openQA Tests - action #53729
[functional][u] test fails in setup_zdup - after switch to "std" graphics adapter?
03/07/2019 05:28 am - okurz

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Description

Observation

openQA test in scenario opensuse-Tumbleweed-DVD-x86_64-zdup-Leap-42.1-gnome@64bit fails in setup_zdup

Reproducible

Fails since (at least) Build 20190702 (current job)

Expected result

Last good: 20190701 (or more recent)

Suggestions

As mentioned in #53729#note-1 I suggest for each of ls /var/lib/openqa/share/factory/hdd/fixed/*@64bit.qcow2 on o3 to

- for each to copy the file to a temporary one (to not mangle the hardlink target that is still used for the cirrus variants)
- mount the qcow images using qemu-nbd
- change the boot parameters as necessary (test what is necessary)
- save the new images as the ""@64bit.qcow2" variants
- replace the ""@64bit_cirrus" variants in openSUSE Tumbleweed with ""@64bit" ones
- In case we decide with RMs to unschedule all "64bit_cirrus" delete the unused "fixed" images

Further details

Always latest result in this scenario: latest

Related issues:

Related to openQA Tests - action # 55697: [functional][u] test fails in boot_... Resolved 19/08/2019
Duplicated by openQA Tests - action # 54824: [u] test fails in setup_zdup - f... Resolved 30/07/2019

History

#1 - 03/07/2019 05:43 am - okurz

Seems like the screen resolution is distorted, as in the "video" parameter ineffective, e.g. see
https://openqa.opensuse.org/tests/973405#step/boot_to_desktop/6 of "external_iso" vs. last good
https://openqa.opensuse.org/tests/972393#step/boot_to_desktop/4
crosschecking with cirrus

openqa_clone_job_o3 --skip-chained-deps 973405 QEMUVGA=cirrus _GROUP=0 BUILD=test TEST=okurz_poo53729_cirrus

Created job #973806: opensuse-Tumbleweed-DVD-x86_64-Build20190702-external_iso@64bit - > https://openqa.opensuse.org/t973806, passed
booting step.

Maybe we can patch the boot parameters by overriding video:

```
openqa_clone_job_o3 --skip-chained-deps 973405 _GROUP=0 BUILD=test okurz_poo53729_external_iso_boot_with_video_override EXTRABOOTPARAMS_BOOT_LOCAL="video=1024x768"
```

Created job #973816: opensuse-Tumbleweed-DVD-x86_64-Build20190702-external_iso@64bit -> https://openqa.opensuse.org/t973816

failed because there is a missing space: https://openqa.opensuse.org/tests/973816#step/boot_to_desktop/4

```
openqa_clone_job_o3 --skip-chained-deps 973405 _GROUP=0 BUILD=test okurz_poo53729_external_iso_boot_with_video_override EXTRABOOTPARAMS_BOOT_LOCAL=" video=1024x768"
```

Created job #973822: opensuse-Tumbleweed-DVD-x86_64-Build20190702-external_iso@64bit -> https://openqa.opensuse.org/t973822 fails as well, seems like later boot parameters do not overwrite first. I would need to carefully delete previous parameters. Seems to be a safer choice when we hardcode "QEMUVGA=cirrus" on upgrade jobs for now.

Maybe I can succeed to delete some characters:

```
```

Created job #973826: opensuse-Tumbleweed-DVD-x86_64-Buildtest-okurz_poo53729_external_iso_boot_with_video_override@64bit -> https://openqa.opensuse.org/t973826

failed because of wrong product-/needledir, trying again with proper clone from original:

```
```

Created job #974042: opensuse-Tumbleweed-DVD-x86_64-Build20190702-external_iso@64bit -> https://openqa.opensuse.org/t974042

Look into my most lazy way to fix the video boot parameters on old qcow images :) -> https://openqa.opensuse.org/tests/974150#step/boot_to_desktop/108

Actually it should not be too hard to just delete the -16 suffix in the right position:

```
```
Created job #974425: opensuse-Tumbleweed-DVD-86_64-Build20190702-external_iso@64bit -> https://openqa.opensuse.org/t974425

Created new needle grub-prompt-video_16bit-20190703 from https://openqa.opensuse.org/tests/974150#step/boot_to_desktop/90 and retriggered as https://openqa.opensuse.org/tests/974426

that did not retrigger the branch on "EXTRABOOTPARAMS_BOOT_LOCAL" at all so setting an empty value:

openqa-clone-job --skip-chained-deps --within-instance https://openqa.opensuse.org 973405 _GROUP=0
TEST=external_iso@okurz/os-autoinst-distri-opensuse#fix/boot_std_cirrus BUILD=okurz/os-autoinst-distri-opensuse#7788
CASEDIR=https://github.com/okurz/os-autoinst-distri-opensuse.git#fix/boot_std_cirrus
PRODUCTDIR=os-autoinst-distri-opensuse/products/opensuse
NEEDLES_DIR=/var/lib/openqa/cache/openqa1-opensuse/tests/opensuse/products/opensuse/needles
EXTRABOOTPARAMS_BOOT_local= ' 
EXTRABOOTPARAMS_DELETE_NEEDLE_TARGET=grub-prompt-video_16bit

https://openqa.opensuse.org/tests/974429#step/boot_to_desktop/110 shows where we successfully delete the "-16" suffix but I fear we need to delete the "vga=791" part as well. Maybe it's just easier to mount the qcow images and replace the boot parameters statically in a copied file?

On openqaworker4:

cp -a /var/lib/openqa/share/factory/hdd/opensuse-42.1-x86_64-GM-gnome@64bit.qcow2 /tmp/
modprobe nbd max_part=8
qemu-nbd --connect=/dev/nbd0 /tmp/opensuse-42.1-x86_64-GM-gnome@64bit.qcow2
mkdir -p mnt
mount /dev/nbd0p2 /tmp/mnt
grep '1024x768-16' /tmp/mnt/boot/grub2/grub.cfg
sed -i -e 's/(video=1024x768)-16/1/' -e 's/ vga=791//' /tmp/mnt/boot/grub2/grub.cfg
sed -i -e 's/(video=1024x768)-16/1/' -e 's/ vga=791//' /tmp/mnt/etc/default/grub
grep '1024x768' /tmp/mnt/boot/grub2/grub.cfg /tmp/mnt/etc/default/grub
umount /tmp/mnt
qemu-nbd --disconnect /dev/nbd0

and then copied over to o3, on o3:

cd /var/lib/openqa/share/factory/hdd/fixed
mv opensuse-42.1-x86_64-GM-gnome@64bit.qcow2
scp root@openqaworker4:/tmp/opensuse-42.1-x86_64-GM-gnome@64bit.qcow2

openqa_clone_job_o3 --skip-chained-deps 973405 TEST=okurz_poo_changed_image_for_non_cirrus_external_iso_poo53729 _GROUP=0 BUILD=test

Created job #974471: opensuse-Tumbleweed-DVD-86_64-Build20190702-external_iso@64bit -> https://openqa.opensuse.org/t974471

failed with no visible change to the parameters, probably because the cache did not detect the qcow image as a new one.

02/04/2020
so I hardlinked the qcow image to ...64bit_std on o3 and try again:

```
openqa_clone_job_o3 --skip-chained-deps 973405 TEST=okurz_poo_changed_image_for_non_cirrus_external_iso_poo53729 _GROUP=0 BUILD=test HDD_1=opensuse-42.1-x86_64-GM-gnome@64bit_std.qcow2
```

Created job #974472: opensuse-Tumbleweed-DVD-x86_64-Build20190702-external_iso@64bit -> https://openqa.opensuse.org/t974472

https://openqa.opensuse.org/tests/974472/file/serial0.txt shows that we picked up the right image however it did not yet seem to have an effect. Or did I prematurely abort? Retriggered as https://openqa.opensuse.org/tests/974473 no, failed the same.

In https://openqa.opensuse.org/tests/974471/file/serial0.txt I can see

```
[  2.794179] [drm] Initialized drm 1.1.0 20060810
[  2.798376] parport_pc 00:04: reported by Plug and Play ACPI
[  2.799464] parport0: PC-style at 0x378, irq 7 [PCSPP,TRISTATE]
[  2.825202] fb: switching to bochsdrmfb from EFI VGA
[  2.826243] Console: switching to colour dummy device 80x25
[  2.860081] bochs-drm 0000:00:02.0: BAR 0: can't reserve [mem 0xfd000000-0xfdffffff pref]
[  2.860924] [drm:bochs_hw_init [bochs_drm]] *ERROR* Cannot request framebuffer
[  2.861657] Trying to free nonexistent resource <00000000fd000000-00000000fdffffff>
[  2.920318] ppdev: user-space parallel port driver
[  2.921419] bochs-drm: probe of 0000:00:02.0 failed with error -16
```

vs. from the last job on cirrus:

```
[  1.703436] fb: switching to cirrusdrmfb from EFI VGA
[  1.704390] Console: switching to colour dummy device 80x25
[  1.708032] [TTM] Zone kernel: Available graphics memory: 766560 kB
[  1.708781] [TTM] Initializing pool allocator
[  1.709286] [TTM] Initializing DMA pool allocator
[  1.710451] [drm] fb mappable at 0xFC000000
[  1.710941] [drm] vram aper at 0xFC000000
[  1.711408] [drm] size 33554432
[  1.711772] [drm] fb depth is 16
[  1.716010] [drm] pitch is 2048
[  1.716479] fbcon: cirrusdrmfb (fb0) is primary device
[  1.717419] Console: switching to colour frame buffer device 128x48
[  1.735883] cirrus 0000:00:02.0: BAR 0: can't reserve [mem 0xf0000000-0xffffffff pref]
[  1.735883] cirrus 0000:00:02.0: registered panic notifier
[  1.744159] [drm] Initialized cirrus 1.0.0 20110418 for 0000:00:02.0 on minor 0
```

so the first does not look good. One more point for "keep migration jobs on cirrus" for now. However the one job I started with all boot parameters deleted except video=1024x768 also has qemu 3.1 from Leap 15.1 (https://openqa.opensuse.org/tests/974150/file/serial0.txt) whereas the failed ones are on qemu 2.11 so maybe only the combination of new qemu and tweaked video parameters is the fix?

So for now I did on o3:

```
ariel:/var/lib/openqa/share/factory/hdd/fixed # for i in $(ls *64bit.qcow2) ; do ln $i ${i%.qcow2}_cirrus.qcow2; done
ariel:/var/lib/openqa/share/factory/hdd/fixed # ls *64bit_cirrus.qcow2
opensuse-15.0-x86_64-GM-gnome@64bit_cirrus.qcow2
```

02/04/2020
The problematic test scenarios in the current build seem to be:

- opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-Leap-42.3-kde@64bit using opensuse-42.3-x86_64-GM-kde@64bit.qcow2
- opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-Leap-42.3-gnome@64bit using opensuse-42.3-x86_64-GM-gnome@64bit.qcow2
- opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-Leap-42.2-kde@64bit using opensuse-42.2-x86_64-GM-kde@64bit.qcow2

for each I can try to clone with "QEMUVGA=cirrus" hardcoded for now, then schedule the "...@64bit_cirrus" variant instead, move the "...@64bit" variant to development and see what can be done about the qcow images:

for i in 973340 973334 973609 973325 973324 973314 973313 973356 973313 973513 973356 973513 973608 973427 973428 973405; do
openqa-clone-job --skip-chained-deps --within-instance https://openqa.opensuse.org $i QEMUVGA=cirrus; done

Created job #974524: opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-Leap-42.3-kde@64bit -> https://openqa.opensuse.org/974524
Created job #974525: opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-Leap-42.3-gnome@64bit -> https://openqa.opensuse.org/974525
Created job #974526: opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-Leap-42.2-kde@64bit -> https://openqa.opensuse.org/974526
Created job #974527: opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-Leap-42.2-gnome@64bit -> https://openqa.opensuse.org/974527
Created job #974528: opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-Leap-42.1-kde@64bit -> https://openqa.opensuse.org/974528
Created job #974529: opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-Leap-42.1-gnome@64bit -> https://openqa.opensuse.org/974529
Created job #974530: opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-13.2@64bit -> https://openqa.opensuse.org/974530
Created job #974531: opensuse-Tumbleweed-NET-x86_64-Build20190702-zdup-13.1-gnome@64bit -> https://openqa.opensuse.org/974531
Created job #974532: opensuse-Tumbleweed-DVD-x86_64-Build20190702-zdup-Leap-42.3-kde@64bit -> https://openqa.opensuse.org/974532
Created job #974533: opensuse-Tumbleweed-DVD-x86_64-Build20190702-zdup-Leap-42.3-gnome@64bit -> https://openqa.opensuse.org/974533
Created job #974534: opensuse-Tumbleweed-DVD-x86_64-Build20190702-zdup-Leap-42.2-gnome@64bit -> https://openqa.opensuse.org/974534
Created job #974535: opensuse-Tumbleweed-DVD-x86_64-Build20190702-zdup-Leap-42.1-gnome@64bit -> https://openqa.opensuse.org/974535
Created job #974536: opensuse-Tumbleweed-DVD-x86_64-Build20190702-zdup-Leap-15.0-gnome@64bit -> https://openqa.opensuse.org/974536
Created job #974537: opensuse-Tumbleweed-DVD-x86_64-Build20190702-gnome+import_ssh_keys@64bit -> https://openqa.opensuse.org/974537
Created job #974538: opensuse-Tumbleweed-DVD-x86_64-Build20190702-gnome+do_not_import_ssh_keys@64bit -> https://openqa.opensuse.org/974538

02/04/2020
Moved all problematic scenarios from job group Tumbleweed to Development Tumbleweed and replaced by "...@64bit_cirrus" variants instead.

#2 - 04/07/2019 04:49 am - okurz
Out of the above two have failed:

- [https://openqa.opensuse.org/tests/974526](https://openqa.opensuse.org/tests/974526) in keymap_or_locale and force_scheduled_tasks but that happened in before in this scenario already, reported and handled as #53828
- [https://openqa.opensuse.org/tests/974530#step/user_gui_login/6](https://openqa.opensuse.org/tests/974530#step/user_gui_login/6) handled as #53831

#3 - 05/07/2019 12:41 pm - okurz
- Subject changed from [opensuse] test fails in setup_zdup - after switch to "std" graphics adapter? to [functional][u] test fails in setup_zdup - after switch to "std" graphics adapter?
- Description updated
- Status changed from In Progress to Workable
- Assignee changed from okurz to mgriessmeier
- Priority changed from Urgent to High

The 64bit_cirrus scenarios are pretty stable now. I have updated the description with suggestions what to do as the next steps and can assign to [functional][u]

@mgriessmeier ok for QSF-u?

#4 - 13/08/2019 07:38 am - okurz
The situation could be easier by now because I updated all o3 workers to openSUSE Leap 15.1 in the meantime with a more recent qemu version so maybe it's enough to simply adjust the video= boot parameter on the go with EXTRABOOTPARAMS_DELETE_CHARACTERS=3
EXTRABOOTPARAMS_BOOT_LOCAL=' ' EXTRABOOTPARAMS_DELETE_NEEDLE_TARGET=grub-prompt-video_16bit

#5 - 14/08/2019 11:44 am - okurz
- Duplicated by action #54624: [u] test fails in setup_zdup - failed switch to root console added

#6 - 08/10/2019 04:42 am - okurz
- Related to action #55697: [functional][u] test fails in boot_to_desktop - screen resolution is inconsistent, probably due to switch to "std" graphics adapter added

#7 - 30/03/2020 11:03 am - mgriessmeier
- Priority changed from High to Normal

#8 - 30/03/2020 01:29 pm - dheidler
- Status changed from Workable to In Progress
- Assignee changed from mgriessmeier to dheidler

#9 - 01/04/2020 08:31 am - szarate
Dominik to take a look eventually when feature tickets and feedback to bugs is done, which is already quite some work :)

02/04/2020
So the EXTRABOOTPARAMS_DELETE_CHARACTERS=3 EXTRABOOTPARAMS_BOOT_LOCAL=' '
EXTRABOOTPARAMS_DELETE_NEEDLE_TARGET=grub-prompt-video_16bit line from okurz doesn't seem to help while QEMUVGA=cirrus does.

https://openqa.opensuse.org/tests/1219149#step/setup_zdup/110
https://openqa.opensuse.org/tests/1219122# <-- with cirrus

Added QEMUVGA=cirrus for the following testsuites:

- zdup-Leap-15.0-gnome
- zdup-Leap-42.1-gnome
- zdup-Leap-42.2-gnome
- zdup-Leap-42.3-gnome
- zdup-Leap-42.3-kde

- Status changed from In Progress to Feedback