Container Running

Run a new container	
docker container run [options] IMAGE[:TAG] [COMMAND]	
Options	
--rm	remove container on exit
--name	add container ID
-e	set environment variable
-p	publish container ports to host
--network	connect container to network
--net-alias	network scoped alias for the container
-d	container in background / detached
-it	run interactively
-v=[host-src:]container-dest[:<options>]	Volume
-v $(pwd):/app	map the pwd into the '/app' folder
Start an existing Container	
docker container start [container]	
-a attach	
-i interactive	
Stop a running container	
docker container stop [container]	
Kill a running container	
docker container kill [container]	

Container Management Commands

List containers	
docker container ls	
docker ps old command	
Create a container	
docker container create [OPTIONS] IMAGE	
Remove a container	
docker container rm	
-f force removal of running container	
Remove all stopped containers	
docker container prune	
List processes in specific container	
docker container top [container]	
Show logs on specific container	
docker container logs [container]	
List docker container commands	
docker container	

Container commands

start a new container interactively	
docker container run -it	
Run additional process in running container	
docker container exec CONTAINER [CMD]	
docker container exec -it my_alpine ping my_ubuntu	
docker container run --rm --net bcs alpine nslookup search	
List of ports forwarding traffic from host to container	
docker container port [container]	
Display detailed container information	
docker container inspect	

Management

What version	
docker version	
Configuration values for the docker engine	
docker info	
List of all commands	
docker	

Networks

List network	
docker network ls	
Inspect network	
docker network inspect	
Create a network	
docker network create [network]	
Attach a network to container	
docker network connect [network] [container]	
Detach a network from container	
docker network disconnect [network] [container]	

Images

List images	
docker images [OPTIONS]	
Re-tag an image	
docker image tag SOURCE_IMAGE[:tag] TARGET_IMAGE[:tag]	
Log in to registry (the Docker Hub by default)	
docker login	
Push an image to the registry	
docker push [options] NAME[:TAG]	
Pull an image	
docker pull [options] NAME[:TAG]	
Build an image from a Dockerfile	
docker image build [OPTIONS] PATH	
-t tag	

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Not published yet.
Last updated 25th October, 2018.
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Docker File - image recipies

Set the base image for further instructions

```
FROM <image>[:<tag>]
```

Set environment variables

```
ENV <key>=<value>
```

Set instruction to execute

```
RUN <command> [&& <command>]
```

Set the ports that the container listens on

```
EXPOSE <port> [<port>/<protocol>...]
```

Default command for executing container

```
CMD ["executable", "param1", "param2"]
```

Working directory changed for later instructions

```
WORKDIR /path/to/workdir
```

Copy files

```
COPY [--chown=<user>:<group>] <src>... <dest>
```

Docker Compose

Start system

```
docker-compose up
```

`--build` - rebuild container

`-d` detach/launch in background

Stop and Remove system

```
docker-compose down
```

List containers

```
docker-compose ps
```

Docker Volume

Where does the container keep the volume?

```
docker container inspect [options] CONTAINER
```

Detailed information on one or more volume

```
docker volume inspect [OPTIONS] VOLUME
```

List volumes

```
docker volume ls [OPTIONS]
```

Remove all unused local volumes

```
docker volume prune
```