

RhodeCode CE/EE - Bug #5540

Rhode Code 4.15.2 VCS Caching(?) behaviour

22.02.2019 16:23 - Markus Leitold

Status:	New	Start date:	22.02.2019
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Sorting:		Affected Version:	v4.15
Commit Number:			

Description

Hi everybody,

we just installed RhodeCode CE 4.15.2 on top of our existing SVN environment with existing repositories. Till today we access these SVN repos with Apache/mod_dav_svn and Tortoise SVN Client at Windows - Client side.

To make these repos available to RhodeCode, we soft - linked them to the RhodeCode data dir and did a "Remap and Rescan" in RhodeCode web admin, so the repos appear in RhodeCode.

But after a very short time of usage we came accross some strange behaviour of RhodeCode.

To track this down we created a SVN test repository (rhodecode_test) by using Linux cmdline "svnadmin create..." at the server. Then we did some standard tasks with Tortoise over Apache (create trunk/branches/tags folder structure, checkout, commit files / changes) as can be seen in the Tortoise screenshot:

7a.png

Now we open the Repo in RhodeCode (with a SuperAdmin account) and do see ... nothing... no commits, no changelog, no history

2b.png

3a.png

When we hit Browsers "Refresh" 10-20 times somewhen we suddenly see the commits.

1a.png

A few refreshes later they are gone and the repo seems to be empty (or an older state) again.

Sometimes a refresh leads to a "500 - Internal Server Error" with this in the community.log:

Traceback (most recent call last):

```
File "
/opt/rhodecode/store/mcjhq84p171b42cwjlszbz8611ir1b8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/tweens.py", line 39, in excview_tween
    response = handler(request)
File "
/opt/rhodecode/store/mcjhq84p171b42cwjlszbz8611ir1b8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/router.py", line 156, in handle_request
    view_name
File "
/opt/rhodecode/store/mcjhq84p171b42cwjlszbz8611ir1b8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/view.py", line 642, in _call_view
    response = view_callable(context, request)
File "
/opt/rhodecode/store/mcjhq84p171b42cwjlszbz8611ir1b8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/viewderivers.py", line 390, in attr_view
    return view(context, request)
File "
/opt/rhodecode/store/mcjhq84p171b42cwjlszbz8611ir1b8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/viewderivers.py", line 368, in predicate_wrapper
```

```

    return view(context, request)
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/viewderivers.py", line 462, in rendered_view
    request, result, view_inst, context)
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/renderers.py", line 435, in render_view
    return self.render_to_response(response, system, request=request)
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/renderers.py", line 458, in render_to_response
    result = self.render(value, system_values, request=request)
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/renderers.py", line 454, in render
    result = renderer(value, system_values)
File "
/opt/rhodecode/store/jzd3fzwl5kzc5k1f14spfjp4sm142h52-python2.7-pyramid-mako-1.0.2/lib/python2.7/s
ite-packages/pyramid_mako/__init__.py", line 156, in __call__
    reraise(MakoRenderingException(errtext), None, exc_info[2])
File "
/opt/rhodecode/store/jzd3fzwl5kzc5k1f14spfjp4sm142h52-python2.7-pyramid-mako-1.0.2/lib/python2.7/s
ite-packages/pyramid_mako/__init__.py", line 148, in __call__
    result = template.render_unicode(**system)
File "
/opt/rhodecode/store/ida848f1ziml06glki8mawhi38h2k4fv-python2.7-mako-1.0.7/lib/python2.7/site-pack
ages/mako/template.py", line 471, in render_unicode
    as_unicode=True)
File "
/opt/rhodecode/store/ida848f1ziml06glki8mawhi38h2k4fv-python2.7-mako-1.0.7/lib/python2.7/site-pack
ages/mako/runtime.py", line 838, in _render
    **_kwargs_for_callable(callable_, data))
File "
/opt/rhodecode/store/ida848f1ziml06glki8mawhi38h2k4fv-python2.7-mako-1.0.7/lib/python2.7/site-pack
ages/mako/runtime.py", line 873, in _render_context
    _exec_template(inherit, lclcontext, args=args, kwargs=kwargs)
File "
/opt/rhodecode/store/ida848f1ziml06glki8mawhi38h2k4fv-python2.7-mako-1.0.7/lib/python2.7/site-pack
ages/mako/runtime.py", line 899, in _exec_template
    callable_(context, *args, **kwargs)
File "_base_root_mako", line 98, in render_body
File "_base_base_mako", line 54, in render_body
File "_summary_summary_base_mako", line 62, in render_main
File "rhodecode_templates_summary_summary_mako", line 69, in render_main
File "_summary_components_mako", line 165, in render_summary_detail
File "
/opt/rhodecode/store/rq6n4kdw9z8d44km9njnr5rxyh01p4h-python2.7-zope.cachedescriptors-4.3.1/lib/py
thon2.7/site-packages/zope/cachedescriptors/property.py", line 106, in __get__
    value = func(inst)
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/lib/vcs/backends/svn/repository.py", line 103, in branches
    return self._tags_or_branches('vcs_svn_branch')
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/lib/vcs/backends/svn/repository.py", line 133, in
_tags_or_branches
    tip = self.get_commit()
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/lib/vcs/backends/svn/repository.py", line 266, in get_commit
    commit = SubversionCommit(repository=self, commit_id=commit_id)
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/lib/vcs/backends/svn/commit.py", line 51, in __init__
    self.idx = self.repository._get_commit_idx(commit_id)

```

```

File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/lib/vcs/backends/svn/repository.py", line 201, in
_get_commit_idx
    "Commit at index %s does not exist." % (commit_idx, )
MakoRenderingException:

Traceback (most recent call last):
File "
/opt/rhodecode/store/jzd3fzw15kzc5k1f14spfjp4sm142h52-python2.7-pyramid-mako-1.0.2/lib/python2.7/s
ite-packages/pyramid_mako/__init__.py", line 148, in __call__
    result = template.render_unicode(**system)
File "
/opt/rhodecode/store/ida848f1ziml06glki8mawhi38h2k4fv-python2.7-mako-1.0.7/lib/python2.7/site-pack
ages/mako/template.py", line 471, in render_unicode
    as_unicode=True)
File "
/opt/rhodecode/store/ida848f1ziml06glki8mawhi38h2k4fv-python2.7-mako-1.0.7/lib/python2.7/site-pack
ages/mako/runtime.py", line 838, in _render
    **kwargs_for_callable(callable_, data))
File "
/opt/rhodecode/store/ida848f1ziml06glki8mawhi38h2k4fv-python2.7-mako-1.0.7/lib/python2.7/site-pack
ages/mako/runtime.py", line 873, in _render_context
    _exec_template(inherit, lclcontext, args=args, kwargs=kwargs)
File "
/opt/rhodecode/store/ida848f1ziml06glki8mawhi38h2k4fv-python2.7-mako-1.0.7/lib/python2.7/site-pack
ages/mako/runtime.py", line 899, in _exec_template
    callable_(context, *args, **kwargs)
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/templates/base/root.mako", line 143, in render_body
    ${next.body()}
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/templates/base/base.mako", line 32, in render_body
    ${next.main()}
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/templates/summary/summary_base.mako", line 28, in render_main
    ${next.main()}
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/templates/summary/summary.mako", line 26, in render_main
    ${components.summary_detail(breadcrumbs_links=self.breadcrumbs_links(), show_downloads=True)}
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/templates/summary/components.mako", line 95, in
render_summary_detail
    ${refs_counters(
File "
/opt/rhodecode/store/rq6n4kdw9z8d44km9njnr5rxyh01p4h-python2.7-zope.cachedescriptors-4.3.1/lib/py
thon2.7/site-packages/zope/cachedescriptors/property.py", line 106, in __get__
    value = func(inst)
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/lib/vcs/backends/svn/repository.py", line 103, in branches
    return self._tags_or_branches('vcs_svn_branch')
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/lib/vcs/backends/svn/repository.py", line 133, in
_tags_or_branches
    tip = self.get_commit()
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/lib/vcs/backends/svn/repository.py", line 266, in get_commit
    commit = SubversionCommit(repository=self, commit_id=commit_id)
File "

```

```
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/lib/vcs/backends/svn/commit.py", line 51, in __init__
    self.idx = self.repository._get_commit_idx(commit_id)
File "
/opt/rhodecode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhodecode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhodecode/lib/vcs/backends/svn/repository.py", line 201, in
_get_commit_idx
    "Commit at index %s does not exist." % (commit_idx, )
CommitDoesNotExistError: Commit at index 7 does not exist.
```

Similar behaviour when we want to see the details of a commit. When we are able to see the Changelog and click on a commit, we can see its details. Hitting refresh again a few times lead to RhodeCodes "404 - not found" error page.

Could all this be some sort of caching problem?
Because in rhodecode.ini setting this:

```
## use cache version of scm repo everywhere
vcs_full_cache = true
```

to "false" seem to solve the problems, now all page refreshes in RhodeCode are/stay up-to-date immediatly.

But wouldn't this lead to performance issues esp. on bigger repos?

When "vcs_full_cache" is set to true and doing a "Invalidate repository cache" on the test repository also leads to a correct view - until new commits reach the repo which makes invalidating the cache necessary again... but then the cache would be completely useless.

Another issue:

In one of our productive repos opening a specific commit leads reproduceable to RhodeCodes "500 Internal Server Error" page, this exception is in "community.log":

```
2019-02-22 11:22:36.843 ERROR [rhodecode.config.middleware] error occurred handling this request
for path: /rhodecode/main/changeset/212301
Traceback (most recent call last):
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/tweens.py", line 39, in excview_tween
    response = handler(request)
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/router.py", line 156, in handle_request
    view_name
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/view.py", line 642, in _call_view
    response = view_callable(context, request)
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/viewderivers.py", line 390, in attr_view
    return view(context, request)
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/viewderivers.py", line 368, in predicate_wrapper
    return view(context, request)
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/viewderivers.py", line 410, in viewresult_to_response
    result = view(context, request)
File "
/opt/rhodecode/store/mcjhzq84p171b42cwjlszbz8611irlb8-python2.7-pyramid-1.9.2/lib/python2.7/site-p
ackages/pyramid/viewderivers.py", line 138, in _class_view
```

```

    response = getattr(inst, attr)()
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/lib/auth.py", line 2352, in local_wrapper
    return wrapper(func, *args, **kwds)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/lib/auth.py", line 1665, in __wrapper
    return func(*fargs, **fkwards)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/lib/auth.py", line 2352, in local_wrapper
    return wrapper(func, *args, **kwds)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/lib/auth.py", line 1739, in __wrapper
    return func(*fargs, **fkwards)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/apps/repository/views/repo_commits.py", line 273, in
repo_commit_show
    return self._commit(commit_id, method='show')
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/apps/repository/views/repo_commits.py", line 203, in _commit
    diffset, _parsed, commit1.raw_id, commit2.raw_id)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/apps/_base/__init__.py", line 307, in render_patchset_filtered
    filtered_patchset, source_ref=source_ref, target_ref=target_ref)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/lib/codeblocks.py", line 414, in render_patchset
    filediff = self.render_patch(patch)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/lib/codeblocks.py", line 531, in render_patch
    hunkbit = self.parse_hunk(hunk, source_file, target_file)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/lib/codeblocks.py", line 578, in parse_hunk
    self.parse_lines(before, after, source_file, target_file, no_hl=no_hl)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/lib/codeblocks.py", line 671, in parse_lines
    original.content = render_tokenstream(o_tokens)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/lib/codeblocks.py", line 164, in render_tokenstream
    escaped_text = html_escape(token_text)
File "
/opt/rhocode/store/8g71brmqhd8vrka0n6sk5k2icw2diwdd-python2.7-rhocode-enterprise-ce-4.15.2/lib
/python2.7/site-packages/rhocode/lib/helpers.py", line 126, in html_escape
    return text.translate(html_escape_table)
TypeError: expected a string or other character buffer object

```

In this commit a sql text file and a Excel (xlsx) binary file was changed.

We were not able to reprocode this in the Test - Repo. In this we committed the same files from the mentioned commit in the productive repo and here the commit display is normal.

During all these tests we directly connect to RhodeCode Community on Port 10020 so there is no Apache Reverse (Caching) Proxy involved.

This is our RhodeCode installation:

```
# rccontrol status
RHODECODE CONTROL VERSION: 1.21.1

- NAME: community-1
- STATUS: RUNNING
  logs:/root/.rccontrol/community-1/community.log
- VERSION: 4.15.2 Community
- VCS: vcserver-1
- URL: http://0.0.0.0:10020
- CONFIG: /root/.rccontrol/community-1/rhodecode.ini

- NAME: vcserver-1
- STATUS: RUNNING
  logs:/root/.rccontrol/vcserver-1/vcserver.log
- VERSION: 4.15.2 VCSServer
- URL: http://127.0.0.1:10010
- CONFIG: /root/.rccontrol/vcserver-1/vcserver.ini
```

Thx in advance for any hint!
Markus

History

#1 - 22.02.2019 17:19 - Marcin Kuzminski [staff]

Hi Markus,

The issue you're describing looks like a problem with cache invalidation. This is indeed somehow related to `vcs_full_cache` setting. Normally how it works is that during the push rhodecode notifies its caches that something changed and cache should be invalidated. This for SVN backend is handled by hooks inside SVN repositories. I suspect that maybe your repositories already have some hooks and RhodeCode doesn't override them preventing any data losses.

You could force install the hooks by going to such url:

http://you-server-address/REPO_NAME/settings/advanced/hooks

This should re-install RhodeCode SVN hooks for this particular repository.

Regarding the second issue, could you share the test repository with us so we can investigate this?

Best,

#2 - 25.02.2019 11:53 - Markus Leitold

- File 8.png added

Hi Marcin,

now things become clear in our productive repo we indeed already have post- and pre-commit hooks (perl-written) which weren't overwritten by RhodeCodes "Remap and Rescan" and they have to stay and work beside RhodeCode. So it was very good they were not overwritten, so force - install RhodeCodes Hooks will not be a solution.

In the mentioned test repo we didn't have hooks, of course. After "Remap and Rescan" we noticed, that every SVN commit fails with an error like

"Commit was blocked by pre-commit hook with no output (error 255)":

8.png

At this point we noticed for the first time the hooks which RhodeCode installed. After deleting them, commits work again but "Remap and Rescan" re-installed the RhodeCode hooks and commits failed again. So we delete the hooks again and installed a "dummy" pre- and post-commit hook which just do an "exit 0" to prevent RhodeCode from installing its own hooks, which don't work in our environment. We assumed we safely could do that, because we thought the RhodeCode hooks just where necessary when our own hooks would be managed in RhodeCode, too.

All this now leads to two questions when RhodeCodes hooks are needed for the caching behaviour:

-> How could the RhodeCode hooks exists beside our own hooks?

-> Why do RhodeCode hooks errors out in our environment? They are written in python, aren't they? Python 2.7.13 is installed...

Ahh... and what about the secons issue, the reproducable "500 internal server error" while opening one specific commit in the productive repo? ("TypeError: expected a string or other character buffer object")

#3 - 25.02.2019 11:59 - Markus Leitold

I just noticed the #! line in the RhodeCode hooks... this could be the cause that the hooks fail, this line is:

```
#!/root/.rccontrol/vcsserver-1/profile/bin/python
```

The commits are triggered by Apache, as the Windows Tortoise clients access the repos with "https://..." over Apaches mod_dav_svn. Apache is running as non-root user, so of course Apache may not access "/root/....".... I track this down further...

#4 - 25.02.2019 16:16 - Markus Leitold

Indeed wwwrun (the user which runs Apache) isn't (of course) allowed to run anything under /root ...

So to make RhodeCodes hooks work in this constellation one has to install it as "wwwrun", not "root". Then the hooks will work ... but what about the existing perl-written hooks?

#5 - 25.02.2019 16:25 - Marcin Kuzminski [staff]

Dear Markus -

Our hooks are a simple self-contained python script. I believe in the case of your perl custom SVN hooks, you could simply run our hook from within your perl scripts (maybe as a subprocess call?) The hooks use environment variables to read some data, just make sure the execution from Perl passed the environment into our script.

Why those hooks are required? They act as a trigger for:

- cache invalidation
- integrations triggering
- rcextensions calls

Potentially you don't need to have those hooks as all 3 are optional, and cache invalidation can be trigger via API call from your perl script, or even periodically every N minutes or so.

#6 - 25.02.2019 16:36 - Markus Leitold

Hi Marcin,

thx for the explanations ... as we will use RhodeCode just for simple Code-Reviews and not for anything else the cache invalidation would be the only reason to use your hooks IMHO.

How could these be triggered from our own perl hooks? 1.) They aren't installed when our hooks are existing, 2.) the permission problem as describe above will remain 3.) if we simply copy/rename (from) your installed hooks then newer hook versions during RhodeCode updates will never be considered.

So I think the cache invalidation would best be done through API Calls, I'll try to figure out how this exactly works

#7 - 25.02.2019 17:01 - Markus Leitold

OK, very simple... I managed to trigger the cache - invalidation by a curl - request in a post-commit hook in the test-repo ... now everything concerning caching seems to work now

Files			
7a.png	33 KB	22.02.2019	Markus Leitold
3a.png	24.6 KB	22.02.2019	Markus Leitold
1a.png	34.5 KB	22.02.2019	Markus Leitold
2b.png	26.3 KB	22.02.2019	Markus Leitold
8.png	25.1 KB	25.02.2019	Markus Leitold