openQA Tests - action #45326

[sle][functional][u][s390x][kvm] test fails in bootloader_zkvm - "Cannot allocate memory" when instantiating the virtual machine

2018-12-19 08:00 - okurz

<table>
<thead>
<tr>
<th>Status:</th>
<th>Resolved</th>
<th>Start date:</th>
<th>2018-12-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>High</td>
<td>Due date:</td>
<td></td>
</tr>
<tr>
<td>Assignee:</td>
<td>SLindoMansilla</td>
<td>% Done:</td>
<td>0%</td>
</tr>
<tr>
<td>Category:</td>
<td>Bugs in existing tests</td>
<td>Estimated time:</td>
<td>0.00 hour</td>
</tr>
<tr>
<td>Target version:</td>
<td>Milestone 31</td>
<td></td>
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<td>Difficulty:</td>
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Description

**Observation**

openQA test in scenario sle-15-SP1-Installer-DVD-s390x-qa_userspace_apache2_mod_perl@s390x-kvm-sle12 fails in bootloader_zkvm

**Reproducible**

Fails since (at least) Build 128.1 (current job)

**Expected result**

Last good: 126.1 (or more recent)

**Further details**

Always latest result in this scenario: latest

**Related issues:**

- Related to openQA Tests - action #54248: [functional][u] test fails in boot_t... Resolved 2019-07-15
- Has duplicate openQA Tests - action #46337: [sle][functional][u] test fails i... Rejected 2019-01-17
- Has duplicate openQA Infrastructure - action #56165: qemu-system-s390x: canno... Rejected 2019-08-30

History

#1 - 2018-12-19 14:17 - oorlov

Just for the statistics. There are more than one such fail.

Please, follow the link to see all the failed 'bootloader_zkvm' modules due to the same issue in 128.1 build:
https://openqa.suse.de/tests/overview?arch=&failed_modules=bootloader_zkvm&distri=sle&version=15-SP1&build=128.1&groupid=110#

#2 - 2019-01-03 06:57 - okurz

This is an autogenerated message for openQA integration by the openqa_review script:

This bug is still referenced in a failing openQA test: create_hdd_pcm_azure
https://openqa.suse.de/tests/2347236

#3 - 2019-01-17 07:29 - okurz

This is an autogenerated message for openQA integration by the openqa_review script:

This bug is still referenced in a failing openQA test: qa_userspace_apache2_mod_perl
https://openqa.suse.de/tests/2376787

#4 - 2019-01-22 09:15 - okurz

- Subject changed from [functional][u][s390x][kvm] test fails in bootloader_zkvm - "Cannot allocate memory" when instantiating the virtual machine to [sle][functional][u][s390x][kvm] test fails in bootloader_zkvm - "Cannot allocate memory" when instantiating the virtual machine
- Status changed from New to Feedback
Assignee set to mgriessmeier
Priority changed from Normal to Low
Target version changed from Milestone 25+ to Milestone 23

From duplicate ticket #46337 from mgriessmeier:

the actual issue is here (reading logs helps ;): 

```
[2019-01-17T13:10:13.588 CET] [debug] Command's stderr:
error: Failed to define domain from /var/lib/libvirt/images/openQA-SUT-3.xml
error: cannot fork child process: Cannot allocate memory
```

Nick and me already took a look - libvirtd process is consuming a lot of memory, it was running for 130 days, we should track this somehow. but for now - after restarting libvirtd, the memory usage normalized.

keeping on feedback - low, for tracking

#5 - 2019-01-22 09:15 - okurz
- Has duplicate action #46337: [sle][functional][u] test fails in bootloader_zkvm - cannot allocate memory added

#6 - 2019-02-15 09:29 - mgriessmeier
- Status changed from Feedback to Resolved

didn't see this anymore after the memory was increased on s390p8

#7 - 2019-02-26 07:45 - mgriessmeier
- Status changed from Resolved to In Progress
- Assignee deleted (mgriessmeier)
- Priority changed from Low to Normal

happening now on our sle15 kvm machines aka s390p7 hypervisor
https://openqa.suse.de/tests/2494174/modules/bootloader_zkvm/steps/22

#8 - 2019-02-26 08:32 - mgriessmeier
- Status changed from In Progress to Workable

#9 - 2019-03-13 11:23 - SLindoMansilla
- Status changed from Workable to In Progress
- Assignee set to SLindoMansilla

#10 - 2019-03-19 10:29 - mgriessmeier
please keep in mind, restarting libvirtd during tests is killing running machines =)
so maybe a cronjob on the host itself?

which might be also helpful is:
http://openqa-monitoring.qa.suse.de:3000/d/AFjd939ik/s390-lpar?panellId=4&fullscreen&orgId=1

#11 - 2019-04-02 07:32 - mgriessmeier
- Target version changed from Milestone 23 to Milestone 24

moving to M24

- Target version changed from Milestone 24 to Milestone 25

- Status changed from In Progress to Feedback

PR: https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/7456
#14 - 2019-05-17 11:09 - SLindoMansilla

- Status changed from Feedback to In Progress

Implementing the same calls for post_fail_hook

#15 - 2019-06-19 07:24 - coolgw

If you check following group, you will see a lot of failed on bootloaderzvm
https://openqa.suse.de/tests/overview?distri=sle&version=12-SP5&build=0198&groupid=234
I just select some failed cases:
https://openqa.suse.de/tests/2986646#step/bootloader_zkvm#1/14
https://openqa.suse.de/tests/2982142#step/bootloader_zkvm/28
https://openqa.suse.de/tests/2986651#step/bootloader_zkvm/1
https://openqa.suse.de/tests/2986643#step/bootloader_zkvm#1/1
https://openqa.suse.de/tests/2986644#step/bootloader_zkvm#1/14

#16 - 2019-06-19 11:22 - SLindoMansilla

There are different causes for all of those failures.

Some of them are failing for the cause targeted in this ticket, "cannot allocate memory", which I can see happening in openqaworker5. But, I cannot find any more failure, so, maybe someone already executed systemctl restart libvirtd?

If it happens again "cannot allocate memory", someone with access to that worker has to restart the service.

#17 - 2019-07-02 00:44 - coolgw

Issue trigger again and I found it happen on openqaworker5 again, could we just add one script on this machine and do reboot operation once memory issue happen? So we can workaround this.
openqaworker5:6

https://openqa.suse.de/tests/3018758#step/bootloader_zkvm/6
https://openqa.suse.de/tests/3018757#step/bootloader_zkvm/6
https://openqa.suse.de/tests/3018759#step/bootloader_zkvm/6
https://openqa.suse.de/tests/3018753#step/bootloader_zkvm/6
https://openqa.suse.de/tests/3018751#step/bootloader_zkvm/6

#18 - 2019-07-02 13:56 - SLindoMansilla

There were some complaints that this would cause running jobs to fail. But, they should be restarted, right?
I will prepare a PR for that.

#19 - 2019-07-02 15:05 - SLindoMansilla

PR to generate a file with stderr output of virsh command: [https://github.com/os-autoinst/os-autoinst/pull/1173](https://github.com/os-autoinst/os-autoinst/pull/1173)

#20 - 2019-07-03 09:29 - mgriessmeier

- Target version changed from Milestone 25 to Milestone 26

#21 - 2019-07-03 09:41 - mgriessmeier

- Priority changed from Normal to High

happens more and more - we need to take care of this

#22 - 2019-07-05 02:19 - coolgw

memory issue happen again:
https://openqa.suse.de/tests/3031224#step/bootloader_zkvm/6
https://openqa.suse.de/tests/3028960#step/bootloader_zkvm/6
https://openqa.suse.de/tests/3028948#step/bootloader_zkvm/6
https://openqa.suse.de/tests/3028944#step/bootloader_zkvm/6

#23 - 2019-07-08 01:12 - coolgw

happen again:
https://openqa.suse.de/tests/3037619#step/bootloader_zkvm/6
https://openqa.suse.de/tests/3037617#step/bootloader_zkvm/6
https://openqa.suse.de/tests/3039261#step/bootloader_zkvm/6
#24 - 2019-07-10 06:58 - mgriessmeier
- Priority changed from High to Urgent

PR by szarate: https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/7936

#26 - 2019-07-29 09:14 - szarate
- Related to action #54248: [functional][u] test fails in boot_to_desktop: SUT is booting from the wrong medium added

#27 - 2019-08-03 06:05 - okurz
This is an autogenerated message for openQA integration by the openqa_review script:
This bug is still referenced in a failing openQA test: offline_sles12sp4_media_sdk_def_full
https://openqa.suse.de/tests/3167151

#28 - 2019-08-18 06:02 - okurz
This is an autogenerated message for openQA integration by the openqa_review script:
This bug is still referenced in a failing openQA test: online_sles12sp4_pscs_base_all_minimal_zypp
https://openqa.suse.de/tests/3251956

#29 - 2019-08-20 09:28 - coolgw
@ SLindoMansilla @ szarate okurz I saw the PR already merged, then the automatic restart can work now or still some part need to be done?

#30 - 2019-08-20 09:38 - SLindoMansilla
- Status changed from In Progress to Workable

coolgw wrote:
   @ SLindoMansilla @ szarate okurz I saw the PR already merged, then the automatic restart can work now or still some part need to be done?

For the automatic restart, we need:

1. An agreement to apply the same a approach for the same machines
2. Create salt states to automatically deploy that task (bash script, cronjob, systemd timer, etc)

This will take long time. foursixnine is working on something while we get to that point. He will automatically collect worker data to show statistics and/or send notifications (including not enough memory), so that a human can react to it, before a QA reviewer take a look at the job.

#31 - 2019-08-20 12:56 - mgriessmeier
- Target version changed from Milestone 26 to Milestone 27

#32 - 2019-08-27 08:48 - SLindoMansilla
- Status changed from Workable to In Progress

#33 - 2019-08-27 13:03 - SLindoMansilla
Working on: https://github.com/SergioAtSUSE/auto-restart-libvirtd

#34 - 2019-08-28 08:42 - SLindoMansilla

#35 - 2019-08-30 12:15 - SLindoMansilla
Preparing the salt state: https://gitlab.suse.de/openqa/salt-states-openqa/merge_requests/157

#36 - 2019-08-30 13:28 - okurz
- Has duplicate action #56165: qemu-system-s390x: cannot set up guest memory 's390.ram': Cannot allocate memory added

- Priority changed from Urgent to High
What needs to be done?

- Find a general github project to host the source code DONE -> https://github.com/openSUSE/auto-restart-libvirtd
- Find a way to restart the affected failed jobs

#38 - 2019-09-05 08:00 - SLindoMansilla
Salt state was merged: https://gitlab.suse.de/openqa/salt-states-openqa/merge_requests/157
Updated readme was merged: https://github.com/openSUSE/auto-restart-libvirtd/pull/1/files

#39 - 2019-09-05 08:27 - SLindoMansilla
- Status changed from In Progress to Workable

#40 - 2019-09-16 08:42 - mgiessmeier
- Target version changed from Milestone 27 to Milestone 28

#41 - 2019-10-01 06:03 - okurz
This is an autogenerated message for openQA integration by the openqa_review script:
This bug is still referenced in a failing openQA test: offline_sles12sp2_ltss_rmt_sdk_all_full_s390x
https://openqa.suse.de/tests/3373611

#42 - 2020-01-03 09:10 - mgiessmeier
- Target version changed from Milestone 28 to Milestone 31

#43 - 2020-02-05 10:23 - okurz
Please see https://gitlab.suse.de/openqa/salt-states-openqa/merge_requests/264 where I suggest to remove the auto-restart-libvirtd part again as I am convinced it is completely ineffective in the current form for multiple reasons. Unless the package is used elsewhere I also suggest to remove https://build.opensuse.org/project/show/devel:openSUSE:QA:QSF again to save resources.

#44 - 2020-02-19 13:57 - SLindoMansilla
Package deleted from OBS: https://build.opensuse.org/project/show/devel:openSUSE:QA:QSF

#45 - 2020-02-19 13:59 - SLindoMansilla
- Status changed from Workable to Resolved

Resolved: works-for-me
No new evidence of libvirtd with memory allocation problems.