

# Docker

```
docker ps -a
docker run -it -rm <container> bash
whoami
exit
```

| Command                             | Description           |
|-------------------------------------|-----------------------|
| run <image>[:tag] [command]         | run container/image   |
| <b>Basic</b>                        |                       |
| -it                                 | -interactive and -tty |
| -rm                                 | remove container      |
| -d                                  | run in background     |
| -v [host-folder]:[container-folder] | add volume            |
| stop <name/id>                      |                       |
| <b>Extended</b>                     |                       |
| --name [name]                       | define container name |
| -e <env>, --env-file <env-file>     | add env               |
| -h <hostname>                       | set hostname          |
| -m <memory>                         | set memory limit      |
| --network,=none                     | disable network       |
| stop \$(docker ps -a -q)            | stop all containers   |
| docker rm \$(docker ps -a -q)       | rm all containers     |
| volume rm \$(docker volume ls -q)   | rm all images         |
| <b>Compose</b>                      |                       |
| compose up                          | down [-d]             |
| <b>Others</b>                       |                       |
| search <searchword>                 | search registry       |
| search -f is-official=true <sw>     |                       |
| search -f stars=100 <sw>            |                       |

## Docker commit

```
docker commit [OPTIONS] CONTAINER_ID_OR_NAME [REPOSITORY[:TAG]]
```

|                    |                                 |
|--------------------|---------------------------------|
| -m "message"       | Commit message                  |
| -a "author"        | Author name                     |
| -c: <instructions> | Applies Dockerfile instructions |

| <b>workflow</b>  |  |
|--|--|
| docker ps -a   |  |
| docker commit -m "did something" <current_container> <custom_image:v#> |  |

## Images

```
docker image ls
```

|  |
|--|
| <code>docker image save -o &lt;file&gt; &lt;image:tag&gt;</code> |
| <code>docker image rm &lt;image:tag&gt;</code>                   |
| <code>docker image load -i &lt;file&gt;</code>                   |

## Network

|  |
|--|
| <code>docker network create &lt;name&gt;</code>                                  |
| <code>docker run -itd --network=&lt;name&gt; &lt;image&gt;</code>                |
| <code>docker network create --subnet 10.0.2.0/24 &lt;name&gt;</code>             |
| <code>docker run -itd --network=&lt;name&gt; --ip=10.0.0.69 &lt;image&gt;</code> |