

openQA Project - action #70873

Test fails because auto_review:"Encoder not accepting data":retry, video is missing

2020-09-02 15:41 - mkittler

Status:	Resolved	Start date:	2020-09-02
Priority:	Low	Due date:	2020-11-14
Assignee:	okurz	% Done:	0%
Category:	Concrete Bugs	Estimated time:	0.00 hour
Target version:	Ready		
Difficulty:			

Description

Observation

It looks like the videoencoder could not be started or got stuck before it could create the video file:

```
[0m[37m[2020-09-02T04:31:14.339 CEST] [debug] Backend process died, backend errors are reported below in the following lines:
```

```
Encoder not accepting data at /usr/lib/os-autoinst/backend/baseclass.pm line 157.
```

```
[0m[33m[2020-09-02T04:31:14.341 CEST] [info] ::: OpenQA::Qemu::Proc::save_state: Saving QEMU state to qemu_state.json
```

```
[0m[37m[2020-09-02T04:31:16.395 CEST] [debug] Passing remaining frames to the video encoder
```

```
[0m[37m[2020-09-02T04:31:16.395 CEST] [debug] Unable to pass remaining frames to video encoder: Encoder not accepting data at /usr/lib/os-autoinst/backend/baseclass.pm line 157.
```

```
[0m[37m[2020-09-02T04:31:16.395 CEST] [debug] Waiting for video encoder to finalize the video
```

```
[0m[37m[2020-09-02T04:31:16.395 CEST] [debug] The built-in video encoder (pid 7856) terminated
```

job reference: <https://openqa.suse.de/tests/4628195>

Steps to reproduce

- Look for references of this ticket detected on o3 and osd:

```
for i in o3 osd; do ssh $i "sudo -u geekotest psql openqa -c \"select jobs.id,t_finished,state,result,test,reason,host from jobs, comments, workers where t_finished >= '2020-01-01' and jobs.assigned_worker_id = workers.id and jobs.id = comments.job_id and comments.text ~ 'poo#70873' order by t_finished desc limit 20;\""; done
```

Suggestions

- ~~DONE: Let's see whether it happens more often. Maybe the error handling when starting the video encoder could be improved.~~ yes, happened multiple times on both o3 and osd
- Check our test code coverage for the code in question, e.g. backend/baseclass.pm line 157
- Try to simulate failures in local tests, e.g. kill video encoder while a test is running
- Improve the error handling, e.g. extend the die message to inform about if the corresponding process is still there, etc.

Related issues:

Related to openQA Project - action #67342: Support using a "generic" video en...	Resolved	2020-05-27
Related to openQA Infrastructure - coordination #68923: [epic] Use external v...	Blocked	2020-11-13
Copied to openQA Project - action #81002: Test incompletes with auto_review:"...	New	

History

#1 - 2020-09-02 16:58 - okurz

- Related to action #67342: Support using a "generic" video encoder like ffmpeg instead of only relying on the one provided by os-autoinst itself added

#2 - 2020-09-02 16:59 - okurz

- Related to coordination #68923: [epic] Use external videoencoder in production auto_review:"External encoder not accepting data" added

#3 - 2020-09-02 17:01 - okurz

- Category set to Concrete Bugs
- Target version set to Ready

I added the two related tickets regarding "external encoder" not assuming that any external encoder is used but that related code changes could have caused this.

#4 - 2020-09-02 17:05 - okurz

- Subject changed from Test fails because auto_review:"Encoder not accepting data", video is missing to Test fails because auto_review:"Encoder not accepting data":retry, video is missing

retriggered jobs seem fine, e.g. <https://openqa.suse.de/admin/workers/669> and <https://openqa.suse.de/tests/4629502> are ok

#5 - 2020-09-03 13:57 - mkittler

but that related code changes could have caused this

It looks more like the video encoder couldn't be started in the first place or failed very early after startup. Unfortunately we don't have good error handling when starting the video encoder.

Note that my changes for the external video encoder mainly did more of the same but did not change the way the video encoder is launched. And yes, the final "Unable to pass remaining frames to video encoder" messages comes from my code but it is just logged after the stack has already started to terminate due to the previous "Encoder not accepting data" error (which is recorded as reason).

#6 - 2020-10-11 09:18 - okurz

- Description updated
- Status changed from New to Feedback
- Assignee set to okurz

I conducted the DB search that I added to the ticket description to find further occurrences and found

on o3 and osd (in this order):

id	t_finished	state	result	test	host	reason
1409732	2020-09-28 01:12:01	done	incomplete	gnome	openqaworker4	backend died: Encoder not accepting data at /usr/lib/os-autoinst/backend/baseclass.pm line 157.

(1 row)

id	t_finished	state	result	test	host	reason
4744792	2020-09-29 00:20:34	done	incomplete	mru-iscsi_client_normal_auth_backstore_fileio	openqaworker6	backend died: Encoder not accepting data at /usr/lib/os-autoinst/backend/baseclass.pm line 157.
4742850	2020-09-28 00:29:22	done	incomplete	qam-rsync-client	openqaworker5	backend died: Encoder not accepting data at /usr/lib/os-autoinst/backend/baseclass.pm line 157.
4628195	2020-09-02 02:31:20	done	incomplete	mau-qa_kernel_lynis	openqaworker5	backend died: Encoder not accepting data at /usr/lib/os-autoinst/backend/baseclass.pm line 157.

(3 rows)

One example is <https://openqa.opensuse.org/tests/1409732> with log details:

```
[0m[2020-09-28T03:11:04.065 CEST] [debug] tests/installation/bootloader.pm:57 called bootloader_setup::bootmen
u_default_params -> lib/bootloader_setup.pm:478 called bootloader_setup::type_boot_parameters -> lib/bootloade
r_setup.pm:1330 called testapi::type_string
[2020-09-28T03:11:04.065 CEST] [debug] <<< testapi::type_string(string=" Y2DEBUG=1 vga=791 video=1024x768 ply
mouth.ignore-serial- consoles console=ttyS0 console=tty linuxrc.log=/dev/ttyS0 linuxrc.core=/dev/ttyS0 linuxrc.
debug=4,trace reboot_timeout=0 ", max_interval=4, wait_screen_changes=0, wait_still_screen=0, timeout=30, sim
ilarity_level=47)
[37m[2020-09-28T03:11:56.918 CEST] [debug] Backend process died, backend errors are reported below in the foll
owing lines:
Encoder not accepting data at /usr/lib/os-autoinst/backend/baseclass.pm line 157.
```

Notice the timestamp difference between mm:ss 11:04.1 and mm:ss 11:56.9 .
The relevant code in backend/baseclass.pm is:

```
sub _write_buffered_data_to_file_handle {
    my ($self, $program_name, $array_of_buffers, $fh) = @_;

    # write as much data as possible (this is called when $fh is ready to write)
    my $data      = shift @$array_of_buffers;
    my $data_written = $fh->syswrite($data);
    die "$program_name not accepting data" unless defined $data_written;

    # put remaining data it back into the queue
    unshift @$array_of_buffers, substr($data, $data_written) unless $data_written == length($data);
}
```

What we could do is check the status of the videoencoder process, e.g. output the PID and check if the process is still running.
Note that "Encoder" means the internal encoder, different than "External encoder" which we would see if any custom configurable video encoder would fail here.

I found out that syswrite sets the errno variable in case of errors, see <https://perldoc.perl.org/functions/syswrite> . So we should output this to have more details in the case of problems:
<https://github.com/os-autoinst/os-autoinst/pull/1550>

#7 - 2020-10-12 11:24 - okurz

- Due date set to 2020-11-14
- Priority changed from Normal to Low

PR merged. I guess we should wait couple of weeks and check if we see the error recorded. Then we might have more information.

#8 - 2020-11-04 17:38 - okurz

- Status changed from Feedback to Resolved

```
$ for i in o3 osd; do ssh $i "sudo -u geekotest psql openqa -c \"select jobs.id,t_finished,state,result,test,reason,host from jobs, comments, workers where t_finished >= '2020-01-01' and jobs.assigned_worker_id = workers.id and jobs.id = comments.job_id and comments.text ~ 'poo#70873' order by t_finished desc limit 20;\""; done
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4628195	2020-09-02 02:31:20	done	incomplete	mau-qa_kernel_lynis	backend died: Encoder not accepting data at /usr/lib/os-autoinst/backend/baseclass.pm line 157. openqaworker5

(3 rows)

so no more occurrences since more than a month

#9 - 2020-12-11 19:33 - okurz

- Copied to action #81002: Test incompletes with auto_review:"(?s)openqa.suse.de.*Encoder not accepting data.*Uploading video":retry but video is there added