openQA Tests - action #48671
[opensuse] save_memory_dump make isotovideo to fail
05/03/2019 07:50 am - ggardet_arm

<table>
<thead>
<tr>
<th>Status:</th>
<th>Resolved</th>
<th>Start date:</th>
<th>05/03/2019</th>
</tr>
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<tr>
<td>Priority:</td>
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<td>Due date:</td>
<td></td>
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<tr>
<td>Assignee:</td>
<td>okurz</td>
<td>% Done:</td>
<td>0%</td>
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<tr>
<td>Category:</td>
<td>Bugs in existing tests</td>
<td>Estimated time:</td>
<td>0.00 hour</td>
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<td>Target version:</td>
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<td>Difficulty:</td>
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Description

On [https://openqa.opensuse.org/tests/869018](https://openqa.opensuse.org/tests/869018) where firstboot test fails (probably due to some wayland crash), save_memory_dump is called, but fails with sysread failed: after memory dump completed.

Selecting root console works though, but export_logs() is not called.

Log:

```
[2019-03-04T21:27:40.169 CET] [debug] Trying to save machine state
[2019-03-04T21:27:40.169 CET] [debug] EVENT
{"data":{"path":"/machine/peripheral-anon/device[1]/virtio-backend"},"event":"NIC_RX_FILTER_CHANGED","timestamp":{"microseconds":550666,"seconds":1551727612}}
[2019-03-04T21:27:40.171 CET] [debug] EVENT
{"data":{"client":{"family":"ipv4","host":"127.0.0.1","service":"43196"},"websocket":false},"server":{"auth":null,"family":"ipv4","host":"127.0.0.1","service":"44264"},"websocket":false},"event":"VNC_CONNECTED","timestamp":{"microseconds":551728259}}
[2019-03-04T21:27:40.171 CET] [debug] EVENT
{"data":{"client":{"family":"ipv4","host":"127.0.0.1","service":"43196"},"websocket":false},"server":{"auth":null,"family":"ipv4","host":"127.0.0.1","service":"44072"},"websocket":false},"event":"VNC_DISCONNECTED","timestamp":{"microseconds":551728259}}
[2019-03-04T21:27:40.172 CET] [debug] EVENT
{"data":{"client":{"family":"ipv4","host":"127.0.0.1","service":"43822"},"websocket":false},"server":{"auth":null,"family":"ipv4","host":"127.0.0.1","service":"44222"},"websocket":false},"event":"VNC_CONNECTED","timestamp":{"microseconds":551728259}}
[2019-03-04T21:27:40.172 CET] [debug] EVENT
{"data":{"client":{"family":"ipv4","host":"127.0.0.1","service":"43822"},"websocket":false},"server":{"auth":null,"family":"ipv4","host":"127.0.0.1","service":"44030"},"websocket":false},"event":"VNC_DISCONNECTED","timestamp":{"microseconds":551728259}}
[2019-03-04T21:27:40.172 CET] [debug] EVENT
{"data":{"client":{"family":"ipv4","host":"127.0.0.1","service":"43822"},"websocket":false},"server":{"auth":null,"family":"ipv4","host":"127.0.0.1","service":"44030"},"websocket":false},"event":"VNC_CONNECTED","timestamp":{"microseconds":551728259}}
[2019-03-04T21:27:40.172 CET] [debug] EVENT
{"data":{"client":{"family":"ipv4","host":"127.0.0.1","service":"43196"},"websocket":false},"server":{"auth":null,"family":"ipv4","host":"127.0.0.1","service":"43196"},"websocket":false},"event":"VNC_INITIALIZED","timestamp":{"microseconds":551728259}}
[2019-03-04T21:27:40.172 CET] [debug] EVENT
{"data":{"client":{"family":"ipv4","host":"127.0.0.1","service":"43822"},"websocket":false},"server":{"auth":null,"family":"ipv4","host":"127.0.0.1","service":"44030"},"websocket":false},"event":"VNC_INITIALIZED","timestamp":{"microseconds":551728259}}
```

"[2019-03-04T21:27:40.172 CET] [debug] Trying to save machine state"

"[2019-03-04T21:27:40.169 CET] [debug] Trying to save machine state"

"[2019-03-04T21:27:40.172 CET] [debug] EVENT
{"data":{"path":"/machine/peripheral-anon/device[1]/virtio-backend"},"event":"NIC_RX_FILTER_CHANGED","timestamp":{"microseconds":550666,"seconds":1551727612}}"

"sysread failed: after memory dump completed."

""export_logs() where firstboot is not called."

"test fails (probably due to some wayland crash), save_memory_dump is called, but fails with sysread failed: after memory dump completed. Selecting root console works though, but export_logs() is not called."
04/04/2020
first_boot::post_fail_hook(first_boot=HASH(0xaaaafce9bb18)) called at /usr/lib/os-autoinst/basetest.pm line 324
eval {...} called at /usr/lib/os-autoinst/basetest.pm line 324
basetest::run_post_fail(first_boot=HASH(0xaaaafce9bb18), "test first_boot died") called at /usr/lib/os-autoinst/basetest.pm line 377
basetest::runtest(first_boot=HASH(0xaaaafce9bb18)) called at /usr/lib/os-autoinst/autotest.pm line 364
eval {...} called at /usr/lib/os-autoinst/autotest.pm line 364
autotest::runalltests() called at /usr/lib/os-autoinst/autotest.pm line 221
eval {...} called at /usr/lib/os-autoinst/autotest.pm line 221
autotest::run_all() called at /usr/lib/os-autoinst/autotest.pm line 274
autotest::__ANON__((Mojo::IOLoop::ReadWriteProcess=HASH(0xaaaafdf4855d8)) called at
/usr/lib/perl5/vendor_perl/5.26.1/Mojo/IOLoop/ReadWriteProcess.pm line 325
eval {...} called at /usr/lib/perl5/vendor_perl/5.26.1/Mojo/IOLoop/ReadWriteProcess.pm line 325
Mojo::IOLoop::ReadWriteProcess::fork((Mojo::IOLoop::ReadWriteProcess=HASH(0xaaaafdf4855d8), CODE(0xaaaafdf49e9f8))
called at /usr/lib/perl5/vendor_perl/5.26.1/Mojo/IOLoop/ReadWriteProcess.pm line 476
Mojo::IOLoop::ReadWriteProcess::start((Mojo::IOLoop::ReadWriteProcess=HASH(0xaaaafdf4855d8)) called at
/usr/lib/os-autoinst/autotest.pm line 275
autotest::start_process() called at /usr/bin/isotovideo line 296
myjsonrpc::send_json(GLOB(0xaaaafb7cb6b8), HASH(0xaaaafdf9bb0)) called at /usr/lib/os-autoinst/autotest.pm line 320
autotest::query_isotovideo("set_current_test", HASH(0xaaaafdf9bb0)) called at /usr/lib/os-autoinst/autotest.pm line 181
autotest::set_current_test(undef) called at /usr/lib/os-autoinst/basetest.pm line 288
basetest::fail_if_running(first_boot=HASH(0xaaaafce9bb18)) called at /usr/lib/os-autoinst/basetest.pm line 327
basetest::run_post_fail(first_boot=HASH(0xaaaafce9bb18), "test first_boot died") called at /usr/lib/os-autoinst/basetest.pm line 377
basetest::runtest(first_boot=HASH(0xaaaafce9bb18)) called at /usr/lib/os-autoinst/autotest.pm line 364
eval {...} called at /usr/lib/os-autoinst/autotest.pm line 364
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autotest::run_all() called at /usr/lib/os-autoinst/autotest.pm line 274
autotest::__ANON__((Mojo::IOLoop::ReadWriteProcess=HASH(0xaaaafdf4855d8)) called at
/usr/lib/perl5/vendor_perl/5.26.1/Mojo/IOLoop/ReadWriteProcess.pm line 325
eval {...} called at /usr/lib/perl5/vendor_perl/5.26.1/Mojo/IOLoop/ReadWriteProcess.pm line 325
Mojo::IOLoop::ReadWriteProcess::fork((Mojo::IOLoop::ReadWriteProcess=HASH(0xaaaafdf4855d8), CODE(0xaaaafdf49e9f8))
called at /usr/lib/perl5/vendor_perl/5.26.1/Mojo/IOLoop/ReadWriteProcess.pm line 476
Mojo::IOLoop::ReadWriteProcess::start((Mojo::IOLoop::ReadWriteProcess=HASH(0xaaaafdf4855d8)) called at
/usr/lib/os-autoinst/autotest.pm line 275
autotest::start_process() called at /usr/bin/isotovideo line 296
[2019-03-04T21:27:44.041 CET] [debug] [autotest] process exited: 0
[2019-03-04T21:27:44.041 CET] [debug] done with autotest process
[2019-03-04T21:27:45.041 CET] [debug] isotovideo failed
[2019-03-04T21:27:45.043 CET] [debug] killing backend process 32939
[2019-03-04T21:27:45.043 CET] [debug] done with backend process 32933: EXIT 1
[2019-03-04T21:27:45.0282 CET] [info] Isotovideo exit status: 1

Related issues:
- Related to openQA Infrastructure - action # 55505: lots of incompletes on o3...
- Resolved 14/08/2019
- Related to openQA Tests - action # 42683: [functional][u] Make save_memory_du...
- Feedback 12/01/2018
- Related to openQA Tests - action # 55595: [cloud][pcm] debug memory dump - pl...
- Resolved 15/08/2019
- Blocks openQA Tests - action # 48383: [opensuse] test fails in first_boot - d...
- Rejected 25/02/2019
- Blocks openQA Tests - action # 53192: [opensuse] bootbasetest - Undefined sub...
- New 17/06/2019
#1 - 05/03/2019 11:57 am - okurz
- Blocks action #48383: [opensuse] test fails in first_boot - does not login in GDM added

#2 - 06/03/2019 10:28 am - SLindoMansilla
- Category set to Spike/Research

As a result of backlog triaging (see https://progress.opensuse.org/projects/openqatests/wiki#ticket-backlog-triaging for more information).

Please, feel free to adjust the category if you think different.

#3 - 16/04/2019 03:48 pm - ggardet_arm

Another occurrence: https://openqa.opensuse.org/tests/909526#step/first_boot/19

#4 - 18/06/2019 07:15 am - ggardet_arm

- Blocks action #53192: [opensuse] bootbasetest - Undefined subroutine &bootbasetest::export_logs added

#5 - 18/06/2019 07:19 am - ggardet_arm

Another occurrence: https://openqa.opensuse.org/tests/961187

[2019-06-16T15:56:38.769 CEST] [debug] Migrating the machine (Current VM state is running).
[2019-06-16T15:56:38.793 CEST] [debug] EVENT {"event":"STOP","timestamp":{"microseconds":792862,"seconds":1560693398}}
[2019-06-16T15:56:38.815 CEST] [debug] EVENT
{"data":{"status":"setup"},"event":"MIGRATION","timestamp":{"microseconds":815366,"seconds":1560693398}}
{"data":{"pass":1},"event":"MIGRATION_PASS","timestamp":{"microseconds":817443,"seconds":1560693398}}
{"data":{"status":"active"},"event":"MIGRATION","timestamp":{"microseconds":817581,"seconds":1560693398}}
[2019-06-16T15:56:40.320 CEST] [debug] Migrating total bytes: 2281992192
[2019-06-16T15:56:40.320 CEST] [debug] Migrating remaining bytes: 953995264
[2019-06-16T15:56:41.824 CEST] [debug] EVENT
{"data":{"pass":2},"event":"MIGRATION_PASS","timestamp":{"microseconds":369398,"seconds":1560693401}}
[2019-06-16T15:56:41.824 CEST] [debug] EVENT
{"data":{"pass":3},"event":"MIGRATION_PASS","timestamp":{"microseconds":370524,"seconds":1560693401}}
[2019-06-16T15:56:41.824 CEST] [debug] EVENT
{"data":{"status":"completed"},"event":"MIGRATION","timestamp":{"microseconds":428071,"seconds":1560693401}}
[2019-06-16T15:56:41.824 CEST] [debug] Migrating remaining bytes: 0
I suspect the problem is once dump file compression is done, the file is removed, but QEMU is still restoring the RAM from this file. So, I will test with --keep option for xz/bzip2.

Adding --keep option to xz/bzip2 does not help. Moving the cont_vm call later either. The problem is encountered once/after the cont_vm function is called. I do not know where exactly, but once isotovideo fails, qemu is still running. So, this is probably an internal isotovideo process which fails.

The read failure is from: https://github.com/os-autoinst/os-autoinst/blob/927f3d85e5440290d6aaa294b88c81a319abb99f/isotovideo#L398

Not sure why there is nothing to read, though. Any idea?

I tried to freeze the VM before migration, but it did not help. I am running out of idea.

- Related to action #55505: lots of incompletes on o3, "qemu-system-x86_64: --vnc :91,share=force-shared: Failed to find an available port: Address already in use", maybe only openqaworker4:1? added

- Subject changed from [aarch64] save_memory_dump make isotovideo to fail to [opensuse] save_memory_dump make isotovideo to fail
- Category changed from Spike/Research to Bugs in existing tests
created https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/8202 to prevent save_memory_dump causing more incompletes. Fails also on x86_64 e.g. https://openqa.opensuse.org/tests/1003323/file/autoinst-log.txt

#13 - 14/08/2019 07:00 pm - okurz

https://openqa.opensuse.org/tests/1007345# is another example, merged the PR.

Monitoring:

- https://openqa.opensuse.org/tests/1007890
- https://openqa.opensuse.org/tests/1007891
- https://openqa.opensuse.org/tests/1007892
- https://openqa.opensuse.org/tests/1007893
- https://openqa.opensuse.org/tests/1007894

#14 - 19/08/2019 09:08 am - cfconrad

- Related to action #55595: [cloud][pcm] debug memory dump - placeholder added

#15 - 19/08/2019 09:17 am - cfconrad

Related change in os-autoinst: https://github.com/os-autoinst/os-autoinst/pull/1201

#16 - 02/09/2019 12:08 pm - andriinikitin

(comment deleted)

#17 - 23/09/2019 12:44 pm - szarate

Memory dumps are working again: https://openqa.suse.de/tests/3393456#step/first_boot/14 I guess Clemen's changes fixed the problem, so I re-enabled it.

#18 - 23/09/2019 08:46 pm - okurz

- Status changed from Feedback to Resolved

Sure, but I would be a bit more careful, e.g. check on aarch64 and such. However, this ticket was about "save_memory_dump" makes tests fail which it didn't after I disabled it. That part is done :)