

## openQA Project - action #91046

### CI: "webui-docker-compose" seems that eventually fails again

2021-04-13 09:08 - ilausuch

<b>Status:</b>	Resolved	<b>Start date:</b>	2021-04-13
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	ilausuch	<b>% Done:</b>	0%
<b>Category:</b>	Concrete Bugs	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Difficulty:</b>			

#### Description

### Motivation

In [#89731](#) we introduced a initial webui container in charge of initializing the database. We have a test where the health check failed [https://github.com/os-autoinst/openQA/pull/3838/checks?check\\_run\\_id=2329551052](https://github.com/os-autoinst/openQA/pull/3838/checks?check_run_id=2329551052)

The problem is that the docker-compose exit with an error because the health check of the webuid\_db\_init container failed

Name	Command	State	Ports
webui_db_1	docker-entrypoint.sh postgres	Up (healthy)	5432/tcp
webui_webui_db_init_1	sh -c chmod -R a+rwX /data ...	Up (unhealthy)	443/tcp, 80/tcp, 0.0.0.0:49153->9526/tcp, 9527/tcp, 9528/tcp, 9529/tcp

```
make: *** [Makefile:306: test-containers-compose] Error 1
```

The healthcheck is this one

<https://github.com/os-autoinst/openQA/blob/abd9a2297430377cd9876c3cbcec8b2cb4302722/container/webui/docker-compose.yaml#L116>

Take in consideration the DB error lines

```
db_1 | 2021-04-13 02:43:08.038 UTC [98] ERROR: relation "api_keys" does not exist at character 15
db_1 | 2021-04-13 02:43:08.038 UTC [98] STATEMENT: select * from api_keys;
db_1 | 2021-04-13 02:43:10.441 UTC [100] ERROR: relation "dbix_class_deploymenthandler_versions" does not exist at character 24
db_1 | 2021-04-13 02:43:10.441 UTC [100] STATEMENT: SELECT me.version FROM dbix_class_deploymenthandler_versions me ORDER BY id DESC LIMIT $1
db_1 | 2021-04-13 02:43:10.446 UTC [100] ERROR: relation "dbix_class_deploymenthandler_versions" does not exist at character 24
```

### Acceptance criteria

- **AC 1:** Determine the cause of the failure
- **AC 2:** Fix the problem

#### Related issues:

Related to openQA Project - action #89731: containers: The deploy using docke...	Resolved	2021-03-09	
Related to openQA Project - action #90614: CI test webui-docker-compose faile...	Resolved	2021-04-01	2021-04-23

#### History

#1 - 2021-04-13 09:18 - ilausuch

- Description updated

#2 - 2021-04-13 09:22 - ilausuch

- Description updated

### #3 - 2021-04-13 09:23 - ilausuch

- Related to action #89731: containers: The deploy using docker-compose is not stable and eventually fails added

### #4 - 2021-04-13 10:06 - ilausuch

Some discoveries

We have in the healthcheck for the DB (

<https://github.com/os-autoinst/openQA/blob/abd9a2297430377cd9876c3cbcec8b2cb4302722/container/webui/docker-compose.yml#L133>)

```
select * from api_keys;' | psql -U openqa openqa
```

This check is not valid because we don't have an error code != 0

```
{"Status":"unhealthy","FailingStreak":0,"Log":[{"Start":"2021-04-13T12:01:03.499631783+02:00","End":"2021-04-13T12:01:03.698939023+02:00","ExitCode":0,"Output":"ERROR: relation \"api_keys\" does not exist\nLINE 1: select * from api_keys;\n                ^\n"}]}
```

Then in spite of this error, the healthcheck is OK, and docker-compose continues with all the rest of the script.

However, this is a undetected death lock because this table cannot exist until the webui\_init starts, and the webui\_init cannot start until DB has this table. So the further solution is:

- Change the healthcheck to something correct for the defined workflow
- Check if healthchecks are used on dependences

### #5 - 2021-04-13 11:44 - ilausuch

More investigation

I discovered that the psql doesn't generate an exit 1 when the SQL command fails

```
root@cd6126e970f3:/# echo 'select * from api_keys2;' | psql -U openqa openqa
ERROR: relation "api_keys2" does not exist
LINE 1: select * from api_keys2;
                ^
root@cd6126e970f3:/# echo $?
0
```

### #6 - 2021-04-13 11:56 - ilausuch

I created this PR <https://github.com/os-autoinst/openQA/pull/3840>

### #7 - 2021-04-13 12:02 - ilausuch

In spite of the sequence seems correct now I am getting the same DB errors

```
db_1 | 2021-04-13 12:00:30.838 UTC [75] LOG: database system was shut down at 2021-04-13 12:00:30 UTC
db_1 | 2021-04-13 12:00:30.843 UTC [1] LOG: database system is ready to accept connections
db_1 | 2021-04-13 12:00:32.556 UTC [83] ERROR: relation "dbix_class_deploymenthandler_versions" does not exist at character 24
db_1 | 2021-04-13 12:00:32.556 UTC [83] STATEMENT: SELECT me.version FROM dbix_class_deploymenthandler_versions me ORDER BY id DESC LIMIT $1
db_1 | 2021-04-13 12:00:32.559 UTC [83] ERROR: relation "dbix_class_deploymenthandler_versions" does not exist at character 24
db_1 | 2021-04-13 12:00:32.559 UTC [83] STATEMENT: SELECT COUNT( * ) FROM dbix_class_deploymenthandler_versions me
db_1 | 2021-04-13 12:00:52.597 UTC [137] ERROR: relation "mojo_migrations" does not exist at character 21
db_1 | 2021-04-13 12:00:52.597 UTC [137] STATEMENT: SELECT version FROM mojo_migrations WHERE name = $1
```

I am not sure if this is directly related. However seems doesn't affect to the docker-composer workflow

Name	Command	State	Ports
webui_db_1	docker-entrypoint.sh postgres	Up (healthy)	5432/tcp
webui_gru_1	sh -c /root/run_openqa.sh  ...	Up (healthy)	443/tcp, 80/tcp, 9526/tcp, 9527/tcp, 9528/tcp, 9529/tcp
webui_livehandler_1	/root/run_openqa.sh	Up (healthy)	443/tcp, 80/tcp, 9526/tcp, 9527/tcp, 0.0.0.0:9528->9528/tcp, 9529/tcp
webui_nginx_1	/entrypoint.sh	Up (healthy)	0.0.0.0:9526->9526/tcp
webui_scheduler_1	/root/run_openqa.sh	Up (healthy)	443/tcp, 80/tcp, 9526/tcp, 9527/tcp, 9

```
528/tcp, 9529/tcp
webui_websockets_1    /root/run_openqa.sh      Up (healthy)  443/tcp, 80/tcp, 9526/tcp, 0.0.0.0:952
7->9527/tcp, 9528/tcp, 9529/tcp
webui_webui_1        /root/run_openqa.sh      Up (healthy)  443/tcp, 80/tcp, 0.0.0.0:32793->9526/t
cp, 9527/tcp, 9528/tcp, 9529/tcp
webui_webui_2        /root/run_openqa.sh      Up (healthy)  443/tcp, 80/tcp, 0.0.0.0:32792->9526/t
cp, 9527/tcp, 9528/tcp, 9529/tcp
webui_webui_db_init_1  sh -c chmod -R a+rwX /data ... Up (healthy)  443/tcp, 80/tcp, 0.0.0.0:32791->9526/t
cp, 9527/tcp, 9528/tcp, 9529/tcp
```

#### #8 - 2021-04-13 15:20 - ilausuch

- Related to action #90614: CI test webui-docker-compose failed but PR was merged anyway added

#### #9 - 2021-04-14 07:20 - cdywan

ilausuch wrote:

I created this PR <https://github.com/os-autoinst/openQA/pull/3840>

PR got merged

[ilausuch](#) The ticket is still *New*, did you want to update that?

#### #10 - 2021-04-14 07:25 - ilausuch

- Status changed from *New* to *Resolved*