openQA Tests - action #39200

[functional][u] Change colour depth of product VNC from 16 to 24

2018-08-06 09:44 - nicksinger

<table>
<thead>
<tr>
<th>Status:</th>
<th>Rejected</th>
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</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>SLindoMansilla</td>
</tr>
<tr>
<td>Category:</td>
<td>Infrastructure</td>
</tr>
<tr>
<td>Target version:</td>
<td>future</td>
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<td>Difficulty:</td>
<td></td>
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<tr>
<td>Start date:</td>
<td>2018-08-06</td>
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<td>Due date:</td>
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<td>% Done:</td>
<td>0%</td>
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<td>Estimated time:</td>
<td>0.00 hour</td>
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Description

While reviewing SLE15SP1 I realized that colors on s390x are different to other architectures. Compare a "good" screenshot from e.g. x86_64: https://openqa.suse.de/tests/1891706#step/welcome/1 with a badly colored one: https://openqa.suse.de/tests/1891468#step/welcome/2

The SUSE logo on the good one has a color-value of 0xffffff while the bad one has 0xf8fcf8. Seems like this shift in color is introduced by the additional layers in remote jobs. IPMI has the same problem: https://openqa.suse.de/tests/1896186#step/welcome/1

I'm pretty sure that this is not a product regression since we've it on SLE15 as well as 12SP4 - besides that also really old jobs show the wrong color too: https://openqa.suse.de/tests/1585180#step/welcome/1

History

#1 - 2018-08-06 10:06 - coolo

How does vnc behave if you do a manual VNC installation?

#2 - 2018-08-06 11:06 - nicksinger

coolo wrote:

How does vnc behave if you do a manual VNC installation?

Doesn't seem to be caused by VNC. Manually (qemu/x86_64) all colors are fine and https://openqa.suse.de/tests/1891865#step/welcome/1 also confirms it. For the sake of completeness, let me check s390x too.

This leaves the X/IceWM as leftover suspects, right?

#3 - 2018-08-06 11:17 - okurz

- Category set to 132

nicksinger wrote:

This leaves the X/IceWM as leftover suspects, right?

Yes, I suspect the same. So far we accepted that by creating specific needles.

Would be cool if we find a way to tweak the X server to show the same color range. Maybe you find something during your research on this?

#4 - 2018-08-06 11:39 - nicksinger

- Category deleted (132)

Tested again on s390 kvm with manual VNC connection -> 0xffffff, meaning: works.

#5 - 2018-08-06 11:52 - coolo

hmm, can you bring up test system into this screen so I can do some experiments myself? In dubio take a grenache LPAR :)

#6 - 2018-08-06 13:50 - nicksinger

coolo wrote:
hmm, can you bring up test system into this screen so I can do some experiments myself? In dubio take a grenache LPAR :)

http://loewe.arch.suse.de/tests/1107#live

guess you already know the PW to loewe ;) Please leave it in a workable state without hot-patches since other engineers may require the resources configured on there.

#7 - 2018-08-06 16:01 - coolo

as I suspected: the vnc server of the product defaults to 16bit pixels - which means a natural colour reduction. 4 bits for red and blue and 8 for green - and you can see that the vnc image is a little greener than it should be :)

The trick is to default to full colour (as vncviewer does), but there is no negotiation implemented in os-autoinst. So use depth => 24 in the console setup of "installation"

#8 - 2018-09-14 13:01 - coolo

- Project changed from openQA Project to openQA Tests
- Subject changed from Colors on remote-backends are different to "native" qemu jobs to Change colour depth of product VNC from 16 to 24

#9 - 2018-09-19 14:28 - okurz

- Subject changed from Change colour depth of product VNC from 16 to 24 to [functional][u] Change colour depth of product VNC from 16 to 24
- Category set to Infrastructure
- Target version set to future

I guess it's "infrastructure", or is it?

#10 - 2020-03-09 09:36 - S Lindo Mansilla

- Status changed from New to Rejected
- Assignee set to S Lindo Mansilla

The color differences are not visible anymore:

- x86_64: https://openqa.suse.de/tests/3962902#step/welcome/1
- s390x KVM: https://openqa.suse.de/tests/3962875#step/welcome/1

#11 - 2020-03-09 09:39 - okurz

Cool! Some maybe something actually fixed this? What I see though is slight differences in the font rendering but the important part is that the very same needle is used in both cases.