

# QuakeCoRE SW Team Code Review

QuakeCoRE Software Team has introduced code review policy as an effort for quality assurance and encourage increased interactions amongst team members.

## Step-by-step guide

### 1. **Developer** : **Create a branch -> Edit -> Add/Commit/Push to the branch**

In the following, let's assume the developer "seb56" is making a small change to "git\_sim\_pkg" repository.

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git checkout -b fix_hardcoded_python
Switched to a new branch 'fix_hardcoded_python'
```

<https://www.atlassian.com/git/tutorials/using-branches>

Suppose the developer edited the file "setup\_remote.sh. The developer does "git add" followed by "git commit".

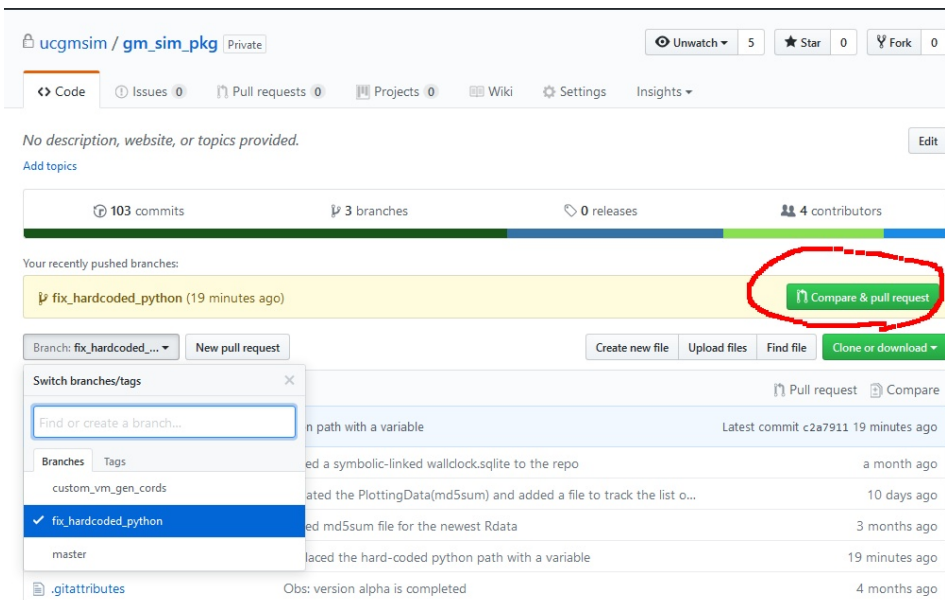
```
seb56@hypocentre /home/seb56/gm_sim_pkg/wrapper :git add setup_remote.sh
seb56@hypocentre /home/seb56/gm_sim_pkg/wrapper :git commit -m "Replaced the hard-coded python path with
a variable"
[fix_hardcoded_python c2a7911] Replaced the hard-coded python path with a variable
1 file changed, 2 insertions(+), 1 deletion(-)
```

When the developer feels the code is ready, he/she does "git push" to the new branch.

```
seb56@hypocentre /home/seb56/gm_sim_pkg/wrapper :git push origin fix_hardcoded_python
Counting objects: 4, done.
Delta compression using up to 32 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 410 bytes | 0 bytes/s, done.
Total 4 (delta 3), reused 0 (delta 0)
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To github.com:ucgmsim/gm_sim_pkg.git
 * [new branch]      fix_hardcoded_python -> fix_hardcoded_python
```

### 2. **Developer** : **Make a pull request from GitHub. to a reviewer.**

Go to Github, and notice the new branch that you created. Click **Compare & pull request**.



The screenshot shows the GitHub repository page for `ucgmsim/gm_sim_pkg`. The repository is private and has 103 commits, 3 branches, 0 releases, and 4 contributors. A red circle highlights the **Compare & pull request** button next to the `fix_hardcoded_python` branch. Below the button, a dropdown menu shows the **Switch branches/tags** dialog with `fix_hardcoded_python` selected. The main content area displays a list of commits, with the latest commit `c2a7911` highlighted, showing the message `Replaced the hard-coded python path with a variable`.

Before clicking **Create pull request**, scroll down and have a good look at your code change. If you're happy, make a pull request.

## Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: master ... compare: fix\_hardcoded\_python ✓ Able to merge. These branches can be automatically merged.

## Replaced the hard-coded python path with a variable

Write Preview AA B i “ < > ↺ ⋮ ≡ ≡ ↶ @ 📖

As we will be migrating from Fitzroy to a new machine, hard-coded paths specific to Fitzroy should be replaced with a variable, preferably retrieved from external files or environment. This code change is just a poor example of half-done solution.

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard.

Styling with Markdown is supported

[Create pull request](#)

**Reviewers**

diagrama

**Assignees**

None—assign yourself

**Labels**

None yet

**Projects**

None yet

**Milestone**

None milestone

1 commit

1 file changed

0 commit comments

1 contributor

Commits on Aug 10, 2017

sungrumae

Replaced the hard-coded python path with a variable

Showing 1 changed file with 2 additions and 1 deletion.

Unfold

Split

View

Diff

```
1  }
2  #! /usr/bin/env python
3  #
4  # This script is used to set up the remote user's environment.
5  # It sets up the remote user's environment by copying the local
6  # environment to the remote user's environment.
7  #
8  # The script is run on the remote user's machine.
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99 #
100 # The script is run on the remote user's machine.
```

When the request has been successfully made, the developer will be presented a new page from **Pull requests** tab.

ucgmsim / gm\_sim\_pkgPrivate

Unwatch

5

Star

0

Fork

0

<> Code

Issues0

Pull requests1

Projects0

Wiki

Settings

Insights

Replaced the hard-coded python path with a variable #3

Open


sungeunbae wants to merge 1 commit into master from fix\_hardcoded\_python

Conversation0

Commits1

Files changed1

+2-1



sungeunbae commented just now

As we will be migrating from Fitzroy to a new machine, hard-coded paths specific to Fitzroy should be replaced with a variable, preferably retrieved from external files or environment. This code change is just a poor example of half-done solution.

Replaced the hard-coded python path with a variable

c2a7911

sungeunbae requested a review from dlagrava just now

Add more commits by pushing to the fix\_hardcoded\_python branch on ucgmsim/gm\_sim\_pkg.

Review requested

Review has been requested on this pull request. It is not required to merge. [Learn more.](#)

This branch has no conflicts with the base branch

Merging can be performed automatically.

Show all reviewers

Reviewers

dlagrava

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

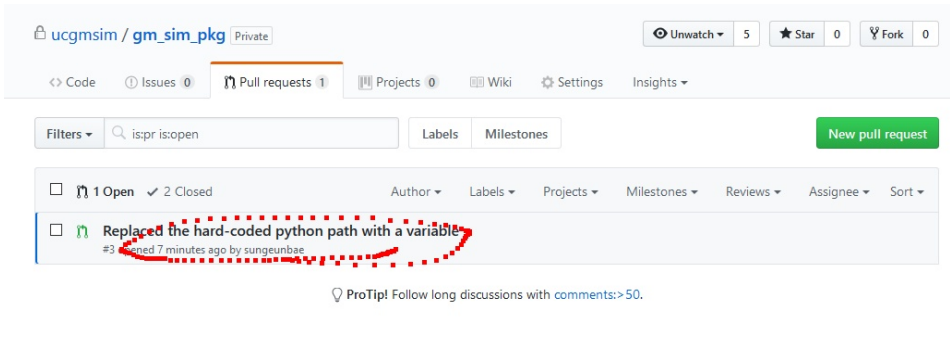
No milestone

Notifications

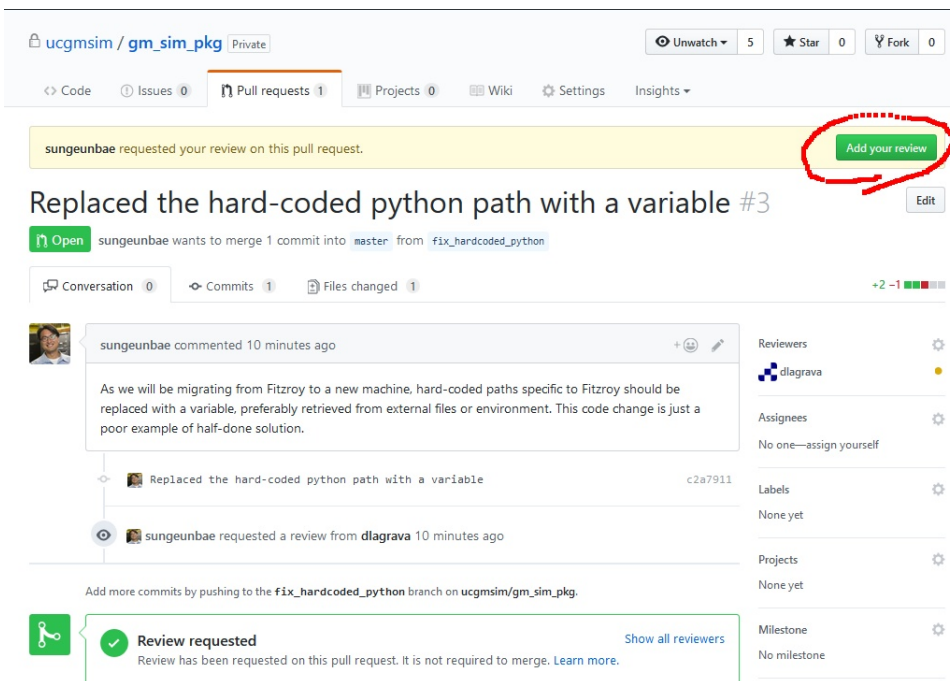
Unsubscribe

3. **Reviewer** : Reviewer has 3 options : He/she can make comments, approve the change or make a change request.

The reviewer receives an email requesting the review. "diagrava" visits the pull request page and clicks the link to start the review.



Click **Add your review**



The reviewer can click **Review changes** to comment/approve or request changes.

## Edit

Conversation 0 Commits 1 Files changed 1

Unified	Split
---------	-------

Review changes ▾

[Submit your review](#)

## Review summary

Leave a comment

Comment

Submit general feedback without explicit approval.

☐ Approve

Submit feedback and approve merging these changes.

☐ Request changes

Submit feedback that must be addressed before merging.

[Submit review](#)

```
58 -ssh $remote_user@fitzroy.nesi.org.nz " /opt/niwa/Python/AIX/2.7.5/bin/python /nesi/projects/nesi00213/workflow/devel/install.py $remote_user@fitzroy.nesi.org.nz $remote_python /nesi/projects/nesi00213/workflow/devel/install.py $remote_cfg"
```

Write Preview

Why do you leave the hard-coded "fitzroy.nesi.org.nz". Don't you think it has to be a variable?

Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Styling with Markdown is supported

Cancel Add single comment Start a review



```
58 +ssh $remote_user@fitzroy.nesi.org.nz "/opt/niwa/Python/AIX/2.7.5/bin/python /nesi/projects/nesi00213/workflow/devel/install
59 +ssh $remote_user@fitzroy.nesi.org.nz "$remote_python /nesi/projects/nesi00213/workflow/devel/install.py $remote_cfg"
```



diagrava Pending

Why do you leave the hard-coded "fitzroy.nesi.org.nz". Don't you think it has to be a variable?



Reply...

[Start a new conversation](#)

[Finish your review](#)

The reviewer can finalize the review by clicking **Submit review** with 3 options - **Comment**, **Approve** and **Request changes**.

Unified
Split
Review changes

Submit your review

Review summary

I think you should create a variable for "fitzroy.nesi.org.nz".

☐ Comment  
Submit general feedback without explicit approval.

☐ Approve  
Submit feedback and approve merging these changes.

☒ Request changes  
Submit feedback that must be addressed before merging.

Submit review

ts/nesi00213/workflow/dev1/install.py \$remote\_cfg"

#### 4. Developer. Revision of the code.

If the reviewer selects **Request change**, the developer will receive an email with a link that takes to this page.

The developer may disagree, but let's assume he/she agreed to make a necessary code change.

dlagrava reviewed 11 minutes ago
View changes

```

wrapper/setup_remote.sh
... @@ -55,4 +56,4 @@ cmd="scp $cfg $remote_user@fitzroy.nesi.org.nz:$remote_cfg"
55 56 echo $cmd
56 57 $cmd
57 58
58 -ssh $remote_user@fitzroy.nesi.org.nz "/opt/niwa/Python/AIX/2.7.5/bin/python /
59 +ssh $remote_user@fitzroy.nesi.org.nz "$remote_python /nesi/projects/nesi00213

```

dlagrava 11 minutes ago
Why do you leave the hard-coded "fitzroy.nesi.org.nz". Don't you think it has to be a variable?

Reply...

dlagrava requested changes 28 seconds ago
View changes

I think you should create a variable for "fitzroy.nesi.org.nz".

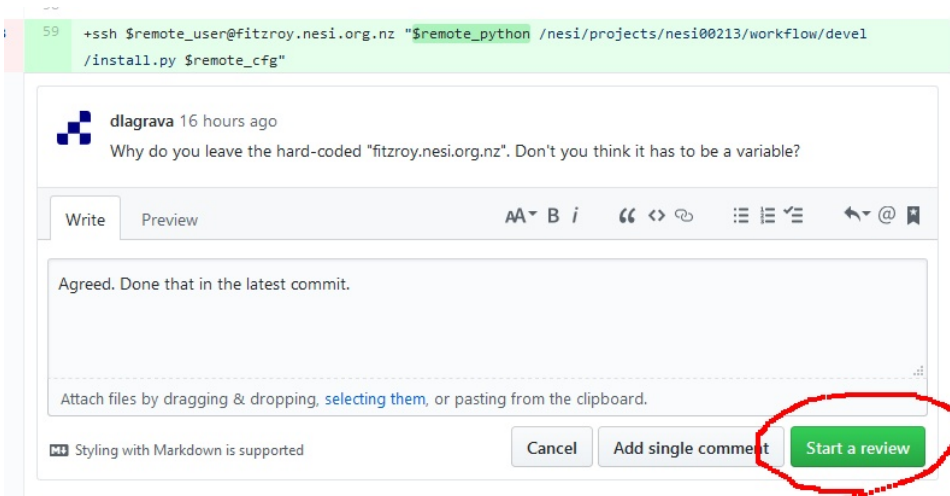
Add more commits by pushing to the **fix\_hardcoded\_python** branch on **ucgmsim/gm\_sim\_pkg**.

Changes requested
Hide all reviewers
1 review requesting changes [Learn more](#).

dlagrava requested changes
See review Dismiss review

The developer edit the code, and does git add/commit/push.

It is also recommended to respond to the reviewer comment.



```
59 +ssh $remote_user@fitzroy.nesi.org.nz "$remote_python /nesi/projects/nesi00213/workflow/devel
/install.py $remote_cfg"
```

dlaqrava 16 hours ago  
Why do you leave the hard-coded "fitzroy.nesi.org.nz". Don't you think it has to be a variable?

Write Preview

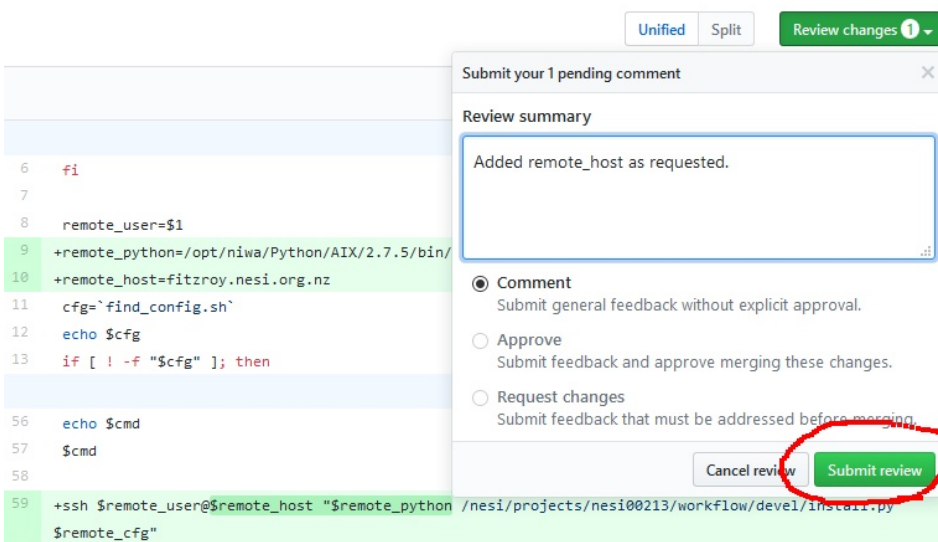
Agreed. Done that in the latest commit.

Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Styling with Markdown is supported

Cancel Add single comment **Start a review**

**Start a review** and **Submit review** to finalize your comment and notify the reviewer.



Unified Split Review changes 1

Submit your 1 pending comment

Review summary

Added remote\_host as requested.

☒ Comment  
Submit general feedback without explicit approval.

☐ Approve  
Submit feedback and approve merging these changes.

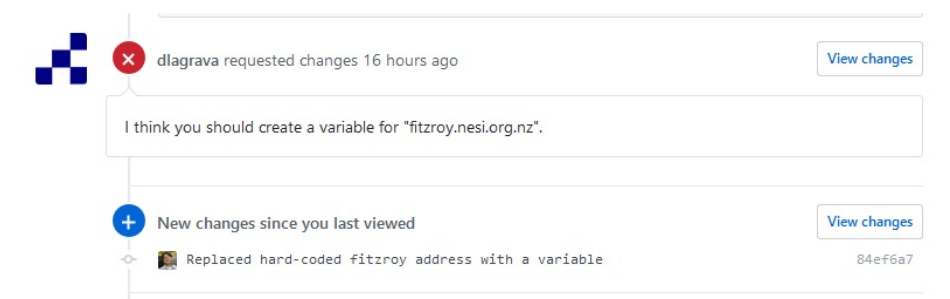
☐ Request changes  
Submit feedback that must be addressed before merging.

Cancel review **Submit review**

```
6 fi
7
8 remote_user=$1
9 +remote_python=/opt/niwa/Python/AIX/2.7.5/bin/
10 +remote_host=fitzroy.nesi.org.nz
11 cfg=$(find_config.sh)
12 echo $cfg
13 if [ ! -f "$cfg" ]; then
14
56 echo $cmd
57 $cmd
58
59 +ssh $remote_user@$remote_host "$remote_python /nesi/projects/nesi00213/workflow/devel/install.py
$remote_cfg"
```

##### 5. **Reviewer:** Second review.

Reviewer receives an email with a link that takes to the page showing **New changes since you last viewed**.



dlaqrava requested changes 16 hours ago [View changes](#)

I think you should create a variable for "fitzroy.nesi.org.nz".

+ New changes since you last viewed [View changes](#)

Replaced hard-coded fitzroy address with a variable 84ef6a7

Click + or **View changes** to inspect. If everything looks ok, Click **Review changes** and **Approve**.



## Replaced the hard-coded python path with a variable #3

Edit

Open sungeunbae wants to merge 2 commits into master from fix\_hardcoded\_python

Conversation 4 Commits 2 Files changed 1

Changes from 1 commit Jump to... +2 -2 Viewing a subset of changes. View all Unified Split Review changes

```
4 wrapper/setup_remote.sh
@@ -7,7 +7,7 @@ fi
7
8 remote_user=$1
9 remote_python=/opt/niwa/Python/AIX/2.7.5/bin/python
10
11 +remote_host=fitzroy.nesi.org.nz
12 cfg="find_config.sh"
13 echo $cfg
14 if [ ! -f "$cfg" ]; then
15
56 echo $cmd
57 $cmd
58
59 -ssh $remote_user@fitzroy.nesi.org.nz "$remote_python /nesi/projects/nesi00213/workflow/devel/install.py $remote_cfg"
60 +ssh $remote_user@$remote_host "$remote_python /nesi/projects/nesi00213/workflow/devel/install.py $remote_cfg"
```

Submit your review

Review summary

Leave a comment

☐ Comment  
Submit general feedback without explicit approval.

☒ **Approve**  
Submit feedback and approve merging these changes.

☐ Request changes  
Submit feedback that must be addressed before merging.

Submit review

### 6. Admin (Reviewer): Merge the pull request

The repository admin (most of the time, the reviewer will function as the admin) will **Merge the pull request**.

sungeunbae reviewed 23 minutes ago [View changes](#)

Added remote\_host as requested.

wrapper/setup\_remote.sh [Show outdated](#)

dlgrava approved these changes just now [View changes](#)

Add more commits by pushing to the fix\_hardcoded\_python branch on ucgmsim/gm\_sim\_pkg.

**Changes approved** [Show all reviewers](#)  
1 approved review [Learn more](#).

**This branch has no conflicts with the base branch**  
Merging can be performed automatically.

**Merge pull request** You can also open this in [GitHub Desktop](#) or view [command line instructions](#).

It is also recommended for the admin to **Delete branch** to keep the repository tidy.

dlgrava approved these changes 6 minutes ago [View changes](#)

dlgrava merged commit ad64bb7 into master just now [Revert](#)

**Pull request successfully merged and closed**  
You're all set—the fix\_hardcoded\_python branch can be safely deleted.

**Delete branch**

## 7. Developer: Delete the local branch

Even if the admin deletes the branch, the developer's own copy of code still has the branch and worse still, the developer may be on the branch.

Check which branch is being used.

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git branch
* fix_hardcoded_python
  master
```

Switch to master branch.

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
```

### I. Delete first

Delete the branch

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git branch -D fix_hardcoded_python
Deleted branch fix_hardcoded_python (was 84ef6a7).
```

At this point, your local "master" will be behind the origin "master" which has merged the pull request. Get the latest copy of origin master.

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git pull
remote: Counting objects: 1, done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), done.
From github.com:ucgmsim/gm_sim_pkg
   157b335..ad64bb7  master    -> origin/master
Updating 157b335..ad64bb7
Fast-forward
 wrapper/setup_remote.sh | 5 +++--
 1 file changed, 3 insertions(+), 2 deletions(-)
```

### II. Pull first

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git pull
remote: Counting objects: 1, done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), done.
From github.com:ucgmsim/gm_sim_pkg
   157b335..ad64bb7  master    -> origin/master
Updating 157b335..ad64bb7
Fast-forward
 wrapper/setup_remote.sh | 5 +++--
 1 file changed, 3 insertions(+), 2 deletions(-)
```

Delete the branch. Note the "-d" switch instead of "-D".

```
seb56@hypocentre /home/seb56/gm_sim_pkg :git branch -d fix_hardcoded_python
Deleted branch fix_hardcoded_python (was 84ef6a7)
```



## Related articles

- [QuakeCoRE SW Team Code Review](#)

<https://help.github.com/articles/about-pull-requests/>

<https://help.github.com/articles/merging-a-pull-request/>