Tails - Feature #5691

live-build 3.x

07/18/2013 07:44 AM - Tails

<table>
<thead>
<tr>
<th>Status:</th>
<th>Confirmed</th>
<th>Start date:</th>
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<tbody>
<tr>
<td>Priority:</td>
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<td>Due date:</td>
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<td>Assignee:</td>
<td></td>
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<tr>
<td>Category:</td>
<td>Build system</td>
<td>% Done:</td>
<td>20%</td>
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<tr>
<td>Target version:</td>
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<td>Estimated time:</td>
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<tr>
<td>Feature Branch:</td>
<td>feature/live-build-3.x</td>
<td>Spent time:</td>
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<td>Type of work:</td>
<td>Research</td>
<td>Starter:</td>
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<tr>
<td>Blueprint:</td>
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<td>Affected tool:</td>
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Description

live-build 2.x is a pain to install on Wheezy and later, so we have to find a solution to that (be it migrating to live-build 3.x, or to something else). For Tails 1.1, we have kept live-build 2.x, and we provide a custom package thereof, with a version greater than Wheezy's 3.x ([https://tails.boum.org/contribute/build/#manual](https://tails.boum.org/contribute/build/#manual)).

Next thing to do is to decide if we go for live-build 3.x, on the longer term, or something else.

If we go with live-build 3.x:

1. compare the resulting packages list with an ISO built with live-build 2.x (the tasks support was removed, so we could lack a few standard priority packages)
2. review all our lb config options, and make sure they are still valid and taking effect
3. fix the resulting ISO file naming
4. verify that one can still build offline (unsure, given how lb 3.x cleans http_proxy, combined with the broken environment.binary support)
5. patch and/or overlay syslinux config to bring back our preferences that lb 3.x does not support directly anymore (see commit 3458797)
6. see what breaks, report bugs upstream and possibly fix them.

Benefits from live-build 3.x improvements:

- inject variables through config/environment.chroot into the chroot environment (note: environment.binary is broken for us, and environment.chroot can't be used for variables whose value contains spaces)
- use --firmware-chroot true instead of manually listing all firmware packages (not usable for us, see commit 3dee0470)
- save more disk space at build time (#5940)
- the configuration tree is bind-mounted on /root/config in the chroot, and available for hooks

Cons of switching to live-build 3.x:

- basically all configuration files were renamed, which makes it a pain to migrate our many branches; same for a bunch of command-line switches;
- interestingly, live-build 4.x (alpha) has renamed some more files already, and we cannot safely assume this won't go any further.
- Even if we move to live-build 3.x, we still realistically can neither contribute upstream our changes based on this branch, nor backport improvements we might implement in the upstream 4.x branch to the 3.x used in production: in the meantime, quite a bit was rewritten in Python, and source files renamed along the way.

Related issues:

- Related to Tails - Feature #5570: Improve failsafe mode  Rejected
- Related to Tails - Bug #12146: Tails installed using dd is not seen as a boot...  Resolved  12/08/2017
- Copied to Tails - Feature #7217: Build environment compatible with Wheezy  Resolved  05/11/2014

History

#1 - 11/02/2013 09:02 AM - intrigeri
- Subject changed from live-build 3.x to Build environment compatible with Wheezy
- Type of work changed from Test to Research
Raising priority: if we decide to migrate away from live-build 2.x, better do it as early as possible in the 1.1 release cycle.

After many hours of work, I've got a live-build 3.x config tree that builds fine until the binary hooks. I expected this process to be painful. It was worse. And I've no idea how one could review the current devel..feature/live-build-3.x diff.

Anyway, I'll try to get something that works out of it, we'll see.
- Target version deleted (Tails_1.1)
- % Done changed from 10 to 20

#14 - 05/11/2014 12:16 PM - intrigeri
  - Description updated

#15 - 07/19/2014 07:12 PM - BitingBird
  It builds, but doesn't boot.

#16 - 01/02/2015 09:35 PM - BitingBird
  - Blocks Feature #5570: Improve failsafe mode added

#17 - 01/03/2015 11:00 AM - intrigeri
  - Blocks deleted (Feature #5570: Improve failsafe mode)

#18 - 01/03/2015 11:02 AM - intrigeri
  - Related to Feature #5570: Improve failsafe mode added

#19 - 12/08/2017 05:26 PM - intrigeri
  - Related to Bug #12146: Tails installed using dd is not seen as a bootable device on MacBook Pro added

#20 - 03/08/2019 04:07 PM - intrigeri
  - Status changed from In Progress to Confirmed

#21 - 04/08/2019 01:29 PM - intrigeri
  - Blocks deleted (Feature #5940: Save more disk space at build time)