

openQA Tests - coordination #44843

[qe-core][functional][epic] Cleanup the use of serial-/virtio-/ssh-consoles in our tests (was: use \$self->select_serial_terminal instead of checking IPMI in every module)

2018-12-06 10:35 - okurz

Status:	New	Start date:	2018-12-13
Priority:	Normal	Due date:	
Assignee:		% Done:	50%
Category:	Enhancement to existing tests	Estimated time:	0.00 hour
Target version:	future		
Difficulty:			

Description

Motivation

https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/6032#discussion_r239122846

or: Reduce if/else on architecture or backend just so select whatever console is the most reliable one

Acceptance criteria

- **AC1:** No more if/else on architecture or backend just for console selection in test modules

Suggestions

- git grep 'BACKEND.*ipmi.*select_console' for a start, or look for 'root-ssh' or use_ssh_serial_console

Subtasks:

action # 45143: Suppress the prompt sign in the "expected output" of serial consoles (o...

Rejected

action # 45146: [qe-core][functional] Replace wrappers of wrappers for consoles with pr...

New

Related issues:

Related to openQA Project - action #36457: Implement serial terminal console ...	Resolved	2018-05-23
Related to openQA Tests - action #13914: [qe-core][functional][ipmi] wait_ser...	New	2016-09-27
Related to openQA Tests - action #44888: [qam][ppc64le] test fails in sshd - ...	Rejected	2018-12-07
Related to openQA Project - action #12398: hide echoing to serial port in tes...	New	2016-06-19
Related to openQA Tests - coordination #38819: [qe-core][tools][functional][e...	Workable	2019-02-17
Related to openQA Tests - action #44138: [functional][u][userspace] tests in ...	Resolved	2018-11-21
Related to openQA Tests - action #45842: [all] select_serial_terminal on qemu...	Rejected	2019-01-09
Blocks openQA Tests - action #34699: [qe-core][functional][ipmi] access to se...	New	2018-04-10

History

#1 - 2018-12-12 12:53 - dheidler

- Status changed from Workable to In Progress

- Assignee set to dheidler

#2 - 2018-12-12 13:03 - dheidler

- Status changed from In Progress to Feedback

<https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/6392>

#3 - 2018-12-13 14:38 - dheidler

- Assignee changed from dheidler to okurz

#4 - 2018-12-13 15:02 - okurz

Discussed with asmorodskyi and dheidler and also taking feedback in <https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/6392> into account. We agreed to the following points:

- Console tests by default should use whatever is the most reliable and fast approach to check correct executions of commands. A serial terminal seems to be most promising
- The current way how "virtio"-terminal or "serial"-terminal based tests are visualized in openQA should be improved before we continue porting more tests
- We should use a visualization of serial terminal output like in <https://openga.suse.de/tests/2282638#step/abort01/1> -> [#44138](#)
- Especially the prompt sign in the "expected output" checking is not really adding valuable information and should be suppressed -> [#45143](#)
- Test modules should be written in a clean and simple way without any 'if/else'-branches on machines or architectures
- We should use proper consoles from os-autoinst and not write wrappers of wrappers as consoles should provide already enough abstraction -> [#45146](#)

I have the feeling the whole mess started with <https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/2916> which was introducing the 'root-ssh' console. For me the distinction to the 'root-console' is not clear. I wonder if they should be equivalent, e.g. for IPMI, so that we could keep simply select_console 'root-console' in test modules and we would just select what works most reliable. But I guess 'root-console' allows to do needle checks and 'root-ssh' does not because we do not control it over VNC. The introduction of the formerly mentioned PR triggered tickets like [#39665](#) where we need to call use_ssh_serial_console just to get "tests working again".

#6 - 2018-12-13 15:11 - okurz

- Related to action #36457: Implement serial terminal console for svirt backend added

#7 - 2018-12-13 15:11 - okurz

- Related to action #13914: [qe-core][functional][ipmi] wait_serial does not get expected output because ipmi console connection is closed added

#8 - 2018-12-13 15:11 - okurz

- Related to action #44888: [qam][ppc64le] test fails in sshd - fails in select_serial_terminal added

#9 - 2018-12-13 15:11 - okurz

- Related to action #34699: [qe-core][functional][ipmi] access to serial log during installation added

#10 - 2018-12-13 15:12 - okurz

- Related to action #12398: hide echoing to serial port in testapi calls from output in screenshots added

#11 - 2018-12-13 15:26 - okurz

- Subject changed from [functional][u] use \$self->select_serial_terminal instead of checking IPMI in every module to [functional][u][epic] Cleanup the use of serial-virtio-ssh-consoles in our tests (was: use \$self->select_serial_terminal instead of checking IPMI in every module)

- Description updated

- Status changed from Feedback to Blocked

- Target version changed from Milestone 22 to future

- Difficulty deleted (easy)

#12 - 2018-12-13 15:26 - okurz

- Related to coordination #38819: [qe-core][tools][functional][epic] Refactor use of backends added

#13 - 2018-12-13 15:27 - okurz

- Related to action #44138: [functional][u][userspace] tests in QAM which seem to be the equivalent look so much easier to review, crosscheck added

#14 - 2018-12-13 17:43 - pvorel

FYI I'm planning to use serial console for svirt backend in select_serial_terminal() ([#36457](#), merged PR <https://github.com/os-autoinst/os-autoinst/pull/1048> needs some additional work).

#15 - 2018-12-14 08:14 - okurz

[pvorel](#) that's good news. Can we somehow achieve to replace the calls to 'select_serial_terminal' with the according 'select_console' calls? Right now it looks a bit like differing approaches to have on one hand calls like select_console 'root-console' and such and then these "wrapper-functions".

#16 - 2019-01-09 09:59 - pvorel

Note: tests/console/consoletest_setup.pm is using check_console_font(), which requires using assert_screen(), so it cannot use select_serial_terminal().

I decided to start to replace select_console "root-console" with \$self->select_serial_terminal, which also bring IPMI support. See: <https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/6484>

#17 - 2019-01-30 10:25 - pvorel

- Related to action #45842: [all] select_serial_terminal on qemu can fail due to global VIRTIO_CONSOLE=1 added

#18 - 2019-05-22 10:38 - okurz

- Assignee changed from okurz to mgriessmeier

Move to new QSF-u PO after I moved to the "tools"-team. I mainly checked the subject line so in individual instances you might not agree to take it over completely into QSF-u. Feel free to discuss with me or reassign to me or someone else in this case. Thanks.

#19 - 2019-05-22 19:01 - pvorel

As one of these involved in virtio and serial console and creator of select_serial_terminal() offer to help with review. Not assigning to it due lack of time, but might do part of it in the future.

#20 - 2020-04-24 12:38 - SLindoMansilla

- Status changed from Blocked to Workable

- Assignee changed from mgriessmeier to SLindoMansilla

#21 - 2020-04-24 12:39 - SLindoMansilla

- Related to deleted (action #34699: [qe-core][functional][ipmi] access to serial log during installation)

#22 - 2020-04-24 12:39 - SLindoMansilla

- Blocks action #34699: [qe-core][functional][ipmi] access to serial log during installation added

#23 - 2020-10-12 13:37 - szarate

- Tracker changed from action to coordination

- Status changed from Workable to New

#24 - 2020-10-12 13:46 - szarate

See for the reason of tracker change: <http://mailman.suse.de/mailman/private/qa-sle/2020-October/002722.html>

#26 - 2020-11-06 10:26 - tjrinki_suse

- Subject changed from [functional][u][epic] Cleanup the use of serial-/virtio-/ssh-consoles in our tests (was: use \$self->select_serial_terminal instead of checking IPMI in every module) to [qe-core][functional][epic] Cleanup the use of serial-/virtio-/ssh-consoles in our tests (was: use \$self->select_serial_terminal instead of checking IPMI in every module)

#27 - 2021-03-12 12:04 - SLindoMansilla

- Assignee deleted (SLindoMansilla)

No time to work on this :(