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

GITHUB REPO – HTTPS://GITHUB.COM/SPOTZ/SYDNEYSUMMIT

LUNCH AND LEARN OBJECTIVES

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

GITHUB REPO – HTTPS://GITHUB.COM/SPOTZ/SYDNEYSUMMIT

PRESENTER

Amy Marrich

GITHUB REPO – HTTPS://GITHUB.COM/SPOTZ/SYDNEYSUMMIT

ROOM SUPPORT VOLUNTEERS

Jay Bryant

Sean McGinnis

Elise Eiden

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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

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

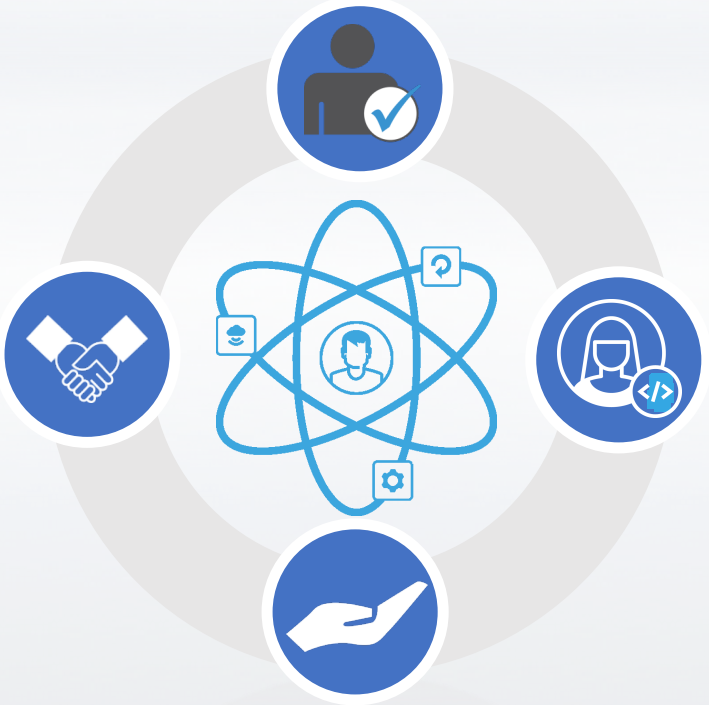
PRE-REQUIREMENTS REVIEW

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

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

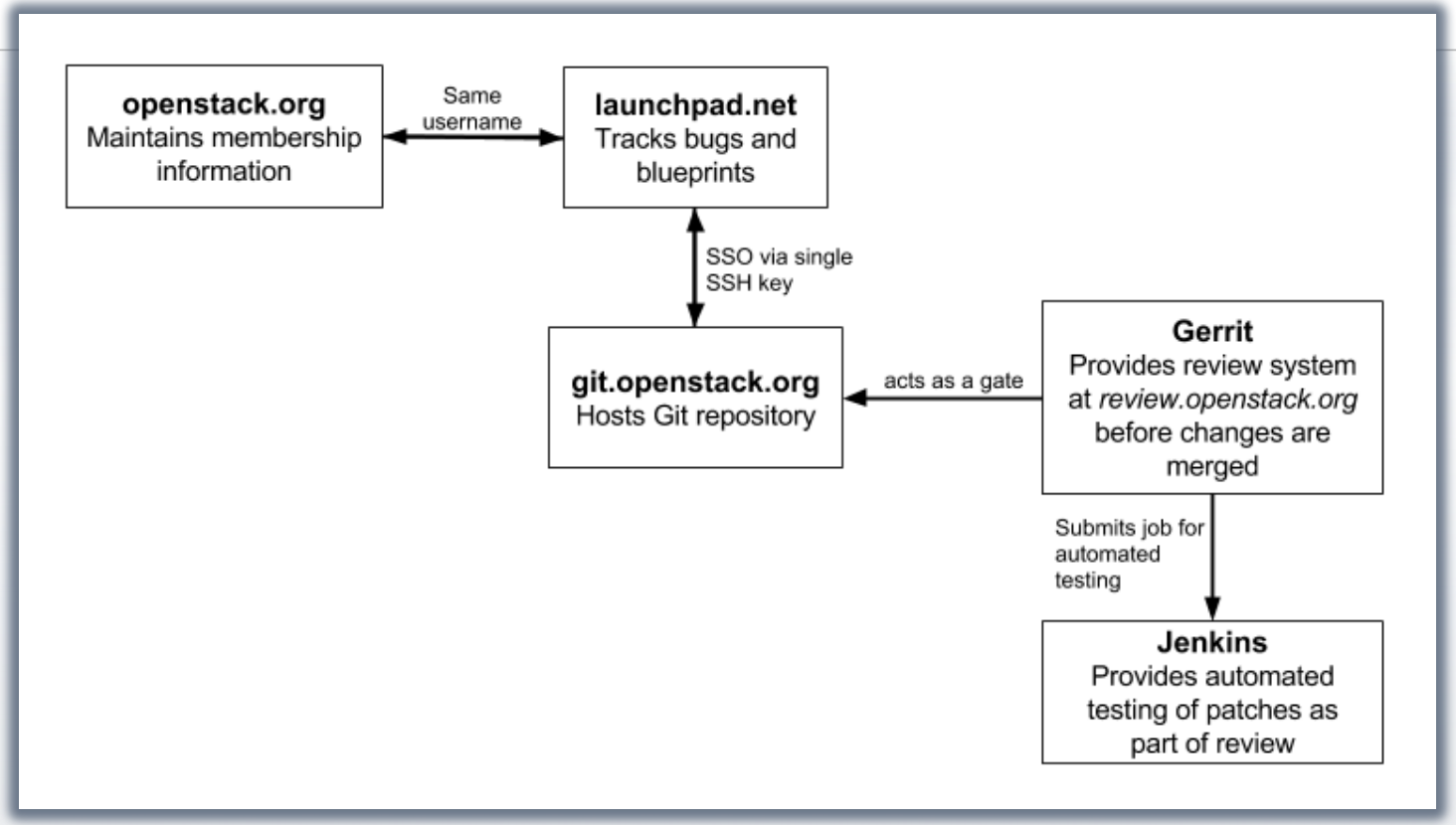
WHY CONTRIBUTE TO THE OPENSTACK CODE BASE

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



GITHUB REPO – HTTPS://GITHUB.COM/SPOTZ/SYDNEYSUMMIT

OPENSTACK CONTRIBUTION PROCESS



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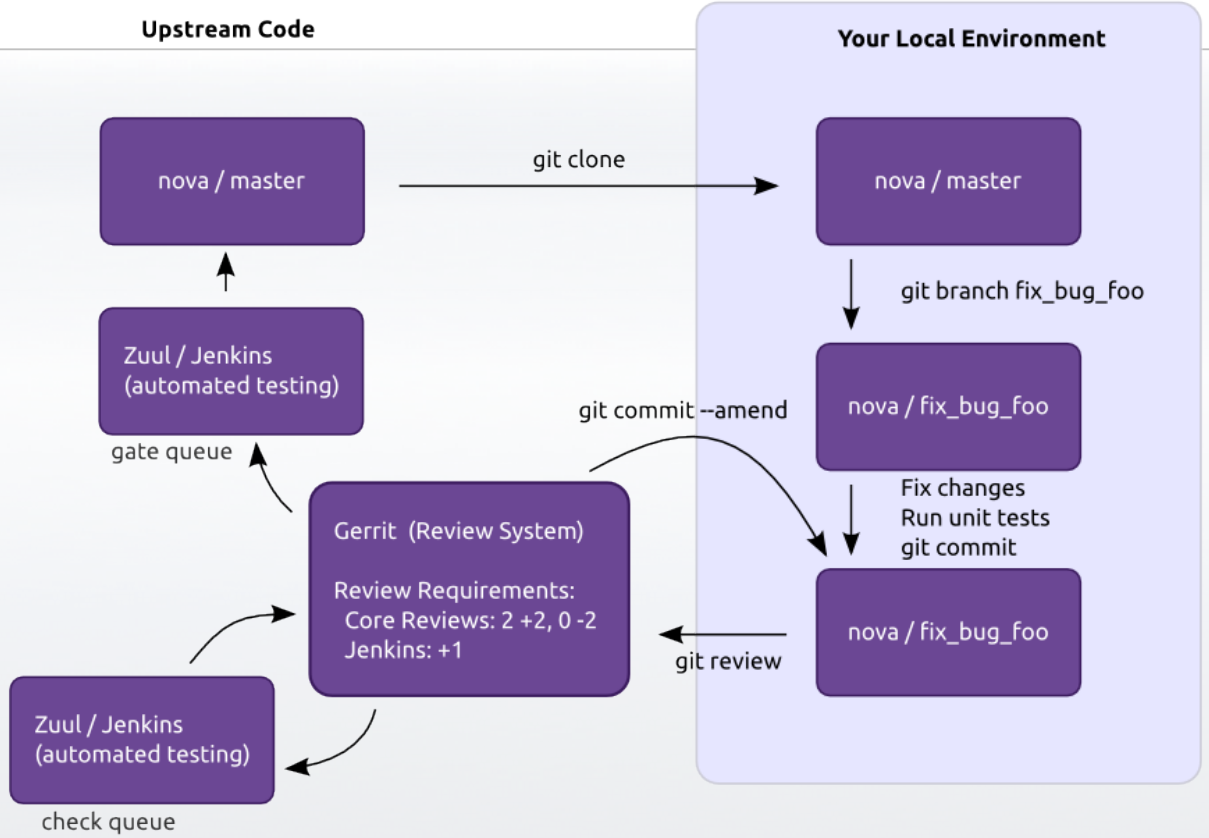
Images courtesy of the OpenStack Foundation

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

CREATE AND ASSIGN DOCUMENTATION BUG

- URL - https://launchpad.net/gitandgerritsydney
- 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

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>@review.openstack.org:29418/openstack-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

GITHUB REPO – HTTPS://GITHUB.COM/SPOTZ/SYDNEYSUMMIT

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

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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/

GERRIT REVIEW

openstack

All My Projects People Documentation

Changes Drafts Draft Comments Watched Changes Starred Changes Groups

Search term Search xing-yang

Change 438328 - **Merged** Reply... Included in ▼ Patch Sets (15/15) ▼ Download ▼

```
[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 Add... 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

Cherry Pick Revert

Author	Brian Moss <kallimachos@gmail.com>	Feb 21, 2017 1:05 AM
Committer	Brian Moss <kallimachos@gmail.com>	Mar 21, 2017 8:26 PM
Commit	d6a9c104454fb5628a05df1a9342f0e27e785195	(gitweb)
Parent(s)	ae04134649856a6fe64c8cfc13aa036885abad8d	(gitweb)
Change-Id	I3ad1a53ea072f79cbc356248b0b800ddaabd5038	

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	Comments Size
Commit Message	
doc/common/get-started-compute.rst	4
doc/install-guide/source/environment-security.rst	2
doc/install-guide/source/nova-compute-install.rst	61
doc/install-guide/source/nova-controller-install.rst	198
doc/install-guide/source/nova-verify.rst	57
	+287, -35

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 Feb 27 6:33 AM

Patch Set 1:

(2 comments)

Minor stuff :) But you're still WIP.

doc/install-guide/source/nova-controller-install.rst

Line 498: ``nova_cell0``

Line 523: woah this is hard to read

Amy Marrich (spotz) Feb 27 4:36 PM

Patch Set 1:

(3 comments)

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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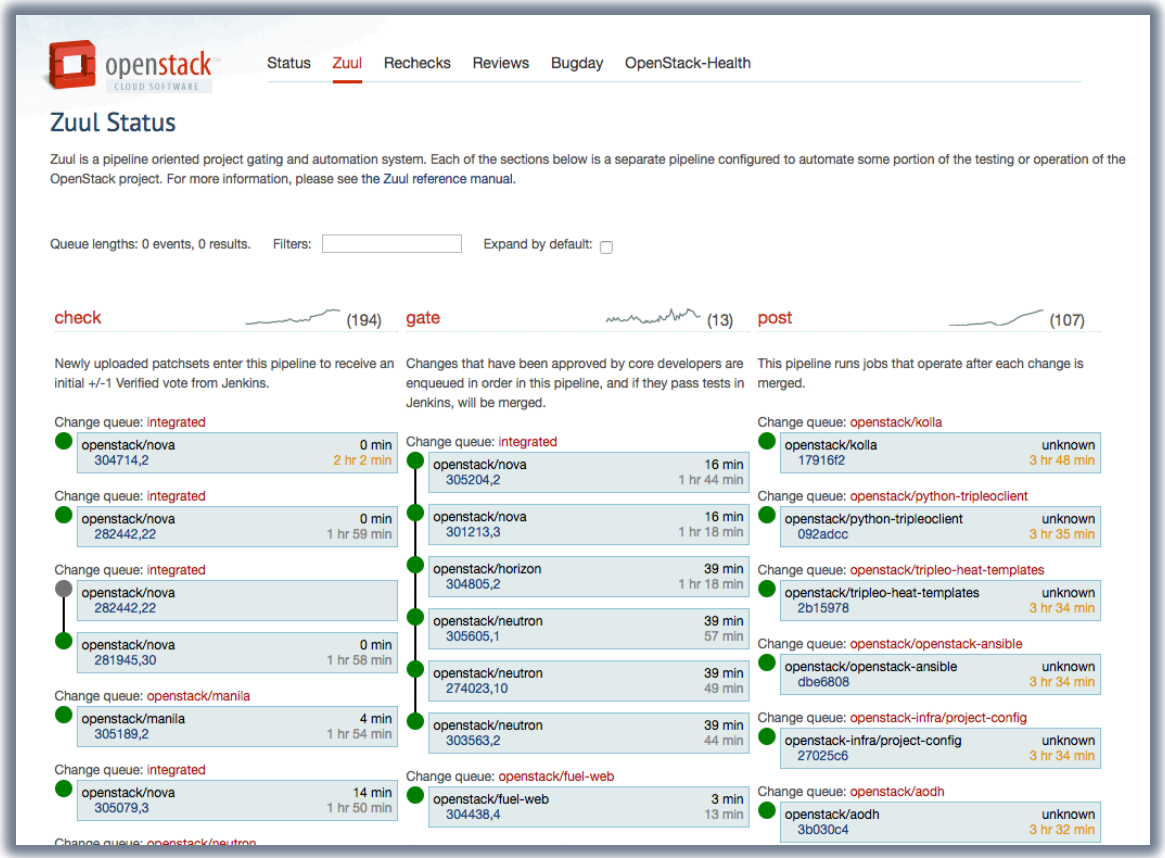
ZUUL STATUS



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ADDITIONAL EXERCISE – EDIT PATCH

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

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

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

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

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

Q&A