

# Git Installed?

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- 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"



# Git and Gerrit

## Lunch and Learn

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Presented by the Women of OpenStack



# Amy Marrich



## Linux Academy

You can find me at:  
[IRC – spotz](#)  
[Twitter - @spotzz\\_](#)

# Room Support

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Jay Bryant



Sean McGinnis



# Agenda

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

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# Pre-Requirements Review

# Git Installed?

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# 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

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- ✓ Joined OpenStack Community as Member
- ✓ Created Ubuntu One Account
- ✓ Created Gerrit Account

Go to  
<https://review.openstack.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
```

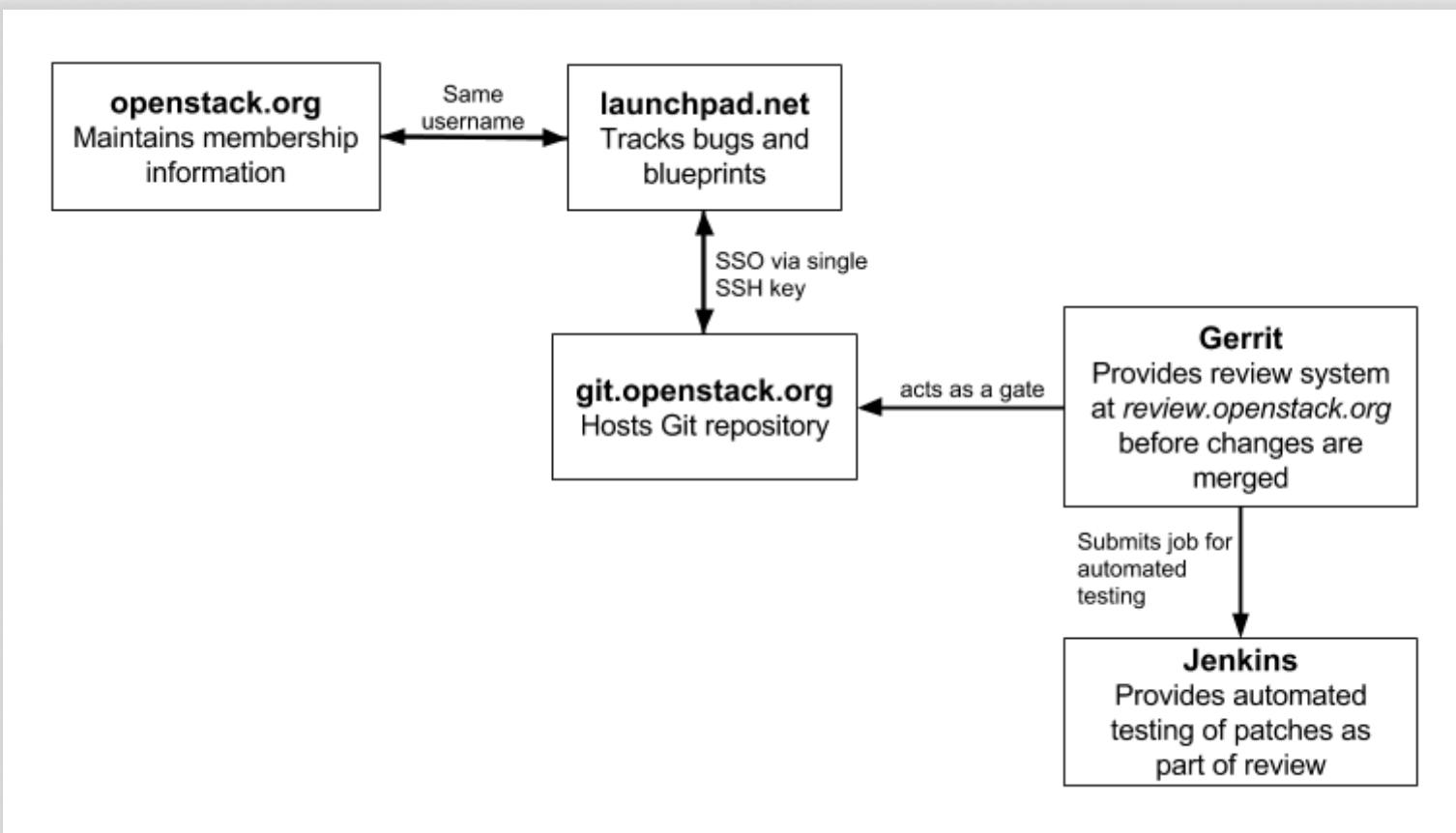
Got to  
<https://review.openstack.org/#/settings/ssh-keys>

Click Add Key and add the contents of your public key

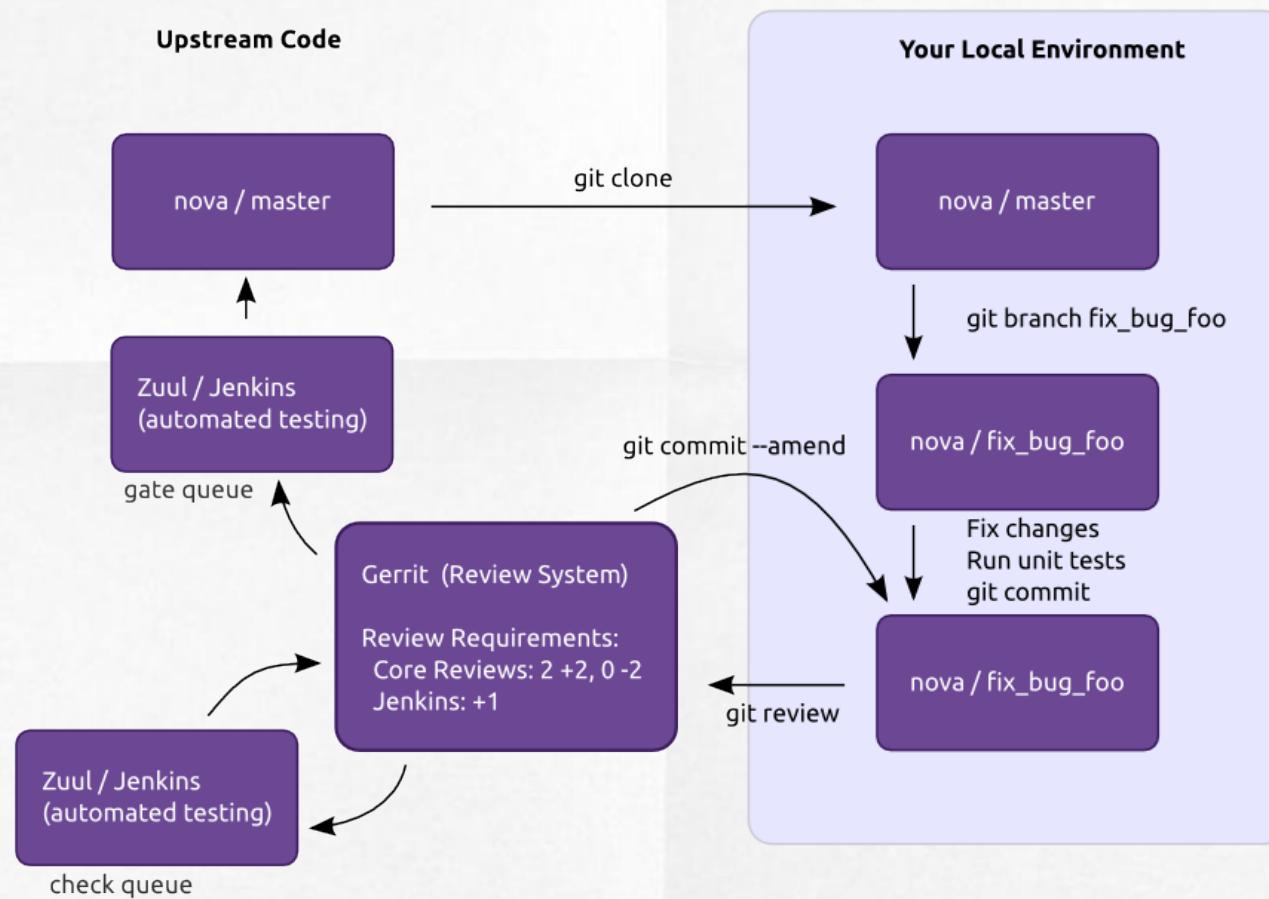
2.

# OpenStack Contribution Process

# OpenStack Contribution Process



# OpenStack Contribution Workflow



# LaunchPad System Overview

- **LaunchPad Example:**

<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

# 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

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

<http://github.com/spotz/vancouver18/gitandgerrit.pdf>

# StoryBoard System Overview

- LaunchPad Example:  
<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

## Filing a 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 

# 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/ope  
nstack-dev/sandbox.git

# Cloning and Branching

```
$ 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 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

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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/>

# This is a slide title

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- Here you have a list of items
- And some text
- But remember not to overload your slides with content

Your audience will listen to you or read the content, but won't do both.

# Gerrit Review

The screenshot shows a Gerrit review interface for a merged patch set. The top navigation bar includes links for All, My, Projects, People, Documentation, Changes, Drafts, Draft Comments, Watched Changes, Starred Changes, and Groups. A search bar at the top right contains the term "xing-yang".

The main content area displays a merged patch set titled "[Install] Document Nova cells and placement API". The commit message indicates it's part of the Ocata release, requiring a basic cell\_v2 setup and the Placement API service.

Key details from the commit message:

- Change-Id: I3ad1a53ea072f79cbc356248b0b000daabd5038
- Closes-Bug: #1663485
- Closes-Bug: #1669163

The patch set has the following metadata:

- 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
- Project: openstack/openstack-manuals
- Branch: master
- Topic: bug/1663485
- Updated: 2 days ago

Review statistics:

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

Build logs show Jenkins checks and gate-openstack-manuals-tox-checkinnessexubuntu-xenial builds:

- Jenkins check: Mar 21 8:36 PM
- gate-openstack-manuals-tox-checkinnessexubuntu-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-checkinnessexubuntu-xenial: SUCCESS in 3m 41s
- gate-openstack-manuals-tox-doc-publish-checkbuild: SUCCESS in 7m 25s

The "Files" section shows the commit message and file paths with their respective comment counts:

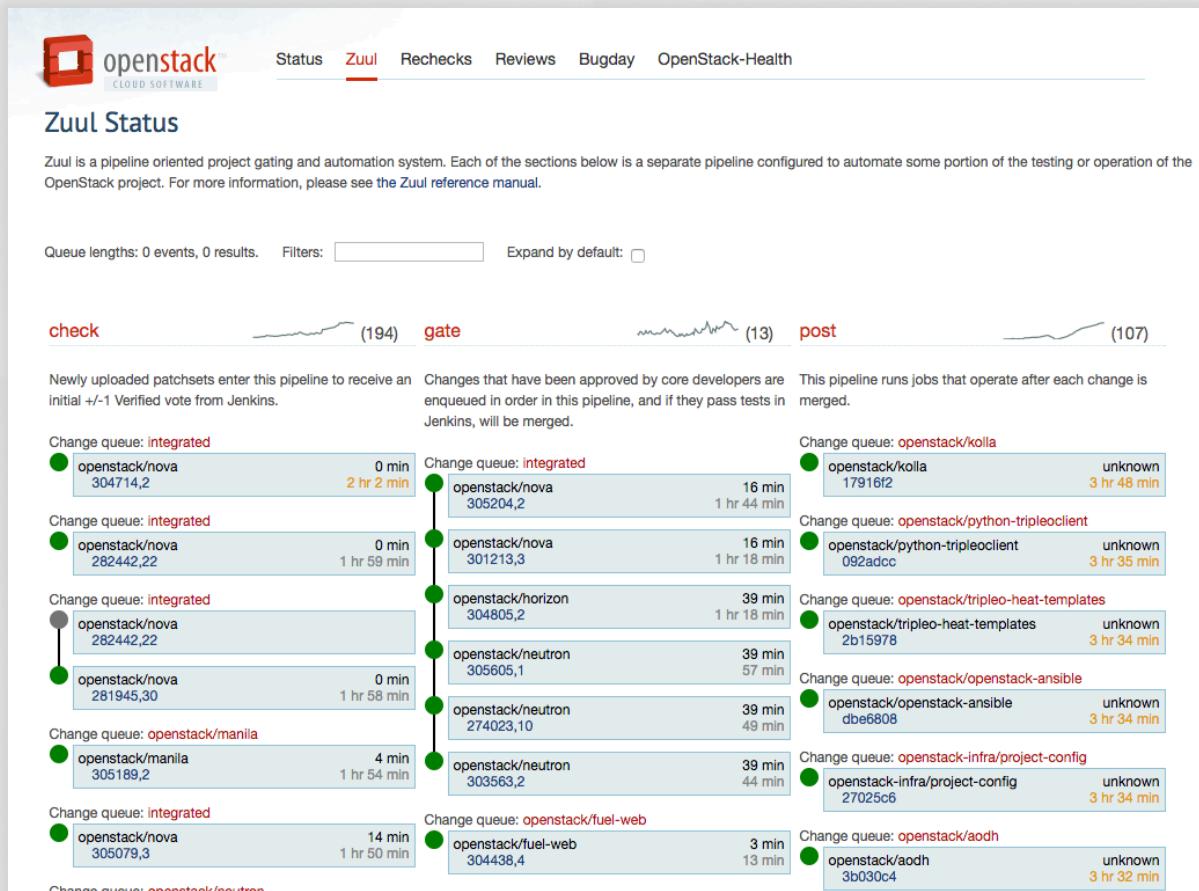
File Path	Comments
Commit Message	4
doc/common/get-started-compute.rst	2
doc/install-guide/source/environment-security.rst	61
doc/install-guide/source/nova-compute-install.rst	198
doc/install-guide/source/nova-controller-install.rst	57
doc/install-guide/source/nova-verify.rst	+287, -35

The "History" section tracks changes made by various reviewers:

- Brian Moss: Uploaded patch set 1, Patch Set 1: Workflow-1
- Alexandra Settle: Patch Set 1: (2 comments), Minor stuff :) But you're still WIP, doc/install-guide/source/nova-controller-install.rst Line 498: "nova\_cell"
- Amy Marrich (spotz): 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

<http://github.com/spotz/vancouver18/gitandgerrit.pdf>

# Zuul Status



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## Additional Exercises

## Edit a Patch

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- 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`

## Abandon Commit

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```
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>
  - <https://docs.openstack.org/contributors/common/irc.html>
- Mail Lists -  
[https://wiki.openstack.org/wiki/Mailing\\_Lists](https://wiki.openstack.org/wiki/Mailing_Lists)

# Reference Materials

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- 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

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- 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>

# Thanks!

Any questions?

You can find me at:  
spotz  
@spotzz\_