

Lab Experiment – 11

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<u>Implement Docker Container Restart Policy</u>

 Here it is a special container which outputs a message and then exits with code 1 to simulate a crash. Launching an instance using the following command.

\$ docker run -d --name restart-default scrapbook/docker-restart-example 5379f914ea259c7d2c5d80b0637a88549018bfafb215b4f52989340d67875e0e

• List all the containers, including stopped, to see the container has crashed.



 The logs will output a message, which indicates information to diagnose the issue.

```
$ docker logs restart-default
Sun May 2 16:56:52 UTC 2021 Booting up...
```

 Docker will restart the container three times before stopping, in the case below.

```
$ docker run -d --name restart-3 --restart=on-failure:3 scrapbook/docker-restart-example
d619d9568e1382d5d44326b21f3bb509dd2838abf9bccdadb9c2fc8bcb7c5912
$ docker logs restart-3
Sun May 2 16:57:19 UTC 2021 Booting up...
Sun May 2 16:57:20 UTC 2021 Booting up...
Sun May 2 16:57:22 UTC 2021 Booting up...
```

 Using the always flag to automatically restart the container when it crashes

```
$ docker run -d --name restart-always --restart=always scrapbook/docker-restart-example
66120d23b14fd7b67dddadaea0a0d4bfbd875f4322bff28fcae5dddc8615ffad
$ docker logs restart-always
Sun May 2 16:57:30 UTC 2021 Booting up...
Sun May 2 16:57:31 UTC 2021 Booting up...
```

There are **four** types of Restart Policies in **docker**, they are:

- > **no**: The following is by default
- > always: In the following if the container stops it is restarted as soon as the docker daemon reloads.
- > unless-stopped: In the following the container will not restart if it is stopped manually or otherwise even after the docker daemon reloads.
- > on-failure: In the following the container will restart if it exits because of an error.

We give the restart policy to the container while creating it using the **-restart** option.