



# **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

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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

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- 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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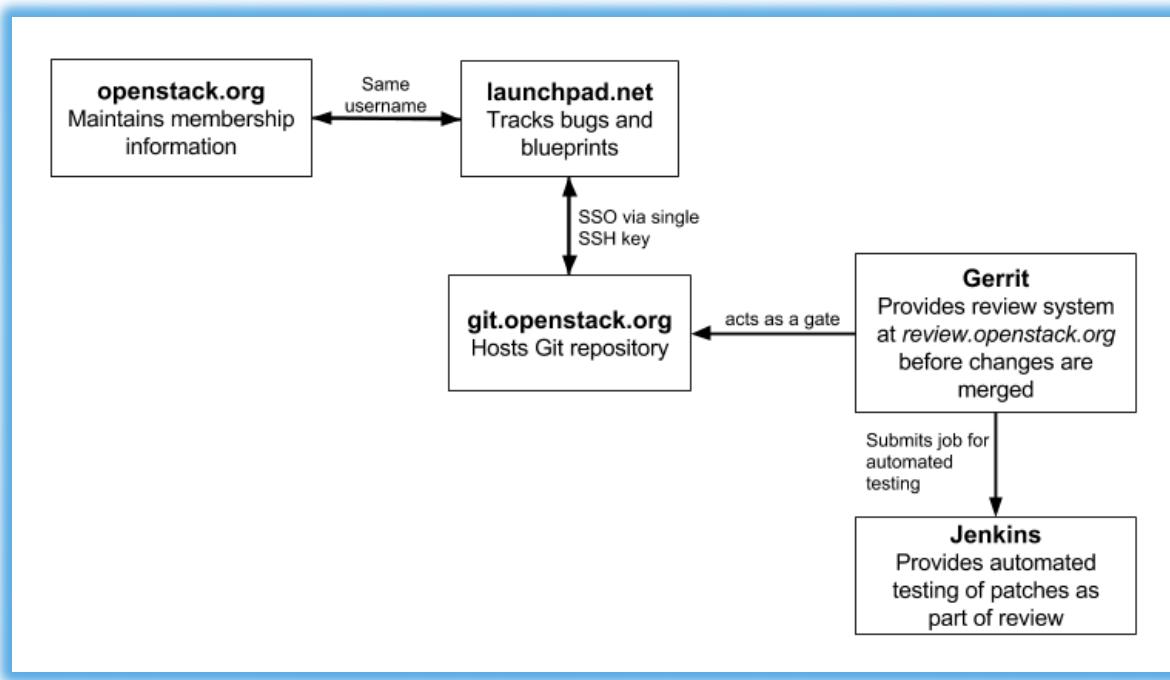
# PRE-REQUIREMENTS REVIEW

*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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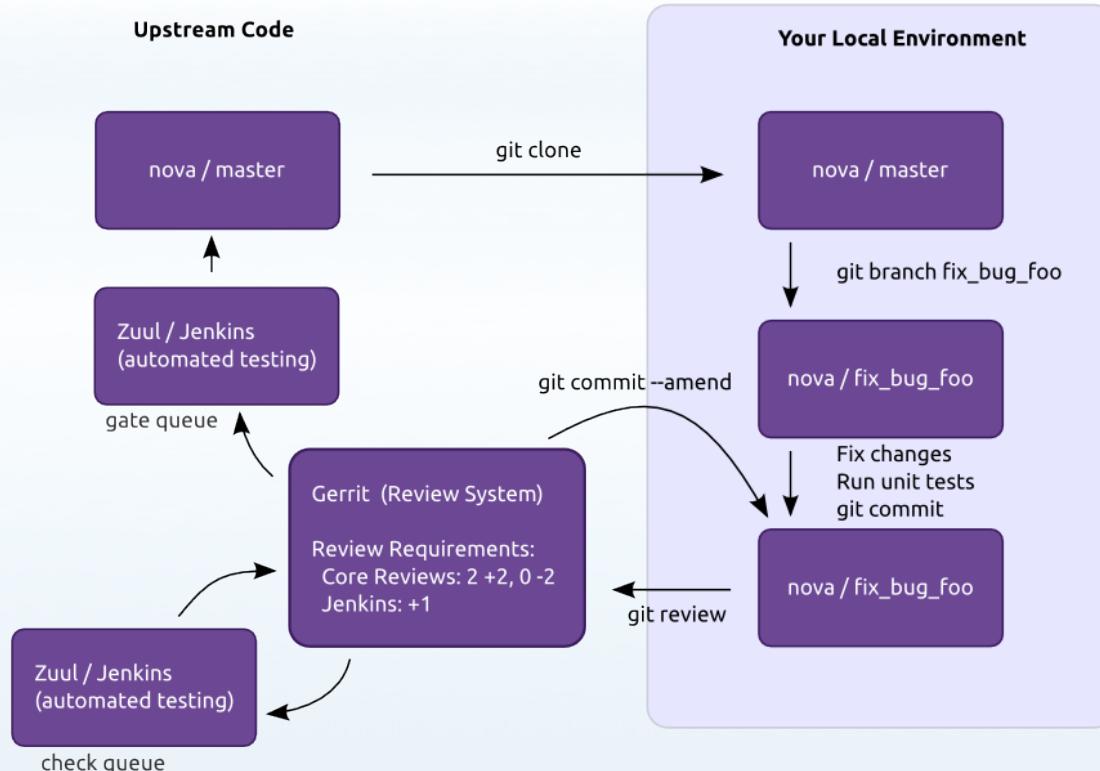
# OPENSTACK CONTRIBUTION PROCESS



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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

Tip



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

# GERRIT AND JENKINS WORKFLOW REVIEW

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- 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 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  
**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:**

Comments	Size
4	green
2	green
61	green
198	red
57	red
+287, -35	green

**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 12:03 AM
- (Minor stuff :) But you're still WIP.  
doc/install-guide/source/nova-controller-install.rst  
Line 496: "nova\_cell0"  
Line 523: woah 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



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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 available. 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)**

- Newly uploaded patchsets enter this pipeline to receive an initial +/-1 Verified vote from Jenkins.
- 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
  - Change queue: openstack/manila
    - openstack/manila 305189,2 4 min 1 hr 54 min
  - Change queue: openstack/neutron
    - openstack/neutron 305605,1 39 min 1 hr 18 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/neutron

**gate (13)**

- 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.
- 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

**post (107)**

- This pipeline runs jobs that operate after each change is merged.
- Change queue: openstack/kolla
  - openstack/kolla 17916f2 unknown 3 hr 48 min
- Change queue: openstack/python-tripleoclient
  - openstack/python-tripleoclient 092adcc 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

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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

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- 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](https://wiki.openstack.org/wiki/Mailing_Lists)

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# REFERENCE MATERIALS

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- 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

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- 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