

## openQA Project - coordination #45302

coordination # 58184 (Blocked): [saga][epic][use case] full version control awareness within openQA, e.g. user forks and branches, fully versioned test schedules and configuration settings

### [epic] smarter fetchneedles (was: fetchneedles should ensure we are always on a branch (and try to self-repair))

2018-12-18 14:17 - okurz

<b>Status:</b> Blocked	<b>Start date:</b> 2019-12-20
<b>Priority:</b> Low	<b>Due date:</b>
<b>Assignee:</b> okurz	<b>% Done:</b> 50%
<b>Category:</b> Feature requests	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> future	
<b>Difficulty:</b>	
<b>Description</b>	
<b>Observation</b>	
<pre>[18/12/2018 14:23:00] &lt;guillaume_g&gt; okurz: https://github.com/os-autoinst/os-autoinst-needles-openuse/commits/master seems to not be updated since 5 days! openQA should push updates [18/12/2018 15:01:58] &lt;okurz&gt; guillaume_g: yes, should be. checking..</pre>	
<b>Problem</b>	
Something caused a conflict causing the repo to not stay on the master branch and en	
Fixed with the following:	
<pre>su geekotest cd /var/lib/openqa/share/tests/opensuse/products/opensuse/needles/ git checkout -b fix git add . git commit -m "Add gnucash-tip-close-unfocussed-20181128" -a &amp;&amp; git pull --rebase origin master git rebase --skip git checkout master git rebase fix git pull --rebase origin master &amp;&amp; git push origin HEAD:master git branch -D fix</pre>	
On OSD we have in /etc/cron.d/SLES.CRON:	
<pre># sometimes gitlab.s.d is unresponsive and there are new needles coming in and we did not pull in time before someone created new needles from the webui so make sure this is synced at least once a day 47 3 * * * geekotest (cd /var/lib/openqa/share/tests/sle/products/sle/needles &amp;&amp; git pull --rebase &gt;/dev/null &amp;&amp; git push origin HEAD:master &gt;/dev/null 2&gt;&amp;1)</pre>	
The "fetchneedles" could try to apply all that. Maybe something like the following would be best:	
<pre>sudo -u geekotest sh -c '(cd /var/lib/openqa/share/tests/opensuse/products/opensuse/needles &amp;&amp; &lt;co mmit all locally&gt; &amp;&amp; &lt;fetch all&gt; &amp;&amp; &lt;rebase all, skip conflicting local changes&gt; &amp;&amp; &lt;ensure on val id branch&gt; &amp;&amp; &lt;push all&gt;)'</pre>	
<b>Subtasks:</b>	
action # 61221: osd: unable to save needles, minion fails with "fatal: Unable to create...	<b>New</b>
action # 63133: SLE needles git repo loses upstream branch configuration, needles are ...	<b>Resolved</b>
<b>Related issues:</b>	
Has duplicate openQA Project - action #53672: Using https://openqa.opensuse.o...	<b>Rejected</b> <b>2019-07-02</b>

## History

#1 - 2019-10-09 06:18 - coolo

- Subject changed from *fetchneedles should ensure we are always on a branch (and try to self-repair)* to *EPIC: smarter fetchneedles (was: fetchneedles should ensure we are always on a branch (and try to self-repair))*

- Target version set to *Ready*

I think we should even integrate fetchneedles into openQA and have a UI for what to checkout/update and on what schedule - taken that we git commit into it, we should also git checkout

#### **#2 - 2019-10-17 12:35 - okurz**

- Subject changed from *EPIC: smarter fetchneedles (was: fetchneedles should ensure we are always on a branch (and try to self-repair))* to *[epic] smarter fetchneedles (was: fetchneedles should ensure we are always on a branch (and try to self-repair))*

- Parent task set to *#58184*

#### **#3 - 2019-10-24 09:21 - mkittler**

[okurz](#) You proposed making this a Minion job so we can prevent conflicts with the other Minion jobs to save/delete needles. That would also allow an easier integration with the web UI.

Having a brief look at the fetchneedles code it seems that it has a more advanced logic than I'd expected. Maybe we can just invoke the Bash script from Perl? On the other hand the script should be generally improved (e.g. it hard codes `/var/lib` as `OPENQA_BASEDIR`).

#### **#4 - 2019-11-19 05:48 - okurz**

So what I think we can do is to start the fetchneedles script by a minion job which should be easy but not try to re-write fetchneedles itself for now. I would keep any further improvements to handling all tests+needles better with git and potentially do not keep global needle repo when we can handle that as git.

#### **#5 - 2019-12-18 12:06 - SLindoMansilla**

On a shared branch, if more than one person commits changes, the only way to not cause troubles to other is to use merge, which will not change the commit tree. Using rebase for example, will cause that all others will need to "fix" their tree.

Since commits to needle repositories can come from the repositories webui (gitlab and github) and from the openQA webui (interactive/developer mode), there is always a risk of hitting that tree divergence.

I already solved problems like these in my previous company and my suggestion for a general solution with minimal changes on the infrastructure is:

That openQA webui doesn't commit to master, but to another branch (for example a branch called `o3` for `openqa.opensuse.org` and one branch called `osd` for `openqa.suse.de`). These branches will hold the current status of production environments. openQA will then periodically fetch and merge master branch from `$origin` onto `o3/osd` branch and push changes to `$origin o3/osd`.

Users/developers should then just track `o3` for openSUSE needles and `osd` for SLE needles, and they will have the latest status of production environments.

#### **#6 - 2019-12-18 12:10 - SLindoMansilla**

Another problem to solve is that git was not develop so that two people can work on the same working directory at the same time. So that if they both perform an operation, they will likely cause troubles to each other.

So, the developer/interactive mode should avoid two operation at the same time. I suggest to implement an operation queue.

#### **#7 - 2019-12-18 12:37 - okurz**

SLindoMansilla wrote:

So, the developer/interactive mode should avoid two operation at the same time. I suggest to implement an operation queue.

It already does. needle saving is done by enqueueing gru jobs. What is not done in the same way is that fetchneedles can conflict in parallel.

#### **#8 - 2020-04-23 20:38 - okurz**

- Has duplicate action *#53672: Using <https://openqa.opensuse.org/admin/needles> ran into some problems on the git repo on multi-needle delete added*

#### **#9 - 2020-10-12 13:37 - szarate**

- Tracker changed from *action* to *coordination*

#### **#10 - 2020-10-12 13:46 - szarate**

See for the reason of tracker change: <http://mailman.suse.de/mailman/private/qa-sle/2020-October/002722.html>

#### **#11 - 2020-10-17 21:56 - okurz**

- Status changed from *New* to *Blocked*

- Assignee set to okurz

waiting for specific subtask [#61221](#)

**#12 - 2021-05-07 11:15 - okurz**

- Target version changed from Ready to future

<https://progress.opensuse.org/issues/92022#note-4>