### Description

yast2_i must not run zypper inr as it requires too much disk space and makes the entire test less useful as the system is significantly altered.

### Observation

openQA test in scenario opensuse-15.0-GNOME-Live-x86_64-gnome-live@64bit-2G fails in yast2_i

### Test suite description

Maintainer: okurz@suse.de, dimstar@opensuse.org

Test for openSUSE GNOME Next Live-Media

### Reproducible

Fails since (at least) Build 20.156 (current job)

### Expected result

Last good: 20.152 (or more recent)

### Further details

Always latest result in this scenario: latest

<table>
<thead>
<tr>
<th>Related issues:</th>
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<tbody>
<tr>
<td>Related to openQA Tests - action # 48125: [functional][y] test fails in yast2...</td>
<td>Resolved 20/02/2019 12/03/2019</td>
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<tr>
<td>Duplicated by openQA Tests - action # 48596: [functional][y] yast2_i installs...</td>
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### History

#### #1 - 28/02/2019 08:15 am - favogt
- Priority changed from Urgent to High

Setting the priority to high as the test runs continue as normal after the failure as the vm state is reverted. So none of the negative effects affect the later test steps.

#### #2 - 04/03/2019 08:50 am - okurz
- Related to action #48596: [functional][y] yast2_i installs recommends on a live cd added

#### #3 - 04/03/2019 08:54 am - okurz
- Related to action #48125: [functional][y] test fails in yast2_i - package has preselected, seems a new feature from yast2-packager 4.1.27? added
There have been recent test adaptions but can it be that https://build.opensuse.org/request/show/676543 is causing this from product side?

EDIT: No, not really as the test explicitly calls zypper. That's not how it was intended.

@JRivrain if you decide to exclude the complete call in case of live media – which kinda makes sense – we should still review the decision to install a lot of packages within the test module at all as we should not use “zypper” but “yast” here. You can extract that in a separate ticket of course.

Treating live envs specially is the wrong approach anyway - this call needs to be dropped completely in its current form.

It's only a workaround for openQA not expecting hardware supplements anyway. Dominique suggested to call "zypper inr --no-recommends" instead.

@favogt thanks for clarifying, "zypper inr --no-recommends" seems the better way to go then. I'm currently testing it.

It also fails with --no-recommends in various ways...
One is this http://amazing.suse.cz/tests/3973#step/yast2_i/27 :


Another is this, on leap 15.0 amd sle 12 :
Unknown option : --no-recommends

#15 - 13/03/2019 03:36 pm - favogt

I can't reach amazing.suse.de from here.

That "--no-recommends" does not exist on SLE 12 and Leap 15.0 should not matter, the zypper call shouldn't be needed there at all.

#16 - 13/03/2019 05:32 pm - JRivrain

It looks indeed like that zypper_call is completely useless.
But, we still may run out of memory as in http://amazing.suse.cz/tests/3994#step/yast2_i/24

```
2019-03-13 12:33:02 <1> susetest(4866) [zypp::exec+] ExternalProgram.cc(start_program):259 Executing 'rpm' ' -r' ' -noglob' ' -force' ' -nodeps' '
/var/lib/rpm' ' -U' ' -percent' ' -dbpath' ' /var/cache/zypp/packages/repo-oss/noarch/desktop-translations-84.87.20190131.bc9de591-1.1.noarch.rpm'
2019-03-13 12:33:02 <3> susetest(4866) [zypp::exec] ExternalProgram.cc(start_program):395 Can't fork (Cannot allocate memory).
```

This particular SUT (rescue) uses only 1534 MB of ram, though. I propose that we just increase this value, or remove one of the modules that install packages for that SUT.

#17 - 14/03/2019 10:49 am - dimstar

JRivrain wrote:

```
This particular SUT (rescue) uses only 1534 MB of ram, though. I propose that we just increase this value, or remove one of the modules that install packages for that SUT.
```

1.5GB of RAM to run a rescue system is definitively already MORE than I'd expect to be useful. Installing all kind of packages into a live system is in any case not the scope of the live environment. More RAM won't solve the problem.

#18 - 14/03/2019 10:50 am - dimstar

JRivrain wrote:

```
Another is this, on leap 15.0 amd sle 12 :

Unknown option : --no-recommends
```

This is a problem - a nasty one even.
Maybe it's better to just detect the 'recommended packages to be installed' by yast2_i and handle it from within there - not with an explicit zypper inr call. Old distros don't show it (libzypp did not have the feature) - and new ones would handle it gracefully without this zypper inr hack.

#19 - 14/03/2019 11:00 am - favogt

dimstar wrote:

JRivrain wrote:

Another is this, on leap 15.0 amd sile 12:

Unknown option: --no-recommends

This is a problem - a nasty one even.

Maybe it's better to just detect the 'recommended packages to be installed' by yast2_i and handle it from within there - not with an explicit zypper inr call. Old distros don't show it (libzypp did not have the feature) - and new ones would handle it gracefully without this zypper inr hack.

It's not a problem because only those distros with support for --no-recommends actually need the call.

So I don't see any problem here.

I'd prefer it as well though if openQA could handle yast2 sw_single not being empty on the first start properly though.

#20 - 14/03/2019 01:35 pm - JRivrain

I'd prefer it as well though if openQA could handle yast2 sw_single not being empty on the first start properly though.

https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/6876

From the test runs I have been doing, it works.

#21 - 14/03/2019 01:45 pm - favogt

JRivrain wrote:

I'd prefer it as well though if openQA could handle yast2 sw_single not being empty on the first start properly though.

https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/6876

From the test runs I have been doing, it works.

Ok, so the zypper call can just be removed now?

#22 - 14/03/2019 02:23 pm - JRivrain

02/04/2020
It seems like I cannot check the VRs mentioned in the PR, mloviska’s laptop being off right now. So I am doing some more on mine, then we may merge this [link](https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/7048)

EDIT: Second thought, mloviska tested this thoroughly already, and in his version the zypper call was not present. So I’ll just go ahead and remove [WIP] from the PR.

#23 - 14/03/2019 02:36 pm - JRivrain

jrivrain Hi, I am trying to figure out the motivation for this change [link](https://github.com/DimStar77/os-autoinst-distri-opensuse/commit/03afo4a2a177d3abdda35f14d64c401b1d7f9954#diff-ddd6b723cde394cb699d7dca9e05d2e)

ejrivrain Is it that you need a specific driver for jeOS?

ccret the test looks for an empty list of packages when it checks the yast screen

jrivrain ok, so it seems we do not need this anymore, thanks to [link](https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/6876)

#24 - 14/03/2019 02:37 pm - JRivrain

- Status changed from In Progress to Feedback

#25 - 19/03/2019 01:16 pm - JRivrain

PR: [link](https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/7048)

#26 - 20/03/2019 09:25 am - JERiveraMoya

Still some issues in Live cd in TW, i.e.: [link](https://openqa.opensuse.org/tests/885558)

#27 - 20/03/2019 09:31 am - favogt

JERiveraMoya wrote:

> Still some issues in Live cd in TW, i.e.: [link](https://openqa.opensuse.org/tests/885558)

Looks like a missing needle - I’ll try with a new one.

#28 - 20/03/2019 10:03 am - favogt

favogt wrote:

> JERiveraMoya wrote:

> Still some issues in Live cd in TW, i.e.: [link](https://openqa.opensuse.org/tests/885558)

> Looks like a missing needle - I’ll try with a new one.

Almost - it installed the packages but apparently ran out of disk space.
@favogt To me https://openqa.opensuse.org/tests/885558 looks like a needle issue, could you show the logs you found that indicate lack of memory? If so I assume we should see something as I mentioned above. Or have you seen a memory failure in another test run?

#30 - 20/03/2019 02:43 pm - favogt

JRivrain wrote:

@favogt To me https://openqa.opensuse.org/tests/885558 looks like a needle issue, could you show the logs you found that indicate lack of memory? If so I assume we should see something as I mentioned above. Or have you seen a memory failure in another test run?

My comment was referring to the next run, after I added the needle.

I used developer mode to debug https://openqa.opensuse.org/tests/886182#live, the reason it runs out of memory (= disk space, as tmpfs is used) is that salt-master/salt-minion and "libc.so.6" are not uninstalled, leaving ~500MiB of binaries behind.

#31 - 20/03/2019 02:46 pm - JRivrain
- Status changed from Feedback to In Progress

Ok, it was hard to test until we have those needles fixed. I put this ticket back to in-progress, we have to find a consensus on which test to disable in all those "live" tests. Too many packages are installed, obviously.

#32 - 20/03/2019 03:23 pm - favogt

JRivrain wrote:

Ok, it was hard to test until we have those needles fixed. I put this ticket back to in-progress, we have to find a consensus on which test to disable in all those "live" tests. Too many packages are installed, obviously.

I'll do a PR which adds "zypper rm -u" calls to salt and libc tests - that should work fine.

#33 - 20/03/2019 04:29 pm - JRivrain

It makes sense, I thought also of using the rollback flag at the end of salt module if LIVETEST=1.
EDIT : but we have to take care not to break something else later that would require some packages installed. Rodion thinks this should be adressed in another ticket

#34 - 21/03/2019 09:46 am - favogt

JRivrain wrote:

It makes sense, I thought also of using the rollback flag at the end of salt module if LIVETEST=1.
EDIT: but we have to take care not to break something else later that would require some packages installed. Rodion thinks this should be addressed in another ticket.

Apparently uninstalling the unneeded packages is not enough - YaST's use of ruby needs so much memory that the kernel's overcommit policy forbids forking.

I'll send a PR to disable yast2_i on livetest instead.

#35 - 21/03/2019 10:06 am - JRivrain
- Status changed from In Progress to Feedback

Thanks favogt, PR https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/7118

#36 - 25/03/2019 07:07 am - JERiveraMoya

Merged, please @JRivrain, check VR and resolve this ticket.

For the follow-up ticket we need to create it and link to this one to not forget.

#37 - 25/03/2019 07:07 am - JERiveraMoya
- Status changed from Feedback to In Progress

#38 - 25/03/2019 01:12 pm - JRivrain
- Status changed from In Progress to Resolved

VR with test excluded: https://openqa.opensuse.org/tests/891046