openQA Project - action #71536

Unhandled perl warnings in t/ui/15-admin-workers.t, not failing tests as expected (possibly other test modules as well)

2020-09-18 18:07 - okurz

Status:	Resolved		**Start date:**	2020-09-18
Priority:	Normal		**Due date:**	
Assignee:	mkittler		**% Done:**	0%
Category:	Feature requests		**Estimated time:**	0.00 hour
Target version:	Ready			
Difficulty:				

Description

Observation

t/ui/15-admin-workers.t shows perl warnings but still succeeds, e.g.:

```
$ prove -l t/ui/15-admin-workers.t
t/ui/15-admin-workers.t .. 1/? Use of uninitialized value in pattern match (m//) at /home/okurz/lo
cal/os-autoinst/openQA/lib/OpenQA/WebAPI/Controller/Admin/Workers.pm line 28.
Use of uninitialized value in pattern match (m//) at /home/okurz/local/os-autoinst/openQA/lib/Open
QA/WebAPI/Controller/Admin/Workers.pm line 28.
Use of uninitialized value in pattern match (m//) at /home/okurz/local/os-autoinst/openQA/lib/Open
QA/WebAPI/Controller/Admin/Workers.pm line 28.
t/ui/15-admin-workers.t .. 7/? Use of uninitialized value in pattern match (m//) at /home/okurz/lo
cal/os-autoinst/openQA/lib/OpenQA/WebAPI/Controller/Admin/Workers.pm line 28.
t/ui/15-admin-workers.t .. ok
All tests successful.
Files=1, Tests=19, 13 wallclock secs ( 0.04 usr  0.00 sys +  1.98 cusr  0.22 csys =  2.24 CPU)
Result: PASS
```

This is also visible in circleci even though even less obvious.
https://app.circleci.com/pipelines/github/os-autoinst/openQA/4264/workflows/c03c8397-a61e-481c-afbb-8c8839a69e9a/jobs/40889/steps is green and there is no warning visible in the log output however
https://app.circleci.com/pipelines/github/os-autoinst/openQA/4264/workflows/c03c8397-a61e-481c-afbb-8c8839a69e9a/jobs/40889/artifacts references https://40889-20883829-gh.circle-artifacts.com/0/artifacts/ui/15-admin-workers.t which shows the same warnings as above.

Our test code uses use Test::Warnings ':report_warnings'; but to no avail. I also crosschecked if maybe Test::Warnings in a newer version is the problem itself but the problem reproduces with perl-Test-Warnings-0.026

Expected result

- Tests should fail if there is any warning, regardless of the source

Problem

This could be related to the fact that we start the SeleniumDriver in a background process and the warning might come from there. Introducing an artificial warning in the main thread is correctly handled.

Suggestions

- Try to narrow down the source of the problem and identify from which process the warning comes
- Extend the existing approach to handle warnings or find a different approach for all background processes, e.g. compare to https://github.com/os-autoinst/os-autoinst/pull/1497

History

#1 - 2020-09-25 08:40 - mkittler

- Assignee set to mkittler

#2 - 2020-09-25 09:28 - mkittler

- Status changed from Workable to In Progress

PR for fixing the warning itself: https://github.com/os-autoinst/openQA/pull/3422

> Try to narrow down the source of the problem and identify from which process the warning comes

Here the warning comes indeed from a sub process. In this case it is the web UI but we generally wouldn't catch warnings in any sub processes (which are usually spawned by the test helpers create_webapi, create_websocket_server, create_scheduler and create_live_view_handler).

> Extend the existing approach to handle warnings …

That would be possible, see https://github.com/os-autoinst/openQA/pull/3423 for a draft. However, it isn't a clear improvement so far (see the PR description) so I'm still trying to improve it.

#3 - 2020-09-28 13:08 - mkittler

- Status changed from In Progress to Resolved

I've improved the PR. It still isn't optimal (see https://github.com/os-autoinst/openQA/pull/3423#issuecomment-699896044) but at least warnings will be catched now in sub processes and the main test will fail and stop if that's the case.