



GIT AND GERRIT LUNCH AND LEARN, ORGANIZED BY THE WOMEN OF OPENSTACK

GITHUB REPO – [HTTPS://GITHUB.COM/SPOTZ/BOSTONSUMMITGITANDGERRIT](https://github.com/spotz/bostonsummitgitandgerrit)

LUNCH AND LEARN OBJECTIVES

- Learn the OpenStack Contribution Process
- Gain Working Knowledge of Git and Gerrit

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PRESENTERS

Amy Marrich



Xing Yang



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ROOM SUPPORT VOLUNTEERS

Aimee Ukasick



Chris Apsey



Julianna Rodriguez



Akanksha Angrawal



Jay Bryant



Sean McGinnis



Anne McCormick



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WOMEN OF OPENSTACK

- Objectives
 - Increase Diversity of the Community
 - Develop Leadership Skills
- Community Stats (Women)
 - 9% Community Members
 - 11% (24% ATCs) Barcelona Summit Attendees
- Boston WOO Sessions –
<https://goo.gl/2bd0au>



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Image courtesy of the OpenStack Foundation

AGENDA

- Why Contribute to The OpenStack Code Base
- Pre-Requirements Review
- OpenStack Contribution Process
- Create, Triage, and Assign Documentation Bug
- Create, Commit, and Verify Patch
- Reference Materials

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WHY CONTRIBUTE TO THE OPENSTACK CODE BASE

- Help Drive the Future of an OSS Project and Community
- Vote During TC and PTL Elections



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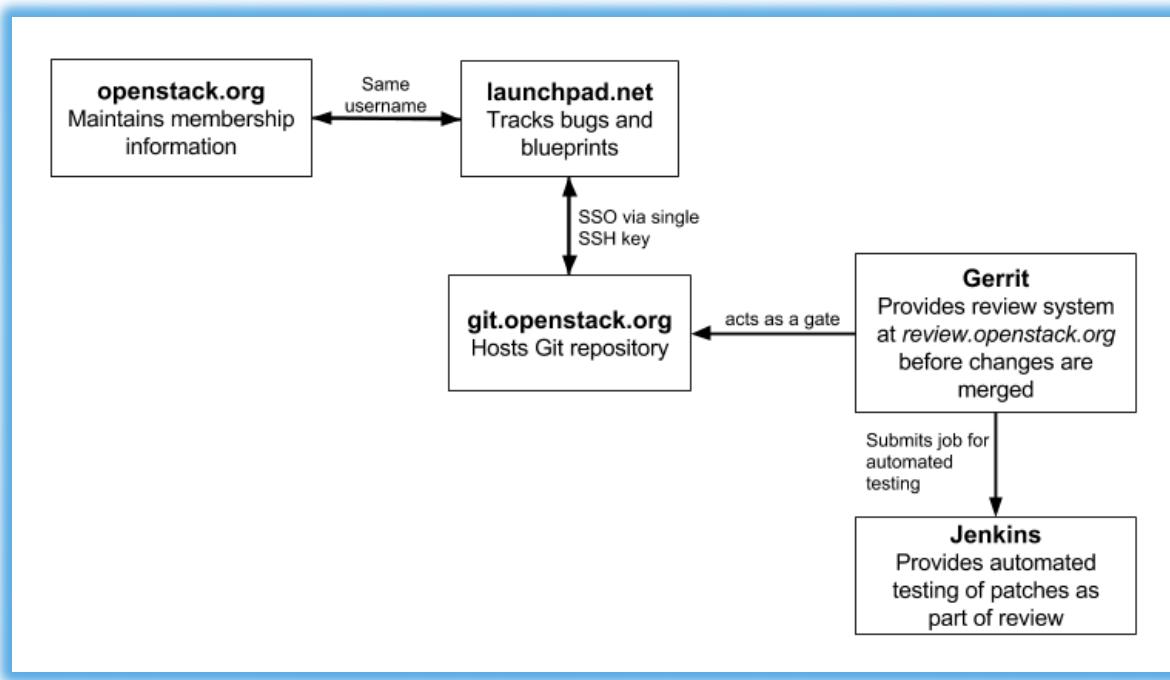
PRE-REQUIREMENTS REVIEW

PLEASE ADVISE A ROOM SUPPORT MEMBER IF YOU'VE NOT COMPLETED PRE-REQUIREMENTS

- ✓ Joined OpenStack Community as Foundation Member
- ✓ Signed ICLA
- ✓ Created Launchpad Account
- ✓ Created Gerrit Account and Uploaded Public SSH Key

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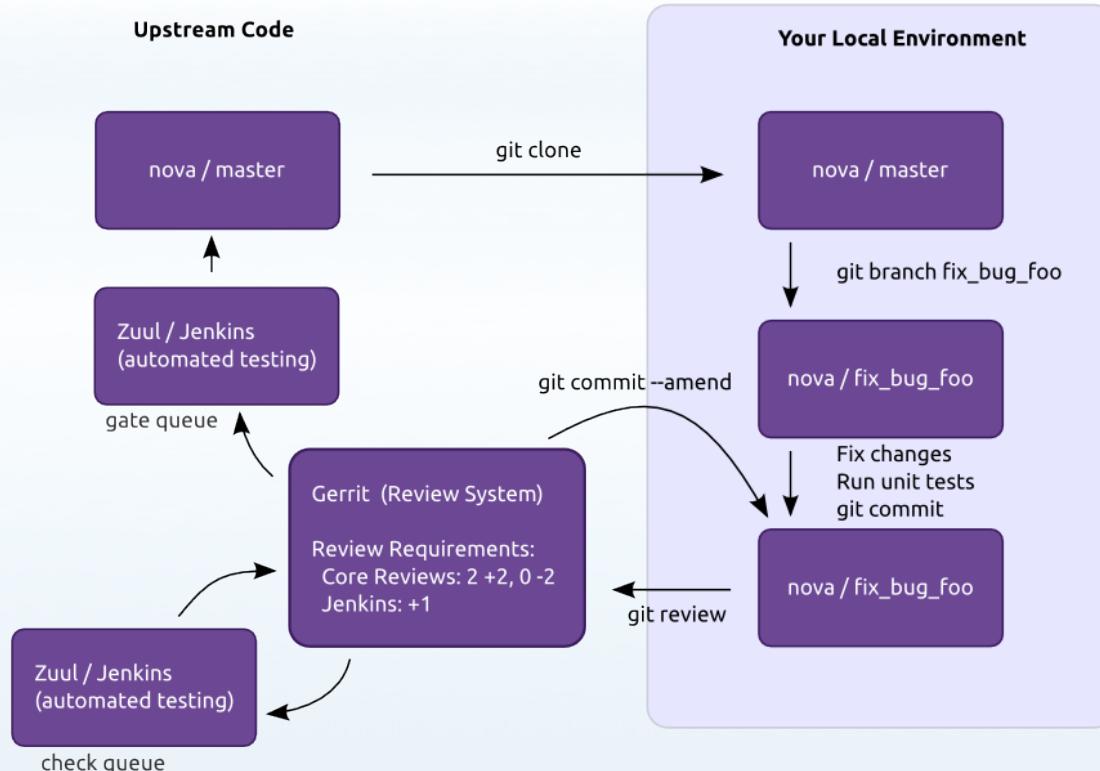
OPENSTACK CONTRIBUTION PROCESS



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Images courtesy of the OpenStack Foundation

OPENSTACK CONTRIBUTION PROCESS



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OPENSTACK BUG SYSTEM OVERVIEW

- URL - <https://bugs.launchpad.net/openstack/>
 - Example bug: <https://bugs.launchpad.net/openstack-manuals/+bug/1663485>
- Login - Launchpad Account
- When to Open or Assign a Bug
- How Bugs Are Created
 - Manually
 - DocImpact Flag in Commit Message
- Bug Triaging

Tips



- Do not start work on a documentation bug until it is confirmed
- Do not use Launchpad Answers, use Ask OpenStack

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CREATE AND ASSIGN DOCUMENTATION BUG

- URL - <https://launchpad.net/woolunchandlearnboston>
- 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



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Images courtesy of the OpenStack Foundation

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>@revie
w.openstack.org:29418/op
enstack-dev/sandbox.git

CLONE OPENSTACK SANDBOX REPO AND CREATE BRANCH

- \$ git clone <https://git.openstack.org/openstack-dev/sandbox.git>
- \$ 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 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

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Tip



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

GERRIT AND JENKINS WORKFLOW REVIEW

- Gerrit - <https://review.openstack.org/#/c/<ID>>
 - Example patch: <https://review.openstack.org/#/c/438328/>
- Gate Checking - <http://status.openstack.org/zuul/>

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GERRIT REVIEW



Screenshot of the OpenStack Gerrit review interface for a merged change.

Change 438328 - Merged

[Install] Document Nova cells and placement API

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

Change-Id: f3ad1a53ea072f79cbc356248b0b800daab5038
Closes-Bug: #1663485
Closes-Bug: #1669163

Owner: Brian Moss
Reviewers: Alexandra Settle, Amy Marrich (spotz), Jenkins, Jens Rosenboom, Lana Brindley, Nicolas Bock, caoyuan, Alexander Chadin, 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
Verified: +2 Jenkins
Workflow: +1 Alexandra Settle

Jenkins check: Mar 21 8:36 PM
gate-openstack-manuals-tox-checkniceness-ubuntu-xenial SUCCESS in 3m 07s
gate-openstack-manuals-tox-doc-publish-checkbuild SUCCESS in 7m 23s
Jenkins gate: Mar 22 7:17 AM
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:

Author	Comments
Brian Moss	4
Alexandra Settle	2
	61
	198
	57
	+287, -35

History: Brian Moss (2 comments), Alexandra Settle (2 comments), Amy Marrich (spotz) (3 comments)



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ZUUL STATUS

The screenshot shows the Zuul Status page for the OpenStack project. The top navigation bar includes links for Status, Zuul (which is active), Rechecks, Reviews, Bugday, and OpenStack-Health. Below the navigation is a section titled "Zuul Status" with a brief description of what Zuul does. A search bar and filter options are present. The main content area displays three horizontal timelines: "check" (194 items), "gate" (13 items), and "post" (107 items). Each timeline lists individual change queue items with details like author, commit ID, and duration.

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 59 min
- openstack/nova 281945,30 0 min 1 hr 58 min
- openstack/manila 305189,2 4 min 1 hr 54 min
- openstack/nova 305079,3 14 min 1 hr 50 min
- openstack/neutron 305605,1
- openstack/neutron 274023,10
- openstack/neutron 303563,2
- openstack/fuel-web 304438,4

Change queue: **openstack/kolla**

- openstack/kolla 17916f2 unknown 3 hr 48 min
- openstack/python-tripleoclient 092adcc unknown 3 hr 35 min
- openstack/tripleo-heat-templates 2b15978 unknown 3 hr 34 min
- openstack/openstack-ansible dbe6808 unknown 3 hr 34 min
- openstack-infra/project-config 27025c6 unknown 3 hr 34 min
- openstack/aodh 3b030c4 unknown 3 hr 32 min

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ADDITIONAL EXERCISE – EDIT PATCH

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

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ADDITIONAL EXERCISE – REBASE

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

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ABANDON COMMIT

```
ssh -l YOUR_GERRIT_USERNAME>\\
  -p 29418 \\
  review.openstack.org 'gerrit review' \\
  --project openstack-dev/sandbox.git \\
  --abandon THE_CHANGE_ID,2
```

WHERE TO FIND HELP

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

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REFERENCE MATERIALS

- Contributors Guide - <http://docs.openstack.org/contributor-guide/>
- First Time Contributors QuickStart Guide -
<https://docs.openstack.org/contributor-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>

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REFERENCE MATERIALS

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

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Q&A