Tails - Bug #17026
Long delay while rebooting after applying an automatic upgrade

09/06/2019 05:38 AM - intrigeri

**Description**

This got reported for the 4.0~beta1 → 4.0~beta2 upgrade. I don't know yet if 3.x is affected.

User report:

The behavior that the first shutdown after the incremental upgrade takes much longer was there again.

I pressed Esc and its one line which is constantly changing between:

(1 of 2) A stop job is running for User Manager for UID 112 ( x / 2 min)
and
(2 of 2) A stop job is running for User Manager for UID 1000 ( x / 2 min)

The x is counting up till 1 min 30 s then:
[ok] Stopped User Manager for UID 112.

and the shutdown process is going on.

On every other shutdown the whole shutdown process is done after a few seconds but after an incremental update it takes minimum one and a half minutes so i think at least after an upgrade the user should see that his computer isn't done with shutting down after a few seconds.

**Related issues:**

Related to Tails - Feature #14544: Spend software developer time on smallish ... In Progress 08/31/2018
Related to Tails - Feature #17313: Tails doesn't restart after applying an au... Confirmed
Blocks Tails - Feature #16209: Core work: Foundations Team Confirmed

**Associated revisions**

Revision 9eb4be6f - 01/12/2020 11:23 AM - intrigeri

Avoid 2 minutes delay while rebooting after applying an automatic upgrade (refs: #17026)

Otherwise, for some reason user@1000.service can't be stopped while rebooting after applying an upgrade until the default 2 minutes timeout is reached:

A stop job is running for User Manager for UID 1000 (x / 2 min)

I suspect that's because the Upgrader is running via sudo as another user, so the amnesia user's systemctl instance is not allowed to kill it and as a result, the entire session is left in running state.

OTOH this problem does not happen when the persistence setup wizard or the Unsafe Brower is left running before rebooting; that's perhaps because they don't run as systemctl units.
UID 112 is Debian-gdm so I was tempted to blame the crazy GDM hacks I've introduced in 4.0~beta2. Except this problem happens while still running 4.0~beta1, so this can't be the explanation.

Besides, the user says "was there again", which suggests they've seen the problem in earlier automatic upgrades. Given that's the first time we offer automatic upgrades on 4.x, it implies they've seen it on 3.x ⇒ not a regression and not a 4.0 release blocker.

Regardless, something wrong is happening that makes user@112.service take 1.5 minutes to stop. Next step to investigate this would be, after applying an automatic upgrade but before restarting, to:

- check what's running in this CGroup
- try to stop user@112.service manually and see what part of it does not stop quickly

I've tried this:

```perl
--- a/config/chroot_local-includes/usr/src/iuk/lib/Tails/IUK/Frontend.pm
+++ b/config/chroot_local-includes/usr/src/iuk/lib/Tails/IUK/Frontend.pm
@@ -720,7 +720,11 @@ method do_incremental_upgrade (HashRef $upgrade_path) {
     method restart_system () {
         $self->info("Restarting the system");
         $self->fatal_run_cmd{
-            cmd => ['/sbin/reboot'],
+            cmd => ['/sbin/reboot'],
+            # Avoid creating a reboot(8) subprocess that would be in the scope
+            # of the amnesia user's session, which could block the reboot
+            # until a timeout is reached, due to the circular dependency
```
But it did not help.

FWIW, during the 4.2 → 4.2.1 upgrade, I only see the reboot blocked by UID 1000, not by UID 112.

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#7 - 01/12/2020 11:21 AM - inrigreri
- Status changed from Confirmed to In Progress
- Assignee set to inrigreri
- Target version set to Tails_4.2.2
- Feature Branch set to bugfix/17425-dont-propose-upgrading-to-running-version
- Type of work changed from Research to Code

#8 - 01/12/2020 12:21 PM - inrigreri
- Status changed from In Progress to Needs Validation
- Assignee deleted (inrigreri)

#9 - 01/13/2020 08:13 AM - inrigreri
- Status changed from Needs Validation to Resolved
- % Done changed from 0 to 100

Applied in changeset tails/7fe156258d45f7f684707e3d4bd0cb6dddb05b343c.