:3.9        "/pause"                2 hours ago     Up 2 hours     k8s_POD_vpnkit-controller_kube-system_13a5bfea-652b-441c
a2b9-ffb6911af55f_4
ad224586af42    registry.k8s.io/pause:3.9        "/pause"                2 hours ago     Up 2 hours     k8s_POD_coredns-55c5b8b774-wrtnq_kube-system_acde409e-03
d8-4e67-9360-4163abc14142_4
390e083224b1    registry.k8s.io/pause:3.9        "/pause"                2 hours ago     Up 2 hours     k8s_POD_kube-proxy-qqnbs_kube-system_645fb9d0-02a0-4baa-
8402-9cc72c67b81c_4
2b0a7eb1e9b0    e9adc5c075a8                  "kube-apiserver --ad..." 2 hours ago     Up 2 hours     k8s_kube-apiserver_kube-apiserver-docker-desktop_kube-sy
stem_d434b6204d0c098c50c950349b7733a8_4
b1c18ef36d5b    25993461e65c                  "kube-scheduler --au..." 2 hours ago     Up 2 hours     k8s_kube-scheduler_kube-scheduler-docker-desktop_kube-sy
stem_db86d8d97c3e0dd23ac0fbfddb4c858_4
e54db77b1e9e    2e96e5913fc0                  "etcd --advertise-cl..." 2 hours ago     Up 2 hours     k8s_etcd_etcd-docker-desktop_kube-system_c5b170ff768038e
effed62d1959e63c2_4
50815d32dff4    38406042cf08                  "kube-controller-man..." 2 hours ago     Up 2 hours     k8s_kube-controller-manager_kube-controller-manager-dock
er-desktop_kube-system_22cc6ce107a02e4a29f59621a1064daf_4
2317982dc6b7    registry.k8s.io/pause:3.9        "/pause"                2 hours ago     Up 2 hours     k8s_POD_kube-controller-manager-docker-desktop_kube-syst
em_22cc6ce107a02e4a29f59621a1064daf_4
3d4b011c8a10    registry.k8s.io/pause:3.9        "/pause"                2 hours ago     Up 2 hours     k8s_POD_kube-apiserver-docker-desktop_kube-system_d434b6
204d0c098c50c950349b7733a8_4
7ae3740d83a5    registry.k8s.io/pause:3.9        "/pause"                2 hours ago     Up 2 hours     k8s_POD_kube-scheduler-docker-desktop_kube-system_db86d8
d97c3e0dd23ac0fbfddb4c858_4
1bc8f34e4d74    registry.k8s.io/pause:3.9        "/pause"                2 hours ago     Up 2 hours     k8s_POD_etcd-docker-desktop_kube-system_c5b170ff768038e
ffed62d1959e63c2_4
```

\*\*\*\*\*

### 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`
  - *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
```

\*\*\*\*\*



```
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..."	About a minute ago	Up About a minute	0.0.0.0:3001->3000/tcp	c1
28865229ef78	react-app	"docker-entrypoint.s..."	21 minutes ago	Up 21 minutes	3000/tcp	trusting_yonath
45dada10bae5	99f89471f470	"/storage-provisione..."	2 hours ago	Up 2 hours		k8s_storage-provisioner_storage-pr
ovisioner_kube-system	7f510794-a990-4a97-bfa4-fe2be3f14ddb_9	"/coredns -conf /etc..."	2 hours ago	Up 2 hours		k8s_coredns_coredns-55cb58b774-wrt
92dbf34838ad	c69fa2e9cbf5	"/coredns -conf /etc..."	2 hours ago	Up 2 hours		k8s_coredns_coredns-55cb58b774-wrt
nq_kube-system	acde409e-03d8-4e67-9360-4163abc14142_4	"/kube-vpnkit-forward..."	2 hours ago	Up 2 hours		k8s_vpnkit-controller_vpnkit-contr
6c4734457561	556098075b3d	"/kube-vpnkit-forward..."	2 hours ago	Up 2 hours		k8s_vpnkit-controller_vpnkit-contr
oller_kube-system	13a5bfea-652b-441c-a2b9-ffb6911af55f_4	"/coredns -conf /etc..."	2 hours ago	Up 2 hours		k8s_coredns_coredns-55cb58b774-bzw
2c337da9ec13	c69fa2e9cbf5	"/coredns -conf /etc..."	2 hours ago	Up 2 hours		k8s_coredns_coredns-55cb58b774-bzw
cf_kube-system	18f7a3cb-b912-456f-915a-056a1db05af7_4	"/usr/local/bin/kube..."	2 hours ago	Up 2 hours		k8s_kube-proxy_kube-proxy-qqnbs_ku
48c45e4154f9	71161e05b9bb	"/usr/local/bin/kube..."	2 hours ago	Up 2 hours		k8s_kube-proxy_kube-proxy-qqnbs_ku
be-system	645fb9d0-02a0-4baa-8402-9cc72c67b81c_4	"/pause"	2 hours ago	Up 2 hours		k8s_POD_coredns-55cb58b774-bzwc_f_k
85cad099db44	registry.k8s.io/pause:3.9	"/pause"	2 hours ago	Up 2 hours		k8s_POD_coredns-55cb58b774-bzwc_f_k
ube-system	18f7a3cb-b912-456f-915a-056a1db05af7_4	"/pause"	2 hours ago	Up 2 hours		k8s_POD_storage-provisioner_kube-s
ystem_7f510794	a990-4a97-bfa4-fe2be3f14ddb_4	"/pause"	2 hours ago	Up 2 hours		k8s_POD_storage-provisioner_kube-s
e15d2f86811e	registry.k8s.io/pause:3.9	"/pause"	2 hours ago	Up 2 hours		k8s_POD_vpnkit-controller_kube-sys
tem_13a5bfea-652b-441c-a2b9-ffb6911af55f_4	"/pause"	"/pause"	2 hours ago	Up 2 hours		k8s_POD_vpnkit-controller_kube-sys
ad224586af42	registry.k8s.io/pause:3.9	"/pause"	2 hours ago	Up 2 hours		k8s_POD_coredns-55cb58b774-wrtng_k
ube-system	acde409e-03d8-4e67-9360-4163abc14142_4	"/pause"	2 hours ago	Up 2 hours		k8s_POD_coredns-55cb58b774-wrtng_k
390e083224b1	registry.k8s.io/pause:3.9	"/pause"	2 hours ago	Up 2 hours		k8s_POD_kube-proxy-qqnbs_kube-syst
em_645fb9d0-02a0-4baa-8402-9cc72c67b81c_4	"/pause"	"/pause"	2 hours ago	Up 2 hours		k8s_POD_kube-proxy-qqnbs_kube-syst
2b0a7eb1e9b0	e9adc5c075a8	"kube-apiserver --ad..."	2 hours ago	Up 2 hours		k8s_kube-apiserver_kube-apiserver-
docker-desktop_kube-system	d434b6204d0c098c50c950349b7733a8_4	"kube-scheduler --au..."	2 hours ago	Up 2 hours		k8s_kube-scheduler_kube-scheduler-
b1c18ef36d5b	25903461e65c	"kube-scheduler --au..."	2 hours ago	Up 2 hours		k8s_kube-scheduler_kube-scheduler-
docker-desktop_kube-system	db86d8d97c3e0dd23acb0fbfddb4c858_4	"etcd --advertise-cl..."	2 hours ago	Up 2 hours		k8s_etcd_etcd-docker-desktop_kube-
e54db77b1e9e	2e96e5913fc0	"etcd --advertise-cl..."	2 hours ago	Up 2 hours		k8s_etcd_etcd-docker-desktop_kube-
system_c5b170ff768038eeffed62d1959e63c2_4	"kube-controller-man..."	"kube-controller-man..."	2 hours ago	Up 2 hours		k8s_kube-controller-manager_kube-c
50815d32df44	38406042cf08	"kube-controller-man..."	2 hours ago	Up 2 hours		k8s_kube-controller-manager_kube-c
ontroller-manager-docker-desktop_kube-system	22cc6ce107a02e4a29f59621a1064daf_4	"/pause"	2 hours ago	Up 2 hours		k8s_POD_kube-controller-manager-do
2317982dc6b7	registry.k8s.io/pause:3.9	"/pause"	2 hours ago	Up 2 hours		k8s_POD_kube-controller-manager-do
cker-desktop_kube-system	22cc6ce107a02e4a29f59621a1064daf_4	"/pause"	2 hours ago	Up 2 hours		k8s_POD_kube-controller-manager-do
3d4b011c8a10	registry.k8s.io/pause:3.9	"/pause"	2 hours ago	Up 2 hours		k8s_POD_kube-apiserver-docker-desk
top_kube-system	d434b6204d0c098c50c950349b7733a8_4	"/pause"	2 hours ago	Up 2 hours		k8s_POD_kube-apiserver-docker-desk
7ae3740d83a5	registry.k8s.io/pause:3.9	"/pause"	2 hours ago	Up 2 hours		k8s_POD_kube-scheduler-docker-desk
top_kube-system	db86d8d97c3e0dd23acb0fbfddb4c858_4	"/pause"	2 hours ago	Up 2 hours		k8s_POD_kube-scheduler-docker-desk
1bc8f34e4d74	registry.k8s.io/pause:3.9	"/pause"	2 hours ago	Up 2 hours		k8s_POD_etcd-docker-desktop_kube-s
ystem_c5b170ff768038eeffed62d1959e63c2_4	"/pause"	"/pause"	2 hours ago	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*
  - **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*
  - **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 0.0.0.0:3000->3000/tcp    c1
45dada10bae5   99f89471f470  "/storage-provisione..." 2 hours ago   Up 2 hours    k8s_storage-provisioner_storage-provisione
```

\*\*\*\*\*

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
```

\*\*\*\*\*