

## Docker restart policy-On-Failure

**Def-** The container will get restarted if it stops because of an error. Docker won't bring the container up after the daemon restarts.

Lets understand stop with error means

Exit code 0 means no error

Exit code 1 means failed due to error

To understand on-failure restart policy we should stop container with exit code 1

To fail our container at the run time we must create our own container

**Step 1.**create crash.sh

```
#!/bin/bash  
sleep 30  
exit 1
```

The above script just start and sleep for 30 sec and the exit with 1 indicating error

**Step 2.** Build a container

Sudo vim Dockerfile

```
FROM ubuntu:14.04  
ADD crash.sh /  
CMD /bin/bash /crash.sh
```

Run a cmd to generate

```
sudo docker build -t testing_restarts ./
```

```
sudo docker run -d --name testing_restarts testing_restarts
```

Now the container is created and you are able to run created container

**Step 3.** Run the container with On-failure policy

```
sudo docker run -d --name testing_restarts --restart on-failure  
testing_restarts
```

**Step 4.** Monitor the status of running container after every 30 sec it will automatically start when it fails

```
sudo docker ps
```