HowToMakeARelease

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Write release notes

The release notes are written in latex and located in svn in the respective release branch in Documents/ReleaseNotes/. The main latex file is ReleaseNotes.tex, it includes the other tex-files as necessary.

- Edit the necessary files, and commit them.
  To create a pdf file from it, run

  $ pdflatex ReleaseNotes.tex

- Open the generated pdf file and check that it is correct, e.g. that also the version numbers have been updated.
- Append the version number to the file: mv ReleaseNotes.tex ReleaseNotes-x.y.z.pdf

Set version number

Once we are sure we have the final version, remove the "rcX" from the version number in the toplevel CMakeLists.txt and commit this to the release branch.

Build it (for >= 2.2.0)

To build the release package, log in to one of the terminal servers, and create a temporary directory for building.
Then run the script Utilities/Releases/PSProCreateRelease to build it:

    $ mkdir tmp
    $ cd tmp
    $ PSProCreateRelease branches/release/2.2

This will produce two rpm files for the respective version
  - PreStackPRO-x.y.z-x86_64.rpm , which contains everything
  - PreStackPROClient-x.y.z-x86_64.rpm , which contains only the client

Test it

Copy the generated executables to some machine where they can be executed and do a quick test for all three versions.
At least: start them, load a project, select a FRD, visualize it, for each of the three versions.
Check if the algorithms in the menu fit to the version that is executed and there are no algorithms missing or wrong algorithms included.

Get signature from boss

In svn, in Documents/ReleaseDelivery/ is a text document (templatePSP_Auslieferungsgenehmigung.odt), which must be filled out and signed by Franz-Josef, before the release may be distributed.

Distribute it

- Copy the two rpm files together with the ReleaseNotes-x.y.z.pdf to the directory /p/hpc/psp/Releases/x.y.z/ .
- Create directory /prog/GPI/bin/vx.y.z on the cluster nodes (dell01..08, etc.) and put the binaries there
- Put the two rpms onto the Google drive in the Releases/ subdir

Notify people

Once the rpms are on the google drive (see above), notify Sebastien and/or Bill, they take care of the rest.

Tag it

Create the tag in svn, under tags/release/x.y.z/ :

```
$ svn copy https://svn.itwm.fhg.de/svn/PreStackPro/branches/release/x.y
https://svn.itwm.fhg.de/svn/PreStackPro/tags/release/x.y.z
```

Increase version number

Now that the version x.y.z has been released, increase the version number in the release branch to x.y.z+1.rc1.

Adjust roadmap on plan.io

Now that version x.y.z has been released:
- create a new milestone "x.y.z+1" on plan.io
- move all tickets, which are still open and which are assigned to x.y.z to this new milestone
- via Settings -> Milestones, edit the old milestone:
  - set the status to "Closed"
  - put the current date in the date field
- Adjust the "Custom query" for the new release
  - execute the old query
  - Edit
  - Rename it
  - Change the Target milestone

Sharp Reflections part (Sebastien/Bill)

- Upload the RPMs + Release notes in PSProSupport/Documents in plan.io: https://pspro.plan.io/projects/psprosupport/documents
- Upload the full RPM on the Evaluation project: https://pspro.plan.io/documents/49
- Write a text on the blog: https://pspro.plan.io/projects/psprosupport/news
- Send a mail to all users

Scan the Release Notes and for all bugs corrected, find the corresponding ticket in PSProSupport plan.io project:
- Notify the reporter that a fix is included in 3.2.1 and encourage him to upgrade
- Change the status to "Closed".

Also, install the new release on the Dell clusters if not done yet.