



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

GITHUB REPO - [HTTPS://GITHUB.COM/SPOTZZ/BARCELONASUMMIT/](https://github.com/spotzz/barcelonasummit/)

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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ROOM SUPPORT VOLUNTEERS

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WOMEN OF OPENSTACK

- Objectives
 - Increase Diversity of the Community
 - Develop Leadership Skills
- Barcelona WOO Sessions –
<http://bit.ly/BarcelonaWOO>



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Image courtesy of the OpenStack Foundation

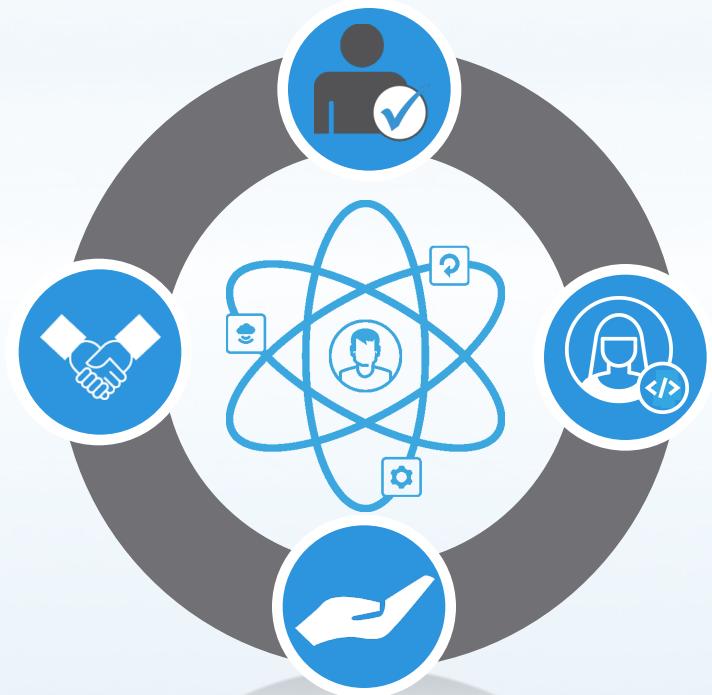
AGENDA

- 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
- Free Pass to OpenStack Summit



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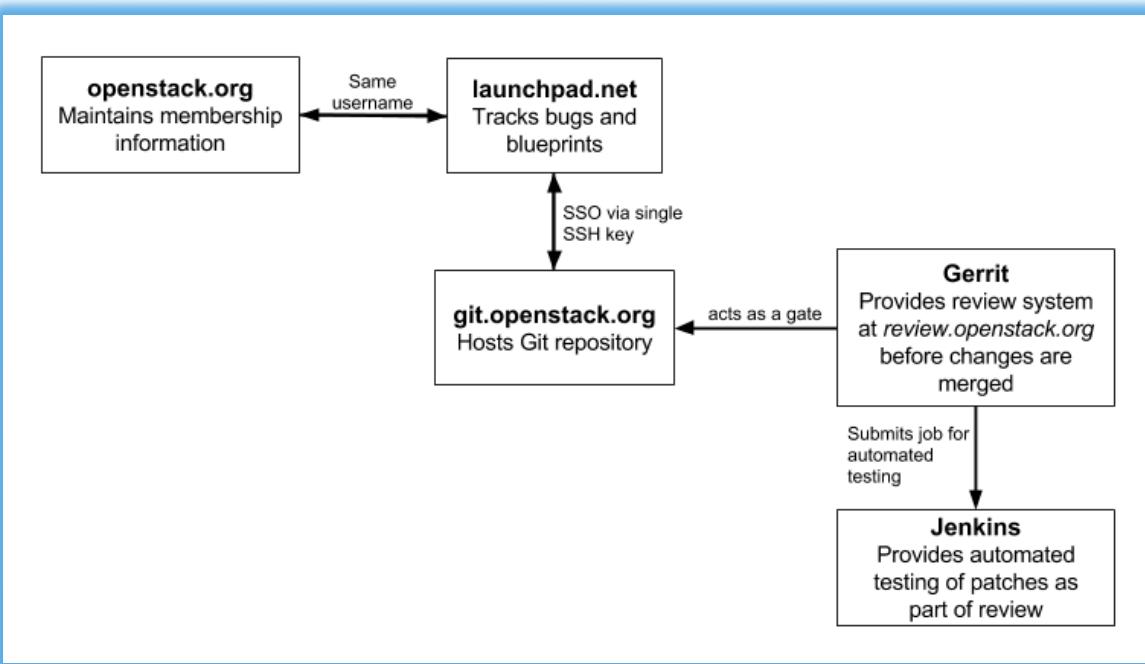
PRE-REQUIREMENTS REVIEW

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

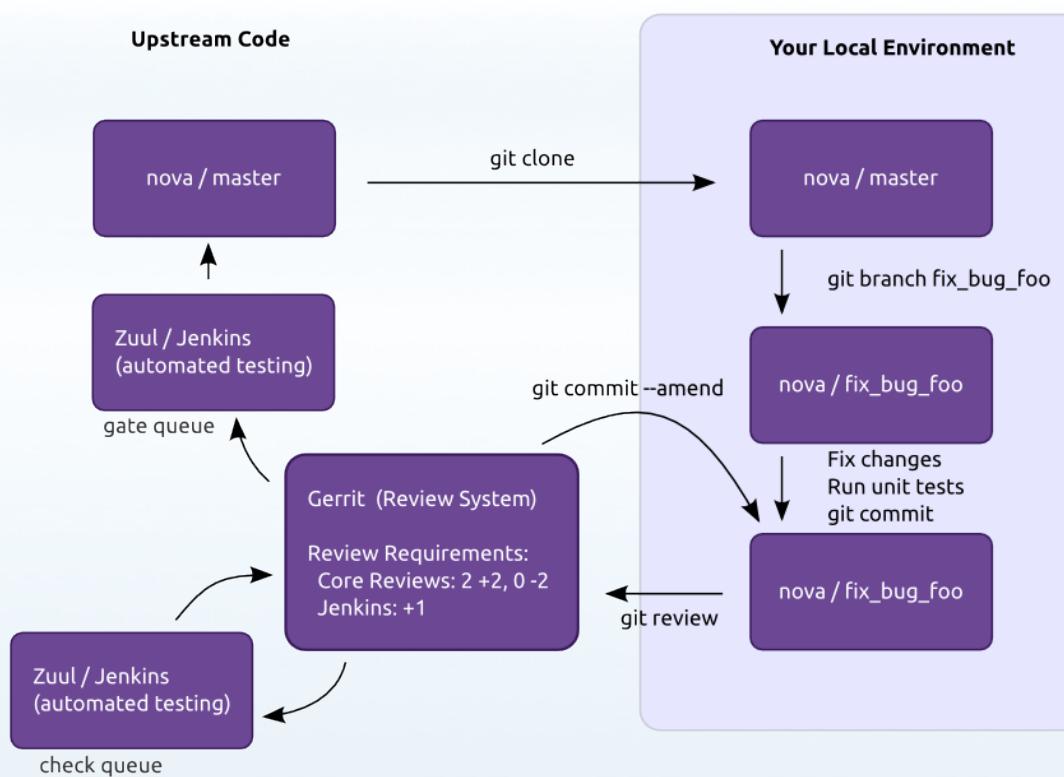
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OPENSTACK CONTRIBUTION PROCESS



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OPENSTACK CONTRIBUTION PROCESS



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OPENSTACK BUG SYSTEM OVERVIEW

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

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Tips



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

CREATE AND ASSIGN DOCUMENTATION BUG

- URL - <https://launchpad.net/woolunchandlearn>
- 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/sandbox.git

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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

GITHUB REPO <https://github.com/spotzz/barcelonasummit/>

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

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GERRIT REVIEW



Screenshot of the OpenStack Gerrit Review interface showing a merged change.

Change 287569 - Merged

[User Guide] Upload Images - Add Link
In the note add a link to cli_manage_images.

Closes-Bug: #1548109
Change-Id: id833890ce6aa7916b36aa1197ce703a1e7fe57b0

Owner: Tamara Johnston
Reviewers: Darren Chan, Jenkins, KATO Tomoyuki, chen.xing, venkatamahesh
Project: openstack/openstack-manuals
Branch: master
Topic: bug/1548109
Updated: 6 weeks ago

Code-Review +2: Darren Chan, KATO Tomoyuki
+1 chen.xing, venkatamahesh
Verified +2: Jenkins
Workflow +1: KATO Tomoyuki

Jenkins check: Mar 2 7:27 PM
gate-openstack-manuals-tox-checkniceness SUCCESS in 2m 30s
gate-openstack-manuals-tox-doc-publish-checkbuild SUCCESS in 7m 30s
Jenkins gate: Mar 3 12:04 AM
gate-openstack-manuals-tox-checkniceness SUCCESS in 2m 51s
gate-openstack-manuals-tox-doc-publish-checkbuild SUCCESS in 6m 45s

Files: Open All, Diff against: Base

File Path: Commit Message, doc/user-guide/source/dashboard_manage_images.rst

Comments Size: 3, +2, -1

History: Expand All

Tamara Johnston: Uploaded patch set 1.
chen.xing: Patch Set 1: Code-Review+1
venkatamahesh: Patch Set 1: Code-Review+1
Darren Chan: Patch Set 1: Code-Review+2
KATO Tomoyuki: Patch Set 1: Code-Review+2 Workflow+1 Thanks!
Gerrit Code Review: Change has been successfully merged into the git repository by Jenkins



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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 is and how it works. It displays three main pipeline stages: check, gate, and post, each with its respective count of events.

check (194) **gate** (13) **post** (107)

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

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
openstack/manila 305189,2	4 min 1 hr 54 min
openstack/nova 305079,3	14 min 1 hr 50 min

Change queue: **openstack/kolla**

openstack/kolla 17916f2	unknown 3 hr 48 min
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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 270256	unknown 3 hr 34 min
--	------------------------

Change queue: **openstack/aodh**

openstack/aodh 3b030c4	unknown 3 hr 32 min
---------------------------	------------------------

Change queue: **openstack/neutron**

openstack/neutron 303563,2	39 min 44 min
openstack/neutron 274023,10	39 min 49 min
openstack/neutron 303560,1	39 min 57 min
openstack/horizon 304805,2	39 min 1 hr 18 min
openstack/nova 305204,2	16 min 1 hr 44 min

Change queue: **openstack/fuel-web**

openstack/fuel-web 304436,4	3 min 13 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 – CREATE 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

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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
```

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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

GITHUB REPO - <HTTPS://GITHUB.COM/SPOTZZ/BARCELONASUMMIT/>

REFERENCE MATERIALS

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