

# Running a custom script using entrypoint in docker-compose

Asked 7 years, 8 months ago   Modified 4 years, 5 months ago   Viewed 43k times



12



I modified the `docker-compose.yml` file as given on [https://hub.docker.com/\\_/solr/](https://hub.docker.com/_/solr/) by adding a `volumes` configuration and a change in `entrypoint`. The modified file is as given:

```
version: '3'
services:
  solr:
    image: solr
    ports:
      - "8983:8983"
    volumes:
      - ./solr/init.sh:/init.sh
      - ./solr/data:/opt/solr/server/solr/mycores
    entrypoint:
      - init.sh
      - docker-entrypoint.sh
      - solr-precreate
      - mycore
```

I need to run this 'init.sh' before entrypoint starts, to prepare my files inside container.

But I get following errors:

```
ERROR: for solr_solr_1 Cannot start service solr: oci runtime error:
container_linux.go:247: starting container process caused "exec: \"init.sh\": executable
file not found in $PATH"
```

Earlier I found about official image hooks in neo4j from [here](#). Is there a similar thing I can use here also?

**Update 1:** From comments below, I realized that dockerfile set `WORKDIR /opt/solr` due to which `executable file not found in $PATH`. So I tested by providing the absolute path to entrypoint by using `/init.sh`. But this also gives error, but a different one:

```
standard_init_linux.go:178: exec user process caused "exec format error"
```

docker

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edited Jul 20, 2017 at 10:47

asked Jul 20, 2017 at 10:05



Ayushya

10.5k ● 6 ● 42 ● 59

shouldn't it be `./init.sh` ?? – philipp Jul 20, 2017 at 10:13

Thanks, that helped a bit. I tried `./init.sh` and it gave same error but then I tried `/init.sh` and that gives `permission denied` . – Ayushya Jul 20, 2017 at 10:19

- 1 The dockerfile sets `WORKDIR /opt/solr` , so I guess it looks for `init.sh` in that path. – Grimmy Jul 20, 2017 at 10:23

`permission denied` , so you might to make sure that `init.sh` has `+x` in the permissions ( `chmod +x init.sh` ) – philipp Jul 20, 2017 at 10:30

I think thats right, `WORKDIR` may be the reason for `path not found` . So I tried giving absolute path  
Update: My fault @philipp , the `/init.sh` gives `permission denied` when the file was not present. I mounted at wrong place. After mounting correctly, I got `exec format error` . Anyone knows how entrypoint works? – Ayushya Jul 20, 2017 at 10:31

## 2 Answers

Sorted by: Highest score (default)



It looks like you need to map your volume to `/docker-entrypoint-initdb.d/`

10



```
version: '3'
services:
  solr:
    image: solr
    ports:
      - "8983:8983"
    volumes:
      - ./solr/init.sh:/docker-entrypoint-initdb.d/init.sh
      - ./solr/data:/opt/solr/server/solr/mycores
    entrypoint:
      - docker-entrypoint.sh
      - init
```

From

[https://hub.docker.com/\\_/solr/](https://hub.docker.com/_/solr/)

**Extending the image** The docker-solr image has an extension mechanism. At run time, before starting Solr, the container will execute scripts in the `/docker-entrypoint-initdb.d/` directory. You can add your own scripts there either by using mounted volumes or by using a custom Dockerfile. These scripts can for example copy a core directory with pre-loaded data for continuous integration testing, or modify the Solr configuration.

The `docker-entrypoint.sh` seems to be responsible for running the `sh` scripts based on the arguments passed to it. So `init` is the first argument which in turn tries to run `init.sh`

```
docker-compose logs solr | head
```

### Update 1:

I had struggled to get this to work and finally figured out why my docker-compose was not working while the `docker run -v` pointing to the `/docker-entrypoint-initdb.d/init.sh` was working.

It turns out that removing the entrypoint tree was the solution. Here's my final docker-compose:

```
version: '3'
services:
  solr:
    image: solr:6.6-alpine
    ports:
      - "8983:8983"
    volumes:
      - ./solr/data:/opt/solr/server/solr/
      - ./solr/config/init.sh:/docker-entrypoint-initdb.d/init.sh
```

my `./solr/config/init.sh`

```
#!/bin/bash
echo "running"
touch /opt/solr/server/solr/test.txt;
echo "test" > /opt/solr/server/solr/test.txt;
```

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edited Oct 13, 2017 at 2:35

answered Oct 5, 2017 at 18:10



gateblues

826 ● 9 ● 9

I was able find a workaround by including `init.sh` in a script which would run outside the container and then start the container. But this seems better! – [Ayushya](#) Oct 5, 2017 at 18:47

1 sorry I have just tested this and it looks like its not working – [gateblues](#) Oct 5, 2017 at 22:41

I think it should be working after edits. Please check. – [Ayushya](#) Oct 6, 2017 at 3:31



3



An alternative solution that worked for me was modifying entrypoint by placing `/bin/sh`. It looked a bit like this afterwards

```
version: '3'
services:
  web:
    build: .
    volumes:
      - ./code
    entrypoint :
      - /bin/sh
```

```
- ./test.sh
ports:
- "5000:5000"
```

where test.sh is the required bash script to be run inside the container.

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edited Sep 24, 2020 at 11:39



[James Douglas](#)

3,446 ● 2 ● 24 ● 43

answered Jun 9, 2018 at 18:07



[Aditya Gaur](#)

31 ● 1

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