

Walkthrough: Updating a patch that requires a rebase

When you have to make changes to an existing patch based on reviewer's comments, here's what you do within the openstack-manuals directory.

```
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
Fetching origin
remote: Counting objects: 13, done.
remote: Compressing objects: 100% (13/13), done.
remote: Total 13 (delta 3), reused 4 (delta 0)
Unpacking objects: 100% (13/13), done.
From http://github.com/openstack/openstack-manuals
   ab516ce..9a74743  master    -> origin/master
   17490d2..4a4e294  stable/icehouse ->
origin/stable/icehouse
Fetching gerrit
From ssh://review.openstack.org:29418/openstack/openstack-
manuals
   ab516ce..9a74743  master    -> gerrit/master
   17490d2..4a4e294  stable/icehouse ->
gerrit/stable/icehouse
From http://github.com/openstack/openstack-manuals
 * branch          master    -> FETCH_HEAD
Updating ab516ce..9a74743
Fast-forward
 doc/common/entities/openstack.ent      | 8 +++
 doc/common/section_cli_install.xml     | 9 ++-
 doc/user-guide/section_cli_swift_howto.xml | 7 +-
 doc/user-guide/section_object-api-versioning.xml | 171
+++++
 4 files changed, 187 insertions(+), 8 deletions(-)
 create mode 100644 doc/user-guide/section_object-api-
versioning.xml
usage: git review [OPTIONS] ... [BRANCH]
git-review: error: unrecognized arguments: 139746
Annes-MacBook-Pro:user-guide annegentle$ git review -d
139746
Downloading refs/changes/46/139746/3 from gerrit
Branch already exists - reusing
Switched to branch "review/erik_wilson/bug/1392382"
```

This gets to a known state, with your branch that needs merging. Next you can do the interactive rebase:

git rebase -i master

Then an editor comes up:

```
pick 05fc552 Adds serialized response formats to End User
Guide

# Rebase 9a74743..05fc552 onto 9a74743
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the commit message
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# f, fixup = like "squash", but discard this commit's log
message
# x, exec = run command (the rest of the line) using shell
#
# These lines can be re-ordered; they are executed from top
to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
#
# However, if you remove everything, the rebase will be
aborted.
#
# Note that empty commits are commented out
~
```

Leave the editor as-is, and do `esc+:wq` to save and quit.

```
error: could not apply 05fc552... Adds serialized response
formats to End User Guide
```

When you have resolved this problem, run "git rebase --continue".

If you prefer to skip this patch, run "git rebase --skip" instead.

To check out the original branch and stop rebasing, run "git rebase --abort".

```
Could not apply 05fc55210a580dffacb72cf65988f979d9870fa8...
Adds serialized response formats to End User Guide
```

When git tells you "When you have resolved this problem, run "git rebase..."", you can do this command:

git status

To find out what files are in conflict.

```
rebase in progress; onto 9a74743
You are currently rebasing branch
'review/erik_wilson/bug/1392382' on '9a74743'.
  (fix conflicts and then run "git rebase --continue")
  (use "git rebase --skip" to skip this patch)
  (use "git rebase --abort" to check out the original
branch)
```

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

```
new file:   section_object-api-env-vars.xml
new file:   section_object-api-response-formats.xml
```

Unmerged paths:

(use "git reset HEAD <file>..." to unstage)
(use "git add <file>..." to mark resolution)

```
both modified:   section_cli_swift_howto.xml
```

Untracked files:

(use "git add <file>..." to include in what will be committed)

```
../common/section_networking-plugins-brocade.xml
../common/section_networking-plugins-nsx.xml
../common/section_networking-plugins-plumgrid.xml
../rackbook.rng
../../www/common/
```

In this case, **both modified:** `section_cli_swift_howto.xml` is the file you have to edit.

Open it up in Oxygen, and you'll see >>>>>> in places where git itself couldn't figure out what to do. So you have to keep what you want and delete what you don't.

```
23 <<<<<<< HEAD
24 <para>To create a container, run the following command a
25 <replaceable>CONTAINER</replaceable> with the name o
26 container.</para>
27 <screen><prompt>$</prompt> <userinput>swift post
27 <replaceable>CONTAINER</replaceable></userinput></screen></listi
28 </listitem>
29 <para>To list all containers, run the following command:</
30 <screen><prompt>$</prompt> <userinput>swift list</userinpu
31 </listitem>
32 =====
33 <para>To create a container, run the following command a
34 replace <replaceable>CONTAINER</replaceable> with the
35 of your container.</para>
36 <screen><prompt>$</prompt> <userinput>swift post <replac
37 </listitem>
38 </listitem>
39 <para>To list all containers, run the following
40 command:</para>
41 <screen><prompt>$</prompt> <userinput>swift list</userin
42 </listitem>
43 >>>>>> 05fc552... Adds serialized response formats to End User
44 </listitem>
```

```

139         following command:</para>
140 <<<<<< HEAD
141     <screen><prompt>$</prompt> <userinput>swift download <replace
141 <replaceable>OBJECT_FILENAME</replaceable></userinput></screen>
142     </listitem>
143 </itemizedlist>
144 </section>
145 <xi:include href="section_object-api-versioning.xml"/>
146 =====
147     <screen><prompt>$</prompt> <userinput>swift download <rep
147 <replaceable>OBJECT_FILENAME</replaceable></userinput></screen>
148     </listitem>
149 </itemizedlist>
150 </section>
151 <xi:include href="section_object-api-env-vars.xml"/>
152 <xi:include href="section_object-api-response-formats.xml"/>
153 >>>>>> 05fc552... Adds serialized response formats to End User G
154 </section>
155

```

I edited these in Oxygen. The top image is because of the wrap change. The second one is from the xi:include being inserted.

Here's what it'll look like, fixed.

```

    <screen><prompt>$</prompt> <userinput>swift download
<replaceable>CONTAINER</replaceable>
<replaceable>OBJECT_FILENAME</replaceable></userinput></screen>    </lis
titem> </itemizedlist> </section> <xi:include href="section_object-api-
versioning.xml"/> <xi:include href="section_object-api-env-
vars.xml"/> <xi:include href="section_object-api-response-
formats.xml"/></section>

```

So then I save the file in Oxygen.

Then go back to Terminal and do this:

```
$ git add section_cli_swift_howto.xml
```

```
$ git rebase --continue
```

Then the editor comes up again, you don't have to edit, just save and quit (esc+[colon]again).

```
Adds serialized response formats to End User Guide
```

```
With the moving of the Object Storage API content from a long-form dev guide to a specification, some topics needed to be added to the End User Guide. Also included linked environment variables topic.
```

```
Change-Id: I6b8cee64e0bb7ea8ba7291aea31b4b7853f214a3  
Partial-bug: 1392382
```

```
# Please enter the commit message for your changes. Lines starting  
# with '#' will be ignored, and an empty message aborts the commit.
```

```
#
```

```
# Author: Erik Wilson <erik.wilson@rackspace.com>
```

```
#
```

```
# rebase in progress; onto 9a74743
```

```
# You are currently rebasing branch
```

```
'review/erik_wilson/bug/1392382' on '9a74743'.
```

```
#
```

```
# Changes to be committed:
```

```
#   modified:   doc/user-
```

```
guide/section_cli_swift_howto.xml
```

```
#   new file:   doc/user-guide/section_object-api-env-  
vars.xml
```

```
#   new file:   doc/user-guide/section_object-api-  
response-formats.xml
```

```
#
```

```
# Untracked files:
```

```
#   doc/common/section_networking-plugins-brocade.xml
```

```
#   doc/common/section_networking-plugins-nsx.xml
```

```
#   doc/common/section_networking-plugins-plumgrid.xml
```

```
#   doc/rackbook.rng
```

```
#   www/common/
```

Then you should see this:

```
[detached HEAD 4a0fef1] Adds serialized response formats to  
End User Guide
```

```
Author: Erik Wilson <erik.wilson@rackspace.com>
```

```
3 files changed, 248 insertions(+), 52 deletions(-)
create mode 100644 doc/user-guide/section_object-api-env-
vars.xml
create mode 100644 doc/user-guide/section_object-api-
response-formats.xml
```

Successfully rebased and updated
refs/heads/review/erik_wilson/bug/1392382.

Then do git review again to upload this new commit to
review.openstack.org.

```
Annes-MacBook-Pro:user-guide annegentle$ git review -v
2014-12-11 15:40:47.694680 Running: git log --color=never -
-oneline HEAD^1..HEAD
2014-12-11 15:40:47.699090 Running: git remote
2014-12-11 15:40:47.701461 Running: git branch -a --
color=never
2014-12-11 15:40:47.705713 Running: git rev-parse --show-
toplevel --git-dir
2014-12-11 15:40:47.708886 Running: git remote update
gerrit
Fetching gerrit
2014-12-11 15:40:51.581938 Running: git rebase -i
remotes/gerrit/master
2014-12-11 15:40:51.768878 Running: git reset --hard
ORIG_HEAD
2014-12-11 15:40:51.783497 Running: git config --get
color.ui
2014-12-11 15:40:51.786063 Running: git log --color=always
--decorate --oneline HEAD --not remotes/gerrit/master --
2014-12-11 15:40:51.797337 Running: git branch --
color=never
Using change number "bug/1392382" for the topic of the
change submitted
2014-12-11 15:40:51.801692 Running: git push gerrit
HEAD:refs/publish/master/bug/1392382
remote: Resolving deltas: 100% (4/4)
remote: Processing changes: updated: 1, refs: 1, done
To
ssh://annegentle@review.openstack.org:29418/openstack/opens
tack-manuals.git
* [new branch] HEAD ->
refs/publish/master/bug/1392382
2014-12-11 15:40:54.427630 Running: git rev-parse --show-
toplevel --git-dir
```

When you see Processing changes: updated: 1, your change is now available on review.openstack.org. Go to the original link to see the next patch set in Gerrit.