

1.1

```
docker run -d --name ng-test nginx
docker run -d --name pg-test postgres
docker run -d --name rd-test redis
```

```
docker stop ng-test
docker stop pg-test
```

```
docker ps
```

```
docker stop rd-test
```

```
docker containers purge
docker images purge
```

```
altyn@Altynsass-MBP task1-3 % docker run -d --name ng-test nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
c229119241af: Pull complete
2215908dc0a2: Pull complete
08c3cb2073f1: Pull complete
18f38162c0ce: Pull complete
10e2168f148a: Pull complete
c4ffe9532b5f: Pull complete
Digest: sha256:2275af0f20d71b293916f1958f8497f987b8d8fd8113df54635f2a5915002bf1
Status: Downloaded newer image for nginx:latest
dabe5bfb8ab21d03c785c1de7a09df206a1ef4721956f0c3459759ce578daefa
altyn@Altynsass-MBP task1-3 % docker run -d --name pg-test postgres
19b422e6ec1e9bea8bbca6ef246b0222af1b4f23339e084b2f04274ec80ea331
altyn@Altynsass-MBP task1-3 % docker run -d --name rd-test redis
Unable to find image 'redis:latest' locally
latest: Pulling from library/redis
c229119241af: Already exists
bed41eb8190a: Pull complete
5e59eaa723f1: Pull complete
fd5ad7669819: Pull complete
566c064eef6e: Pull complete
20c7cfac25de: Pull complete
Digest: sha256:69a3ab2516b560690e37197b71bc61ba245aafef4525ebdece1d8a0bc5669e3e2
Status: Downloaded newer image for redis:latest
7e0a42ef9e5c13f69ea022e9bd7e58cfce175e77c303b0f5cd408b49c46e4448
altyn@Altynsass-MBP task1-3 % docker stop ng-test
ng-test
altyn@Altynsass-MBP task1-3 % docker stop pg-test
pg-test
altyn@Altynsass-MBP task1-3 % docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED              STATUS              PORTS              NAMES
7e0a42ef9e5c   redis     "docker-entrypoint.s..." About a minute ago   Up About a minute   6379/tcp           rd-test
altyn@Altynsass-MBP task1-3 % docker stop rd-test
rd-test
altyn@Altynsass-MBP task1-3 % docker containers purge
docker: 'containers' is not a docker command.
See 'docker --help'
altyn@Altynsass-MBP task1-3 % docker images purge
REPOSITORY    TAG        IMAGE ID      CREATED      SIZE
altyn@Altynsass-MBP task1-3 %
```

1.2

```
docker ps -a
```

```
altyn@Altynsass-MBP task1-3 % docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED              STATUS              PORTS              NAMES
7e0a42ef9e5c   redis     "docker-entrypoint.s..." 2 minutes ago       Exited (0) 30 seconds ago           rd-test
19b422e6ec1e   postgres "docker-entrypoint.s..." 2 minutes ago       Exited (1) 2 minutes ago           pg-test
dabe5bfb8ab2   nginx    "/docker-entrypoint..." 4 minutes ago       Exited (0) 46 seconds ago           ng-test
```

1.3

`docker run -it devopsdockeruh/pull_exercise`

```
[Give me the password: basics
You found the correct password. Secret message is:
"This is the secret message"

altyn@Altynsass-MBP task1-3 %
```

1.4

`docker run -d --rm --name bash-ex devopsdockeruh/exec_bash_exercise`

`docker exec -it bash-ex bash`

```
Unable to find image 'devopsdockeruh/exec_bash_exercise:latest' locally
latest: Pulling from devopsdockeruh/exec_bash_exercise
1c6172af85ee: Pull complete
b194b0e3c928: Pull complete
1f5ec00f35d5: Pull complete
93b1353672b6: Pull complete
3d7f38db3cca: Pull complete
21e102f9fe89: Pull complete
d851ffed797c: Pull complete
a45031e28c68: Pull complete
ca3c1414856f: Pull complete
02c74c9936fd: Pull complete
ddb55f8ab0a8: Pull complete
Digest: sha256:d38b6f6b0eed2880e25c9eb7f83f1cd016ffe3a56c9a3fec6e7bee480bf1ed0f
Status: Downloaded newer image for devopsdockeruh/exec_bash_exercise:latest
5006bbbed92a83e42fb2d272f70d9821b715d5638f8964df9103242f844503681
altyn@Altynsass-MBP task1-3 % docker run -d --rm --name bash-ex devopsdockeruh/exec_bash_exercise
docker: Error response from daemon: Conflict. The container name "/bash-ex" is already in use by c
) that container to be able to reuse that name.
See 'docker run --help'.
altyn@Altynsass-MBP task1-3 % docker exec -it bash-ex bash
root@5006bbbed92a8:/usr/app#
root@5006bbbed92a8:/usr/app#
root@5006bbbed92a8:/usr/app# docker exec -it bash-ex bash
bash: docker: command not found
root@5006bbbed92a8:/usr/app# tail -f ./logs.txt
Thu, 31 Mar 2022 17:35:36 GMT
Thu, 31 Mar 2022 17:35:39 GMT
Secret message is:
"Docker is easy"
Thu, 31 Mar 2022 17:35:45 GMT
Thu, 31 Mar 2022 17:35:48 GMT
Thu, 31 Mar 2022 17:35:51 GMT
Thu, 31 Mar 2022 17:35:54 GMT
Secret message is:
"Docker is easy"
Thu, 31 Mar 2022 17:36:00 GMT
Thu, 31 Mar 2022 17:36:03 GMT
Thu, 31 Mar 2022 17:36:06 GMT
Thu, 31 Mar 2022 17:36:09 GMT
Secret message is:
"Docker is easy"
```

1.5

`docker run -d -it --name name ubuntu`

`docker exec -it name tree`

docker exec -it name bash

```
altyn@Altynsass-MBP task1-3 % docker run -d -it --name name ubuntu
8c481e6e58a809ba0b2a43a1ea9c3db994208cf95930160fbc378e5aad9834a
altyn@Altynsass-MBP task1-3 % docker exec -it name tree
OCI runtime exec failed: exec failed: container_linux.go:380: starting container process caused: exec: "tree": executable file not found in $PATH: unknown
altyn@Altynsass-MBP task1-3 % docker exec -it name bash
root@8c481e6e58a8:/#
```

1.6

docker run -it --entrypoint sh docker-clock

docker run -it --entrypoint sh docker-clock docker build -t docker-clock .

docker build -t docker-clock .

```
altyn@Altynsass-MBP task1-3 % docker build -t docker-clock .
[+] Building 53.8s (4/5)
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 284B
=> [internal] load .dockerignore
=> transferring context: 2B
=> [internal] load metadata for docker.io/devopsdockeruh/overwrite_cmd_exercise:latest
=> [auth] devopsdockeruh/overwrite_cmd_exercise:pull token for registry-1.docker.io
=> [1/1] FROM docker.io/devopsdockeruh/overwrite_cmd_exercise@sha256:02e38f4285d5cfa5ff5ed57ae67a8d9e841027da8f5c972329b4e2b7a47b7d2
=> resolve docker.io/devopsdockeruh/overwrite_cmd_exercise@sha256:02e38f4285d5cfa5ff5ed57ae67a8d9e841027da8f5c972329b4e2b7a47b7d2
=> sha256:4538c6472b5d2a88201c9cd65f43a788e526eb4fa98a4fbae54d5688535cd21 4.34MB / 4.34MB
=> sha256:ef599477fae8e7485cae7d938248dda6358b3af22c7eb4aa592c60771b68dcae 10.79MB / 10.79MB
=> sha256:8d2b62b18494e6912e0f51da39c7d6838f6f04a41d62f6b3f460b301b1e3 8.45KB / 8.45KB
=> sha256:40c38f4285d5cfa5ff5ed57ae67a8d9e841027da8f5c972329b4e2b7a47b7d2 2.84KB / 2.84KB
=> sha256:892586df92068bdc659c497f379e48382aa1b27cf76b2d6a4d262ba7bc19e47b 45.38MB / 45.38MB
=> sha256:434d61467075d127bfedd296aa53abc58e8a3c09a2f238fca1d253b153a17ea 58.07MB / 58.07MB
=> sha256:87f62740b63fefe09e587ab1b377349e94fcb4d64eeab689f8417b5e5a93 95.42MB / 214.63MB
=> sha256:483c771c387e90b121f0d5ff15d311f4b2426270857e085841e82f8a8985fab 4.17KB / 4.17KB
=> extracting sha256:892586df92068bdc659c497f379e48382aa1b27cf76b2d6a4d262ba7bc19e47b
=> sha256:fef6195892aef36aa9469d1f0d0228ea2d9bd974d2664cac9c70baed1b98c6cc 22.24MB / 22.24MB
=> extracting sha256:ef599477fae8e7485cae7d938248dda6358b3af22c7eb4aa592c60771b68dcae
=> extracting sha256:4538c6472b5d2a88201c9cd65f43a788e526eb4fa98a4fbae54d5688535cd21
=> sha256:70e1a68db51721edee839102f0884ae408b996bf734588e9aac86baa8cd1ca4 1.40MB / 1.40MB
=> sha256:c2990b0ef3cb9d5a828c82cf00f1437b216f2d6467867dd31da456ee67352f9d 245B / 245B
=> sha256:657d66faa1fca4085cc400f9f4f6acc8b4de103910b539368ccae91bae377 116B / 116B
=> sha256:446220381e7936f6ec7cd12f0662e33282f7f84854b932724d6e5d0e8eca4d1a3 12.34KB / 12.34KB
=> sha256:27d5208e809cc1ba6ac4c7b411555f34652f2b9e04220180c9f5f74ab0b4f3569 185B / 185B
=> extracting sha256:434d61467075d127bfedd296aa53abc58e8a3c09a2f238fca1d253b153a17ea
=>
```

1.7

```
[altyn@Altynsass-MBP task1-3 % ./s.sh
Input website:
helsinki.fi
Searching..
curl: (6) Could not resolve host: helsinki.fi
altyn@Altynsass-MBP task1-3 %
```

1.8

docker run -v \$(pwd)/app/logs.txt:/usr/app/logs.txt devopsdockeruh/first_volume_exercise

```
altyn@Altynsass-MBP task1-3 % docker run -v $(pwd)/app/logs.txt:/usr/app/logs.txt devopsdockeruh/first_volume_exercise
Wrote to file /usr/app/logs.txt
Wrote to file /usr/app/logs.txt
Wrote to file /usr/app/logs.txt
Wrote to file /usr/app/logs.txt
Wrote to file /usr/app/logs.txt
^CClosing file
altyn@Altynsass-MBP task1-3 %
```

1.9

docker run -p 80:80 devopsdockeruh/ports_exercise

```
altyn@Altynsass-MBP task1-3 % docker run -p 80:80 devopsdockeruh/ports_exercise
```

```
> ports_exercise@1.0.0 start /usr/app  
> node index.js
```

Listening on port 80, this means inside of the container. Use -p to map the port to a port of your local machine.