



Git and Gerrit

Presented by the Diversity & Inclusion WG

Agenda

- Pre-Requirements Review
- Create, Triage, and Assign Documentation Bug
- Create, Commit, and Verify Patch
- Reference Materials

1.

Pre-Requirements Review

Git Installed?

■ Instructions for installing Git on MacOS, Linux and Windows:

- <https://docs.openstack.org/contributors/common/git.html>

■ Configuring Git

- git config --global user.name "Firstname Lastname"
- git config --global user.email "your_email@youremail.com"

Accounts Check-List

Joined OpenStack Community
as Member

Sign up at:
<https://www.openstack.org/join>
Pick Account type either
Community or Foundation
Member
Signed ICLA

Accounts Check-List

Joined OpenStack Community
as Member

Created Ubuntu One Account

Go to

<https://storyboard.openstack.org>

or

<https://launchpad.net/openstack>

Click login

Select I am a new Ubuntu One
user

Accounts Check-List

Joined OpenStack Community
as Member

Created Ubuntu One Account

Created Gerrit Account

Go to:

<https://review.opendev.org>

Click sign in

Sign New Contributor
Agreement

Accounts Check-List

Joined OpenStack Community
as Member

Created Ubuntu One Account

Created Gerrit Account

Uploaded Public SSH Key

Create an SSH key if you do
not have one or want a new
one

ssh-keygen -C "emailaddress"

cat ~/.ssh/id_rsa.pub

Got to:

<https://review.opendev.org/#/settings/ssh-keys>

Click **Add Key** and add the
contents of your public key

2. OpenStack Contribution Process

LaunchPad System Overview

- LaunchPad Example: <https://bugs.launchpad.net/openstack-manuals/+bug/1663485>
- Login – Ubuntu One Account
- When to Open or Assign a Bug
- How Bugs Are Created
 - Manually
- Bug Triaging

StoryBoard System Overview

- StoryBoard Example:

<https://storyboard.openstack.org/#!/story/2004144>

- Login – Ubuntu One Account

- When to Open or Assign a Bug

- How Bugs Are Created

- Manually

- Bug Triaging

StoryBoard

← → 🔍 Secure | <https://storyboard.openstack.org/#/board/45>

StoryBoard [Create New...](#) [Jump to...](#)

Launchpad to StoryBoard Migration

A board to track various projects migrating to StoryBoard! Migration script excitement, list of projects on the VIP waiting list to migrate.... it will all happen here!

Due Dates

Category	Project	Migrated By
Untested Projects	Chef OpenStack	
Untested Projects	Dragonflow	
Untested Projects	EC2-API	
Untested Projects	Cinder	
Untested Projects	Horizon	
Untested Projects	Kuryr	
Untested Projects	Karbor	
Untested Projects	Masakari	
Untested Projects	Neutron	
Untested Projects	Murano	
Untested Projects	Mistral	
Untested Projects	Nova	
Untested Projects	OpenStack-Ansible	
Untested Projects	Powerstackers	
Tested & Failed Projects	Charms	Zara
Tested & Succeeded Projects	i18n	Zara
Tested & Succeeded Projects	Congress	Kendall Nelson
Tested & Succeeded Projects	Heat	Kendall Nelson
Tested & Succeeded Projects	Solum	Kendall Nelson
Tested & Succeeded Projects	Watcher	Zara
Tested & Succeeded Projects	Storlets	Kendall Nelson
Tested & Succeeded Projects	Tricircle	Zara
Tested & Succeeded Projects	Trove	Kendall Nelson
Tested, Contacted PTL	Designate	Kendall Nelson
Tested, Contacted PTL	Blazar	Kendall Nelson
Tested, Contacted PTL	Glance	Kendall Nelson
Tested, Contacted PTL	Barbican	Kendall Nelson
Tested, Contacted PTL	LOCI	Kendall Nelson
Tested, Contacted PTL	Kolla	Zara
Tested, Contacted PTL	Magnum	Kendall Nelson
Tested, Contacted PTL	OpenStack-Helm	Kendall Nelson
Migration Script Changes	migration script- some users' openids aren't added to db properly	
Other Migr	Update	remove
Other Migr	Launch	Kendall
Other Migr	Add St	project
Other Migr	Kendall	
Other Migr	Update	remove
Other Migr	Launch	Kendall

<https://github.com/spotz/ghc>

Filing a Bug

- URL - <https://launchpad.net/gitandgerrittraining>
- Click “Report a Bug” 
- Enter Bug Summary (Brief Description) 
- Provide Further Information on the Bug 
- Extra Options
 - Status – New 
 - Importance – Undecided 
 - Assign Bug to Yourself

Configure Git and Git Review

```
$ git config --global user.name "Firstname Lastname"  
$ git config --global user.email "your_email@youremail.com"  
$ git config --global gitreview.username yourgerritusername  
$ git config --list
```

Tip



"We don't know where
your gerrit is" Error? git
remote add gerrit
ssh://<username>@
review.opendev.org:29418/
opendev/sandbox.git

Cloning and Branching

```
$ git clone https://opendev.org/opendev/sandbox  
$ cd sandbox/  
Setup git review  
Mac/Ubuntu - $ git review -s  
Windows - $ git review  
$ git remote update  
$ git checkout master  
$ git pull --ff-only origin master  
$ git checkout -b bug/bugID
```

Tip

Commit Message Best Practices -
<https://wiki.openstack.org/wiki/GitCommitMessages>

Create, Commit and Verify a Patch

```
$ cat > mytestfile << EOF  
    Add text unique to your file  
$ git status  
$ git add mytestfile  
$ git status  
$ git commit -a  
$ git commit --amend  
$ git show  
$ git review
```

Tip



Commit Message Best Practices -
<https://wiki.openstack.org/wiki/GitCommitMessages>

Gerrit and Zuul Workflow

- Gerrit - <https://review.opendev.org/#c/<ID>>
 - Example patch: <https://review.opendev.org/#c/438328/>

- Gate Checking - <http://status.openstack.org/zuul/>

Gerrit Review

Screenshot of a Gerrit Review interface showing a merged change.

Change 438328 - Merged

[Install] Document Nova cells and placement API

With the Ocata release, Nova requires a basic cell_v2 setup and the Placement API service.

Change-Id: I3ad1a53ea072f79cbc356248b0b800ddaabd5038
Closes-Bug: #1663485
Closes-Bug: #1669163

Owner: Brian Moss
Reviewers: Alexandra Settle, Amy Marrich (spotz), Jenkins, Jens Rosenboom, Lana Brindley, Nicolas Bock, caoyuan, Alexander Chardin, Chris Dent, D G Lee, Darren Chan, Jay Pipes, John Garbutt, Matt Riedemann, Olena Logvinova, Oliver Walsh, Petr Kovar, Roger Luethi, Sean McGinnis, chen.xing, melanie.witt
Project: openstack/openstack-manuals
Branch: master
Topic: bug/1663485
Updated: 2 days ago

Code-Review +2 Alexandra Settle, Lana Brindley
+1 Amy Marrich (spotz), Jens Rosenboom, Nicolas Bock, caoyuan
+2 Jenkins
Workflow +1 Alexandra Settle

Jenkins check
gate-openstack-manuals-tox-checkniceness-ubuntu-xenial SUCCESS in 3m 07s
gate-openstack-manuals-tox-doc-publish-checkbuild SUCCESS in 7m 23s
Jenkins gate
gate-openstack-manuals-tox-checkniceness-ubuntu-xenial SUCCESS in 3m 41s
gate-openstack-manuals-tox-doc-publish-checkbuild SUCCESS in 7m 25s

Files | Open All | Diff against: Base

File Path
Commit Message
doc/common/get-started-compute.rst
doc/install-guide/source/environment-security.rst
doc/install-guide/source/nova-compute-install.rst
doc/install-guide/source/nova-controller-install.rst
doc/install-guide/source/nova-verify.rst

Comments Size

4	1
2	1
61	1
198	1
57	1
+287,-35	1

History | Expand All

Brian Moss Uploaded patch set 1. Feb 27 12:03 AM
Brian Moss Patch Set 1: Workflow-1 Feb 27 12:03 AM
Alexandra Settle Patch Set 1: (2 comments) Feb 27 6:33 AM
Minor stuff :) But you're still WIP.
doc/install-guide/source/nova-controller-install.rst
Line 498: "nova_cell0"
Line 523: "wah this is hard to read"
Amy Marrich (spotz) Patch Set 1: (3 comments) Feb 27 4:36 PM
added a few notes from an install I have in progress
doc/install-guide/source/nova-compute-install.rst
Line 470: also mention list_cells to verify
nova-manage cell_v2 list_cells

<https://github.com/spotz/ghc>

Zuul Status

[openstack](#)[®]
CLOUD SOFTWARE

Status [Zuul](#) Rechecks Reviews Bugday OpenStack-Health

Zuul Status

Zuul is a pipeline oriented project gating and automation system. Each of the sections below is a separate pipeline configured to automate some portion of the testing or operation of the OpenStack project. For more information, please see the Zuul reference manual.

Queue lengths: 0 events, 0 results. Filters: Expand by default:

[check](#) (194) [gate](#) (13) [post](#) (107)

Newly uploaded patchsets enter this pipeline to receive an initial +/-1 Verified vote from Jenkins.

Changes that have been approved by core developers are enqueued in order in this pipeline, and if they pass tests in Jenkins, will be merged.

This pipeline runs jobs that operate after each change is merged.

Change queue: [integrated](#)

- openstack/nova 304714,2 0 min 2 hr 2 min
- openstack/nova 282442,22 0 min 1 hr 59 min
- openstack/nova 282442,22 0 min 1 hr 58 min
- openstack/nova 281945,30 0 min 1 hr 58 min
- Change queue: [openstack/manila](#)
- openstack/manila 305189,2 4 min 1 hr 54 min
- Change queue: [openstack/neutron](#)
- openstack/nova 305079,3 14 min 1 hr 50 min

Change queue: [integrated](#)

- openstack/nova 305204,2 16 min 1 hr 44 min
- openstack/nova 301213,3 16 min 1 hr 18 min
- openstack/horizon 304805,2 39 min 1 hr 18 min
- openstack/neutron 305605,1 39 min 57 min
- openstack/neutron 274023,10 39 min 49 min
- openstack/neutron 303563,2 39 min 44 min
- Change queue: [openstack/fuel-web](#)
- openstack/fuel-web 304438,4 3 min 13 min

Change queue: [openstack/kolla](#)

- openstack/kolla 17916f2 unknown 3 hr 48 min

Change queue: [openstack/python-tripleclient](#)

- openstack/python-tripleclient 092adc unknown 3 hr 35 min

Change queue: [openstack/tripleo-heat-templates](#)

- openstack/tripleo-heat-templates 2b15978 unknown 3 hr 34 min

Change queue: [openstack/openstack-ansible](#)

- openstack/openstack-ansible dbe6808 unknown 3 hr 34 min

Change queue: [openstack-infra/project-config](#)

- openstack-infra/project-config 27025c6 unknown 3 hr 34 min

Change queue: [openstack/aodh](#)

- openstack/aodh 3b030c4 unknown 3 hr 32 min

<https://github.com/spotz/ghc>

3.

Additional Exercises

Edit a Patch

- Edit File
- \$ git add filename
- \$ git commit -a --amend
- \$ git review

Create a Patch Dependency and Rebase

- `git pull origin master`
 - (updates your local version of the master branch)
- `$ git checkout <your_branch>`
- `$ git rebase -i master`
- `$ git rebase --continue`

Where to Find Help

- Ask OpenStack - <https://ask.openstack.org>
- IRC
 - <https://wiki.openstack.org/wiki/IRC>
 - <https://docs.openstack.org/contributors/common/irc.html>
- Mail Lists -
https://wiki.openstack.org/wiki/Mailing_Lists

Reference Materials

- Contributors Guide - <https://docs.openstack.org/contributors/code-and-documentation/index.html>
- First Time Contributors QuickStart Guide -
<https://docs.openstack.org/doc-contrib-guide/quickstart/first-timers.html>
- Documentation Bugs - <http://docs.openstack.org/contributor-guide/doc-bugs.html>
- Learn The Gerrit Workflow in the Sandbox -
<http://docs.openstack.org/infra/manual/sandbox.html>

Reference Materials

- Commit Messages -
<https://wiki.openstack.org/wiki/GitCommitMessages>
- Testing - <https://wiki.openstack.org/wiki/Testing>
- Setup and Learn Git -
<https://docs.openstack.org/contributors/common/git.html>