Running a custom script using entrypoint in dockercompose

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



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

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```
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:

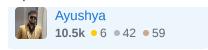
standard_init_linux.go:178: exec user process caused "exec format error"

docker docker-compose docker-entrypoint

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edited Jul 20, 2017 at 10:47

asked Jul 20, 2017 at 10:05



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



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

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```
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/

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 preloaded 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



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



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

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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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answered Jun 9, 2018 at 18:07



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