

# How to compare two revisions in Bitbucket?

Asked 5 years, 6 months ago   Active 2 days ago   Viewed 52k times



114

My team is using Bitbucket for our git repository and we've recently starting using the pull request functionality for code reviews. It works fine on the first review, but if it goes through multiple iterations (that is, changes are made and pull request updated), I would like to see a link with just the new changes that were made since the last code review.



I looked into the "compare" functionality but the UI looks like it can only compare between branches. Is there a simple way to get a diff between two commits?



26



edited Oct 6 '18 at 0:44



Machavity

25.3k

15

63

83

asked Jan 29 '14 at 16:42



brian.keng

1,091

2

11

11

Intro into [working with pull requests](#) or [commit-level review](#) a new feature in bitbuck 4.8 – [surfmuggle](#) Dec 9 '16 at 6:37

## 11 Answers



89

This is just a slight modification to the answers already given but adding #diff to the end instead of #commits is usually what I'm looking for. Also as others may have mentioned the best results for me are usually obtained by placing the newer commit first and the older one second but that will depend on your particular needs.



`https://bitbucket.org/<OWNER>/<REPO>/branches/compare/<commit-hash>..<commit-hash-older>#diff`

answered Aug 3 '15 at 20:11



Night Owl

3,415

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22

33

I wish they would add some intuitive gui to track commit revision (similar to gerrit) – [dolbi](#) Mar 28 '17 at 5:52

1 I tried this answer today without success. Can anyone verify that it's still valid with the current version of Bitbucket? – [Martin Stålberg](#) Oct 31 '17 at 10:03

I just tried this with two commits from the tortoisehg project and it still appears to work. Here is an example link:  
[bitbucket.org/tortoisehg/thg/branches/compare/...](https://bitbucket.org/tortoisehg/thg/branches/compare/...) – [Night Owl](#) Nov 5 '17 at 18:39

1 Worked great. Inserted the owner/repo , copied the hashes from the commit-list, hit enter, and bam. Nice and easy diff view. 🍷 (Why this isn't an obvious thing in their GUI however...) – [Svish](#) Dec 18 '17 at 20:29

1 @NightOwl - Are you using Stash/bitbucket server? If so, this only works on bitbucket.org - [jira.atlassian.com/browse/BSERV-2550](https://jira.atlassian.com/browse/BSERV-2550) – [Cinderhaze](#) May 23 '18 at 20:04

Try something like:

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`https://bitbucket.org/<OWNER>/<PROJECT>/branches/compare/<commit1>...<commit2>#commits`

Taken from: <https://bitbucket.org/site/master/issue/4779/ability-to-diff-between-any-two-commits>

answered Sep 1 '14 at 2:26



[Aguardientico](#)

6,235 1 24 29

Does not work in version 4.14. Gives a Dead Link error when you add anything after `compare/` including the above. – [Juha Untinen](#) Aug 6 '18 at 10:22



Same with the other syntax mentioned in [bitbucket.org/site/master/issues/11657/...](https://bitbucket.org/site/master/issues/11657/...) which gives just a generic 404 and the path under it. – [Juha Untinen](#) Aug 6 '18 at 10:25

Bitbucket supports comparing tags now.

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`https://bitbucket.org/<OWNER>/<PROJECT>/branches/compare/<tag1>%0D<tag2>`

answered Jun 26 '16 at 22:26



[Tao](#)

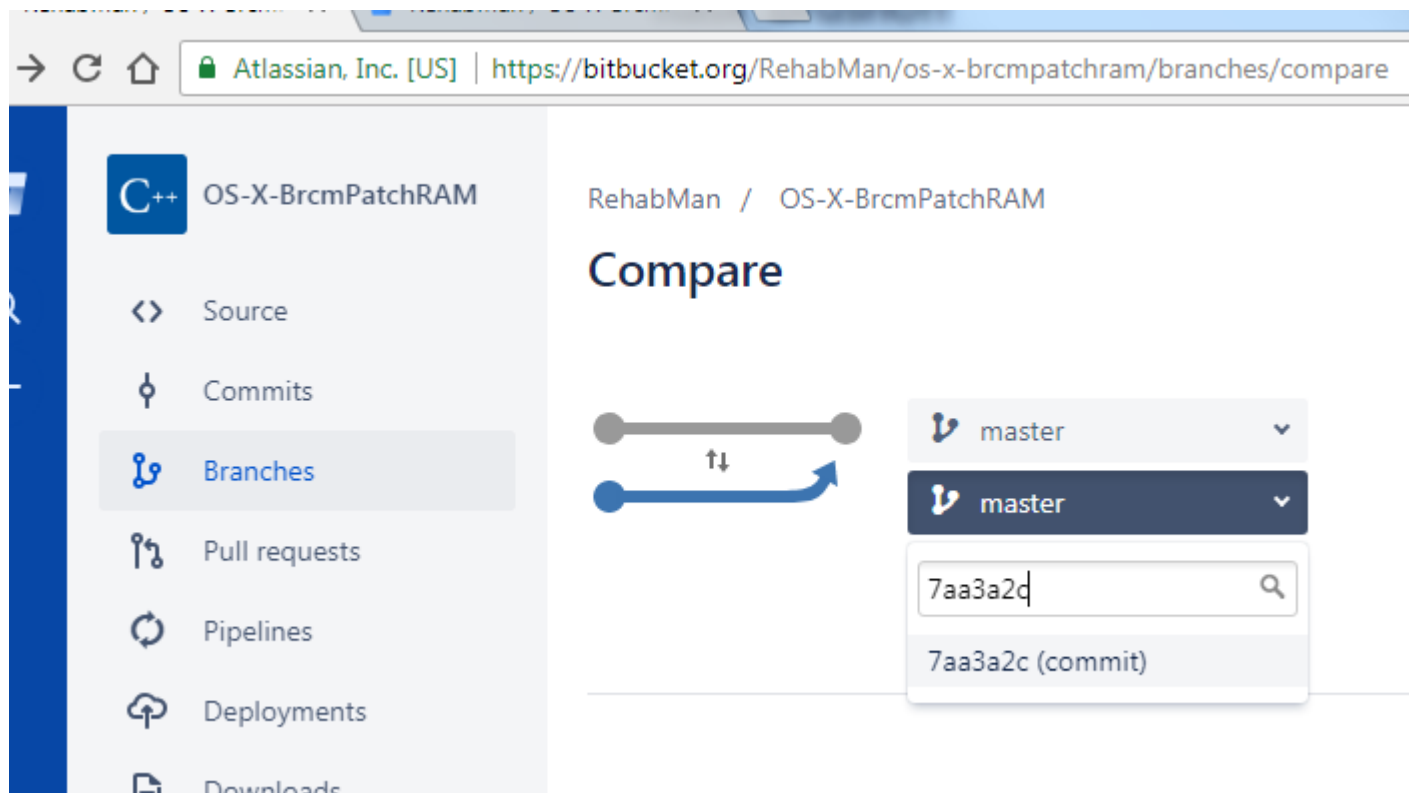
236 2 5

- 1 This gives me a page but does not do a diff between TAGS, which is what I was looking for – [tristanbailey](#) Nov 25 '16 at 11:03
  - 3 For posterity, it works, but `tag1` must start with "v" and be newer, `tag2` is older. For example, [bitbucket.org/codsen/array-includes-with-glob/branches/compare/...](#) — other way around won't work and without "v" it won't work — both cases will lead to 404. – [revelt](#) Jun 7 '18 at 15:12
- this worked for me.. – [Siddharth](#) Feb 25 at 15:12

The search fields in the branch/tag dropdowns on the Compare page on bitbucket.org now supports pasted-in commit hashes.

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So now you can just go to <https://bitbucket.org/<owner>/<repo>/branches/compare/> and paste the hashes into the dropdowns instead of URL hacking!



edited Jun 5 '18 at 12:31



Bob Stein

8,219 4 54 77

answered Jan 19 '18 at 16:37



Alastair Wilkes

195 1 2

This worked for me but I needed to edit the url to end in #diff instead of #commits, as per earlier answer, otherwise it showed no changes. – [MikeA](#) Oct 5 '18 at 12:18

@brian.keng can you mark this as correct answer please? – [ConquerorsHaki](#) Apr 8 at 10:26

I have Bitbucket Server, version:v4.4.1

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The answer with me was this.

`http://<path-to-my-server>/projects/<project-name>/repos/<repo-name>/commits/<old>?to=<new>`

I was looking for this answer because in my project we use git submodules, and in pull requests I can only see the old commit sha vs the new commit sha of each submodule that changed. There is no link to click or anything (that I know of) to jump to this diff view. This url allows me to view what changed in submodules too.

Btw, if someone knows of a better way of comparing two commits in submodules during a pull request, please let me know.

answered Nov 3 '16 at 18:46



[santiago arizti](#)

1,969 18 27

11 All this does for me, on Bitbucket Server v4.9.0, is show the first commit. It does not compare the revisions. – [Jeff](#) Nov 16 '16 at 17:43 ✎

@Jeff did you try switching <old> to <new> I might have mixed them up, if so, then I will correct my answer – [santiago arizti](#) Nov 16 '16 at 18:14 ✎

1 Yes, same issue. In fact, as of November 2016 (this month), Atlassian is saying that this feature isn't supported yet in Bitbucket Server: [jira.atlassian.com/plugins/servlet/mobile#issue/BSERV-2550](https://jira.atlassian.com/plugins/servlet/mobile#issue/BSERV-2550). Are you sure it is doing what you think it is on your system? – [Jeff](#) Nov 16 '16 at 18:18

I found this to work for a sudo for tags, by taking the commit hash for each tag – [tristanbailey](#) Nov 25 '16 at 11:07 ✎

The Bitbucket compare view format is following:

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`https://bitbucket.org/<owner>/<repo>/branches/compare/<new>%0D<old>`

Given an example `ged/ruby-pg` (RubyGem, a ruby library):

**To compare two releases (from v0.18.1 to v0.18.2)**

<https://bitbucket.org/ged/ruby-pg/branches/compare/v0.18.2%0Dv0.18.1>

**To compare two revisions (from f97dd6c to 22a3612)**

<https://bitbucket.org/ged/ruby-pg/branches/compare/22a361201fd1d387d59a066b179124694a446f38%0Df97dd6cb4f34da6a62c4339887249115c7c25b9c>

answered Jul 15 '15 at 7:08

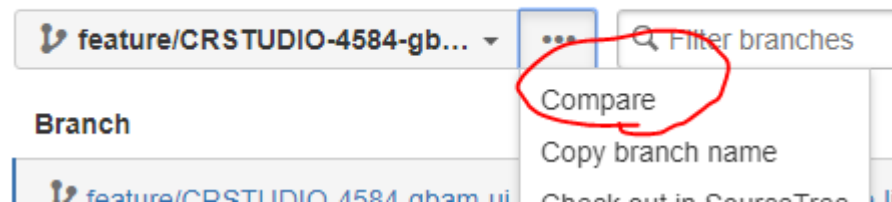
**Juanito Fatas**

4,806 5 33 50



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## Branches



GO to your bitbucket repository > Branches

Click on the menu icon and on compare

answered Apr 11 at 12:03

**Harsh Phoujdar**

127 1 15



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What worked for me was [https://bitbucket.org/-theusername-/-projectnamealllowercase-/branches/compare/-Leftalphanumeric\\_commitcode-.-Rightalphanumeric\\_commit-#commits](https://bitbucket.org/-theusername-/-projectnamealllowercase-/branches/compare/-Leftalphanumeric_commitcode-.-Rightalphanumeric_commit-#commits)

Replace the -username- with your username

Thanks to @Aguardientico

answered Dec 31 '14 at 10:44

**Siddharth**



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Create a light tag to the commit(s) you want to compare. `git -a [tagname] [commit_sha]`

Then in Bitbucket, in the compare menu (the one to do pull requests) simply compare with tags.

answered Feb 17 '17 at 14:31

[Cyrille Cormier](#)

29 6



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You can also do this inside of a pull request, say after someone makes a push to a branch to fix review findings. To my knowledge there's no UI for this yet, but you can enter the url like this:

`https://<bitbucket-server>/projects/<PROJECT>/repos/<REPO>/pull-requests/<PR-NUM>/<commit-hash>?since=<commit-hash-older>`

answered 2 days ago

[Isaac Baker](#)

144 1 9



-5



Via terminal, run git on your project path:

```
git diff <new commit> <old commit>
```

Ex: `git diff 26cf60f be5f978`

answered Feb 25 '17 at 1:01

[Raul B Santos](#)

21 3

2 This is how to compare things with git, on the command line; the question was how to do it in Bitbucket, on the website :) – [Mark VY](#) Oct 26 '17 at 19:32



bitbucket does not have these features.. hence cmd line is the only way.. – [Siddharth](#) Feb 25 at 15:08

This was the answer I found most useful. Agreed the question states bitbucket and this answer does provide a solution that works nicely with bitbucket

was well as other git solutions. — [ptsw](#) May 3 at 14:59

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