

How to Participate/Contribute to Open Source

- Open Source tooling and community in the upstream -

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@Room 201, 13:45-14:30, October 6, 2019

@openSUSE.Asia Summit 2019
<https://github.com/masayukig/oss-development-inside-story>

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Agenda

1. About me
2. Today's Goal
3. Open Source Communities
4. OpenStack as an example
5. True Stories
6. How to Participate
7. Summary

DISCLAIMER

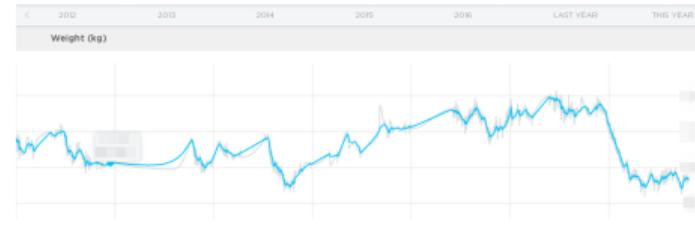
These slides are my own opinion

About me

- ▶ Company : 1998.4-2015.12 Traditional IT company in Japan,
2016.1-2017.3 HPE -> 2017.3- SUSE -> 2019("Further Independence for SUSE")
 - ▶ SUSE OpenStack Cloud Team
- ▶ Job: Senior Software Engineer/Open Source Programmer
 - ▶ [OpenStack QA](#) Up/Downstream development, Core Reviewer
(Tempest, OpenStack-Health, Subunit2SQL, Stackviz,etc.), [stestr](#)
 - ▶ stackalytics.com/?user_id=igawa, github.com/masayukig



- ▶ Books
 - ▶ [OpenStack Cloud Integration](#) (Japanese book) (one of the authors)
 - ▶ [Infra CI Pragmatic Guide - Ansible/GitLab](#) (Japanese book) (as a reviewer)
- ▶ Hobby: Jogging, Bike(BMC SLR02), Clouds(OpenStack...), Diet(Low-carb), etc.



Introduction

Are you a User/Developer...?

- ▶ An Open Source Software isn't generated automatically
- ▶ Someone resolved bugs, wrote, tested, etc.
- ▶ Someone wrote documents, filed bugs, advertised, etc.
- ▶ If you're just a user, why not contribute?

Today's Goal

- ▶ Development ways/tools in OpenStack/OSS communities
- ▶ Challenges in OSS development, but it's fun :)

Open Source Communities?

There are a lot of styles. All OSS projects are different.

Examples: Led/Supported/Managed by

- ▶ Individual (so many, you can find a lot on github)
- ▶ One company (openSUSE, Ansible, Elastic Search, ...)
- ▶ Foundation (OpenStack, Kubernetes, Linux kernel, ...)



openSUSE

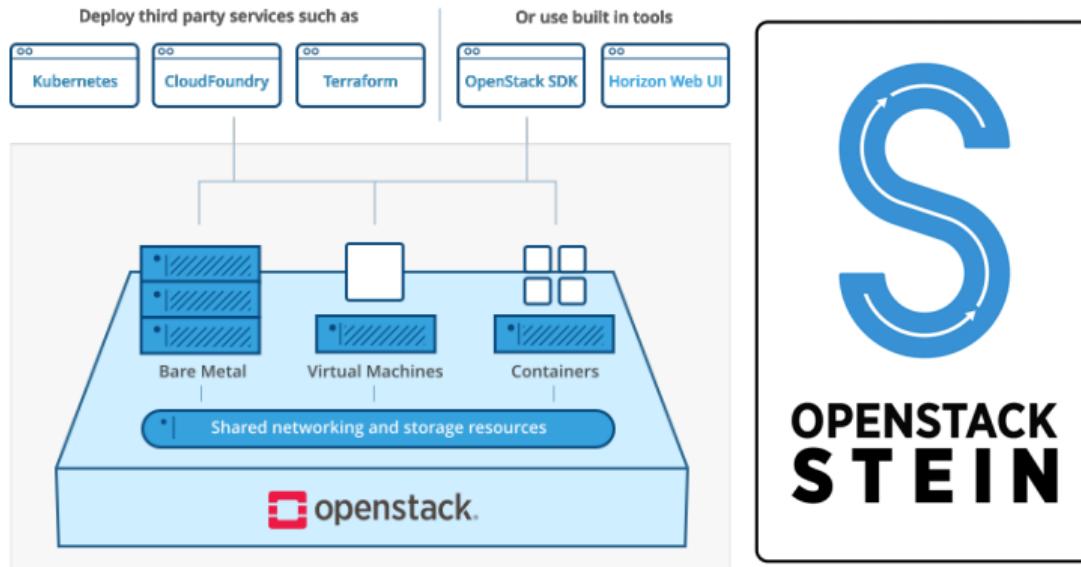


Let's take a look at the OpenStack community as an example.

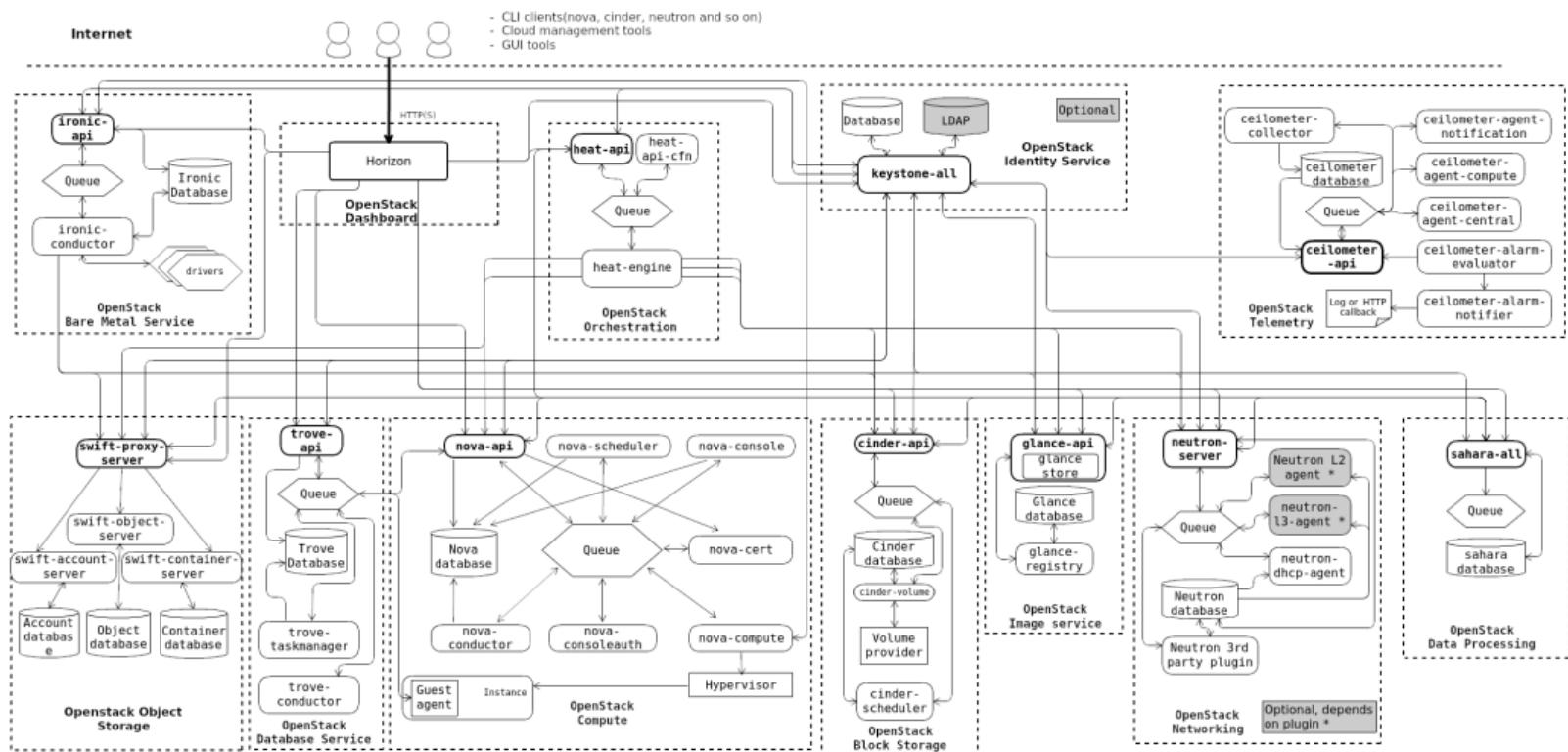
OpenStack community

What is the “OpenStack”?

- Written in Python, Open Source Cloud Operation System: Apache License 2.0
- One of the top three active OSS communities
- There are a lot of ‘OpenStack’ projects: [63 projects\(2019-10-05\)](https://www.openstack.org/projects/)
- Released every 6 month: Latest version is called ‘Stein’
- Users: AT&T, AA, BBVA, Bloomberg, CERN, China Mobile, Gap, VEXXHOST, Volkswagen, WALMART, etc.. <https://www.openstack.org/user-stories/>



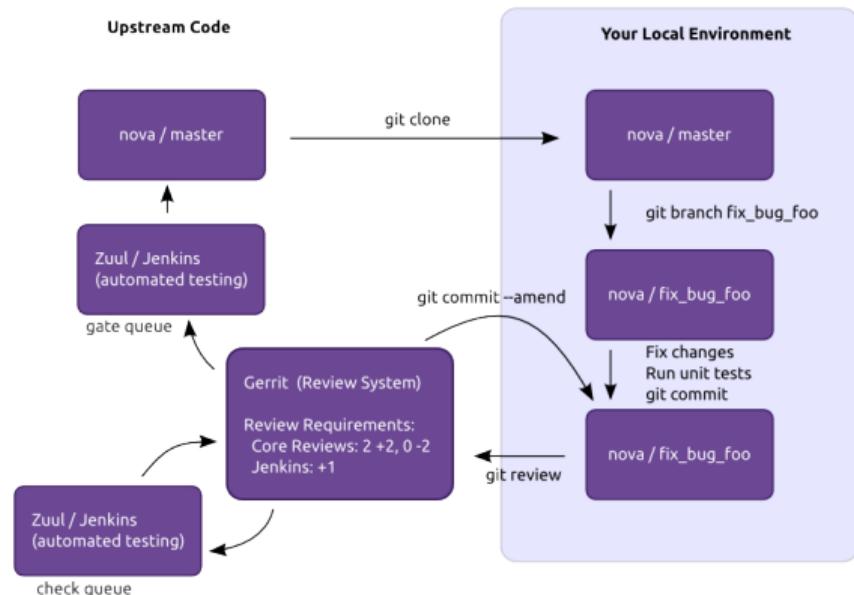
Actual (What is the “OpenStack”?)



Development Workflow in OpenStack

<https://docs.openstack.org/infra/manual/developers.html>

1. Submit a story to StoryBoard & discuss (Option)
2. Make a patch and submit it to Gerrit
3. Automated testing by Zuul
4. Review it on Gerrit
5. Automated testing by Zuul, and merge



Tools & Communication

- ▶ IRC on Freenode: `#openstack-*`(dev,nova,glance,qa,..) <https://freenode.net/>
- ▶ Mailing List: <http://lists.openstack.org/>
- ▶ StoryBoard: <https://storyboard.openstack.org/>
- ▶ Launchpad: <https://launchpad.net>
- ▶ Gerrit: <https://review.opendev.org/>
- ▶ Gitea: <https://opendev.org/openstack/>
- ▶ Zuul: <https://zuul.openstack.org>
- ▶ OpenStack-Health: <http://status.openstack.org/openstack-health/>

Welcome to freenode — supporting free and open source communities since 1998

Chat Register a group Knowledge Base

Did you hear? freenode #live is coming to town!

most from Handshake on 2018-10-01

A little over a month from now, the second freenode #live will take place at me the Comes in Bristol. With talks from many free and open source community leaders such as Leslie Newson, VM brenton, Chris Lamb and Bradley Kuhn, freenode #live once again brings an international free software gathering to the South West.

Other exhibitors at this years event will be the returning main sponsor, [Private Internet Access](#), as well as the Free Software Foundation, OpenSUSE, Mintest, Linux journal and the Handshake Project.

Handshake is a new decentralized alternative DNS root, and for a short time before

List	Description
lists.openstack.org	[no description available]
lists.openstack-admin	[no description available]
lists.openstack-announce	The OpenStack Community Team is the main contact point for anybody running a local OpenStack Group. [no description available]
lists.openstack-candidate	The Enterprise working group [no description available]
lists.openstack-communications	The Enterprise working group [no description available]
lists.openstack-dev	General discussion list for activities of the OpenStack Foundation
lists.openstack-board	OpenStack Foundation Board of Directors
lists.openstack-testing	working group to set the openstack foundation testing standards for humans not drivers
lists.openstack-translations	Translators
lists.openstack-meeting	Meeting Working Group Mailing List
lists.openstack-l10n	Discussions on legal matters related to the project
lists.openstack-marketing	The OpenStack Marketing List is the means to facilitate discussion and best practice sharing among marketers and event organizers in the OpenStack community
lists.openstack-general	The OpenStack General mailing list
lists.openstack-announce	Announcements from the OpenStack & Security advisories [no description available]
lists.openstack-candidates	Proposed changes to the OpenStack codebase
lists.openstack-content	The team responsible to write content for openstack.org domains
lists.openstack-de	List for German speaking OpenStack users

Welcome!

lists.openstack.org Mailing Lists

Project group information

Projects

FAQs for OpenStack

Get involved

Announcements

Log In / Register

Project management by StoryBoard - What's "StoryBoard"

- ▶ Story management tool developed by the OpenStack community
- ▶ Built from scratch, <https://opendev.org/opendev/storyboard/>
- ▶ Architecture: Frontend: JS/Angular, Backend: Python/Pecan
- ▶ 100% open source (Apache2.0)

The screenshot shows the StoryBoard application interface. The left sidebar has a dark theme with white icons and labels: 'Search' (magnifying glass), 'Dashboard' (cloud), 'Worklists & Boards' (two overlapping squares), 'Project Groups' (cube), and 'Projects' (cube). Below these are 'Stories' (document) and 'About'. The main area has a light background. At the top, there's a red header bar with the 'Storyboard' logo, a 'Create New...' button, a search bar labeled 'Jump to...', and a user dropdown for 'Masayuki Igawa'. The main content area is titled 'openstack-infra/storyboard' with a star icon. It features a table of stories:

Story ID	Description	Status	Actions
2004103	unable to install mariadb on multinode architecture	Active	[View] [Star]
2004098	Create New fails to create stories	Active	[View] [Star]
2004097	story lists in project view should only show stories with active tasks for that project	Active	[View] [Star]
2003944	Auto populate assignee to task when review is pushed	Active	[View] [Star]
2003886	Project Group Descriptions	Active	[View] [Star]
2003719	BUG: Card links don't work in boards	Active	[View] [Star]
2003701	Mixed Story & Task Automatic Worklist Error	Active	[View] [Star]
2003698	Feature Request: Enforce flavor extended parameters	Active	[View] [Star]
2003663	Browsing tasks on the search view sometimes gives an error	Active	[View] [Star]
2003554	Unicode issue with (at least) reporter names in migration from Launchpad	Active	[View] [Star]

Gerrit review system - What's "Gerrit"

- Android development community is using it
- Java, 100% open source, <https://www.gerritcodereview.com>
- No Pull Request, submit a patch and merge it into a central repo
- A terminal client exists > Gerty: <https://gerty.readthedocs.io/>

The screenshot shows the Gerrit Code Review interface. At the top, there are two navigation bars: one for Gerrit Code Review and another for OpenStack. The Gerrit bar includes links for About, News, Issues, Code, Docs, Feedback, and Search. The OpenStack bar includes links for Projects, Documentation, and status open, along with tabs for Open, Merged, and Abandoned.

The main content area features a dashboard with four cards:

- Discuss code:** An icon of a speech bubble. Description: "Boost your team's code flu by talking about specifics." Call-to-action: "Learn More".
- Serve GR:** An icon of a person with a gear. Description: "As an integrated experience within the larger code review flow." Call-to-action: "Learn More".
- Manage workflows:** An icon of a lock. Description: "With deeply integrated and delegatable access controls." Call-to-action: "Learn More".
- Download:** An icon of a download arrow. Description: "Our latest release is: 2.15.6". Call-to-action: "Download".

Below the dashboard, there is a section titled "Discuss code" which displays a code diff between two changesets. The diff shows a conflict in the file `gerrit/gerrit/patchsetdiff/patchsetdifferencer.java`. The conflict is highlighted in red and yellow, indicating a merge conflict between changeset 11 and 22.

The OpenStack status bar at the bottom shows a table of patches across various projects and branches, each with a status (e.g., CR, V, W) and a green checkmark.

Subject	Status	Owner	Project	Branch	Updated	Size	CR	V	W
Add new policy action v3a_autohealing	Open	BhagyaShivale	openstack/tacker	master (b729901)	3:25 PM	3.25	1	1	1
[NFS] Temporarily remove ha guide from index	Merged	Andreas.Jaeger	openstack/openstack-manuals	master (b729901)	3:23 PM	3.23	1	1	1
[WIP] Add native OVSDB implementation for AddInterface	Open	Rodolfo.Monsu.Hernandez	openstack/nfv-restriction	master (b729901)	3:25 PM	3.25	1	1	1
Node Exporter: allows to set collectors enable/disable	Open	Jawon.Choo	openstack/openstack-helm-infra	master (v0.1_collector)	3:25 PM	3.25	1	1	1
Add charts for Elastic Beats	Merged	Steve.Wilkerson	openstack/openstack-helm-infra	master (add_elastic_beats)	3:25 PM	3.25	1	1	1
Check pep8 without ignoring D400	Merged	Dan.Cong.Tien	openstack/cinderometer	master	3:24 PM	3.24	1	1	1
Further refine tuning changes for Ceph	Open	Matthew.Heller	openstack/openstack-helm-infra	master (Ceph_TUNING)	3:24 PM	3.24	1	1	1
Add jobs table for bp add-myosq-support-for-freezer	Open	georgsch2	openstack/freezer-api	master (bp/add-myosq-support-for-freezer)	3:24 PM	3.24	1	1	1
Add session api for bp add-myosq-support-for-freezer	Open	gecang	openstack/freezer-api	master (bp/add-myosq-support-for-freezer)	3:24 PM	3.24	1	1	1
Add session table for bp add-myosq-support-for-freezer	Open	gecang	openstack/freezer-api	master (bp/add-myosq-support-for-freezer)	3:24 PM	3.24	1	1	1
[OpenStack] Create Araneus manifest file to deploy Ranges	Open	Chi.Li	openstack/openstack-helm-addons	master (zinger_manifest)	3:24 PM	3.24	1	1	1
Release forstein reimplementation for tripleo	Open	Juan.Antonio.Osorio.Ballesteros	openstack/release	master (tripleo_release)	3:23 PM	3.23	1	1	1
Implement Ceph Client helm test	Open	Reinis.Makadala	openstack/openstack-helm-infra	master (599915)	3:23 PM	3.23	1	1	1
ceph: make log directory configurable	Open	chirasaSubramanyamVaradarajan	openstack/openstack-helm-infra	master	3:23 PM	3.23	1	1	1
starting@headless:~\$ cronjobs	Open	Dmitrii.Kulakov	openstack/tacker-helm	master	3:23 PM	3.23	1	1	1
ceph: add cephadm module	Open	Mike.Chen	openstack/keystone	master (trivial)	3:23 PM	3.23	1	1	1
Add deliverables file for ansible-role-openstack-operations-for-stable	Open	Juan.Antonio.Osorio.Ballesteros	openstack/release	master (tripleo_release)	3:22 PM	3.22	1	1	1
Add zabbix status upgrade check command	Open	Rajat.Dhurjani	openstack/zabbix	master (upgrade-checkers)	3:22 PM	3.22	1	1	1

FYI: Gerty - Gerrit in TTY

- Terminal client
- <https://gerty.readthedocs.io/>
- Demo

File Edit View Bookmarks Settings Help

Unreviewed 51 changes in openstack/tempest Error Sync: 0

Number	Subject	Branch	Topic	Owner	Updated	Size	C	V	W
570287	Deprecate available filters in favor of enabled	master	bug/1628443	Arton Llfshitz	2018-10-24	1	1	1	1
549111	Add test test_create_server_with_bdm_source_image	master	bdm_image	zhufl	2018-10-24	1	1	1	1
602981	Update REVIEWING docs with fast-track approval process	master	reviewing	Felipe Montelro	2018-10-24	1	1	1	1
612277	[Negative] Extend volume over quota limit	master	extend_volume_negati	Liron Kuchlani	2018-10-23	1	1	1	1
588120	Set max microversion 2.35 for nova floatingip and securitygroup	master	bp/clear-deprecated-	zhufl	2018-10-23	2	1	1	1
611068	Make connectivity test less backend dependent	master	bug/1798317	Lucas Alvares Gomes	2018-10-23	1	1	1	1
523935	Add profiler support into Tempest	master	profiler	Ilya Shakhat	2018-10-23	1	1	1	1
602415	Use tempest run command directly for full job	master	use-tempest-run	Masayuki Igawa	2018-10-22	1	1	1	1
560073	Forbid oslo.log to write to STDOUT	master	bug/1764375	Federico Ressi	2018-10-19	1	1	1	1
606909	Adding missing test case of account generator resources	master	606880	Manik Bindlish	2018-10-18	2	1	1	1
609644	Add response schema validation for volume limits	master	bp/volume-response-s	zhufl	2018-10-18	1	1	1	1
608706	Add ipv6 tempest jobs	master	ipv6job	Antonio Ojea	2018-10-17	1	1	1	1
587748	Adding missing test cases in "test_run.py"	master	bp/tempest-cli-unit-	Manik Bindlish	2018-10-17	1	1	1	1
594037	Add testcase for getting hypervisor servers in 2.53	master	hypervisor-252	zhufl	2018-10-16	1	1	1	1
600921	Add response schema validation for snapshot manage	master	bp/volume-response-s	zhufl	2018-10-13	1	1	1	1
605600	Add response schema validation for volume quota classes	master	bp/volume-response-s	zhufl	2018-10-13	1	1	1	1
609624	Add response schema validation for volume snapshots	master	bp/volume-response-s	zhufl	2018-10-12	1	1	1	1
606809	Add response schema validation for encryption types	master	bp/volume-response-s	zhufl	2018-10-12	1	1	1	1
608875	Add response schema validation for volume manage	master	bp/volume-response-s	zhufl	2018-10-12	1	1	1	1
534250	Check network connectivity of the instance before and after live migration	master	scenario.live_migrat	Liang Hao	2018-10-11	1	1	1	1
608898	Add response schema validation for volume transfer	master	bp/volume-response-s	zhufl	2018-10-11	1	1	1	1
605595	Add response schema validation for volume extensions	master	bp/volume-response-s	zhufl	2018-10-10	2	1	1	1
605985	Add response schema validation for volume types	master	bp/volume-response-s	zhufl	2018-10-10	1	1	1	1
606772	Add response schema validation for volume group snapshots	master	bp/volume-response-s	zhufl	2018-10-10	1	1	1	1
603339	Add response schema validation for volume quota set	master	bp/volume-response-s	zhufl	2018-10-10	1	1	1	1
605917	Add response schema validation for volume pools	master	bp/volume-response-s	zhufl	2018-10-09	1	1	1	1
606328	Add response schema validation for volume groups	master	bp/volume-response-s	zhufl	2018-10-09	1	1	1	1
606244	Add response schema validation for volume group types	master	bp/volume-response-s	zhufl	2018-10-08	1	1	1	1
603580	Add response schema validation for volume messages	master	bp/volume-response-s	zhufl	2018-10-08	1	1	1	1
605574	Add response schema validation for volume capabilities	master	bp/volume-response-s	zhufl	2018-10-08	1	1	1	1
589279	Immutable user source: test_llst_users	master	bug/1777847	Anna Pankiewicz	2018-10-05	1	1	1	1
587878	Immutable user source: test_credentials	master	bug/1777847	Anna Pankiewicz	2018-09-27	1	1	1	1
588393	Immutable user source: test_default_project_id	master	bug/1777847	Anna Pankiewicz	2018-09-27	1	1	1	1
588395	Immutable user source: test_users_negative	master	bug/1777847	Anna Pankiewicz	2018-09-27	1	1	1	1
607726	Use system creds for system operations	master	system-creds	Jamie Lennox	2018-09-25	1	1	1	1
384528	Adds protocol options for test_cross_tenant_traffic	master	bug/1363986	Claudiu Belu	2018-09-20	2	1	1	1
603295	Add response schema validation for volume hosts	master	bp/volume-response-s	zhufl	2018-09-20	1	1	1	1

↳ Subscribed projects

Gitea - Git with a cup of tea

- A painless self-hosted Git service
- Golang, MIT license
- <https://gitea.io>

The screenshot shows the Gitea interface for the `openstack / tempest` repository. At the top, there are tabs for `Code` (selected) and `Issues`. Below the tabs, it displays `OpenStack Testing (Tempest) of an existing cloud`. It shows `13059 Commits`, `1 Branch`, and a pull request from `Matthew Treinish` (PR #13059). The commit message is `Add release note for log_req_body_kwarg`. The commit details show changes in the `doc`, `etc`, `playbooks`, `releasenotes`, `roles`, `tempest`, `tools`, `coverage`, `glitstone`, `glreview`, `mailmap`, `stestrconf`, `zuulyaml`, and `CONTRIBUTING.rst` files. The commit was made 14 hours ago.

The screenshot shows the Gitea interface for the `openstack / tempest` repository, specifically on the `tempest / tempest / managerpy` branch. At the top, there are tabs for `Code` (selected) and `Issues`. Below the tabs, it displays `OpenStack Testing (Tempest) of an existing cloud`. It shows `13059 Commits`, `1 Branch`, and a file named `manager.py`. The file content is a Python script with the following code:

```
# Copyright 2012 OpenStack Foundation
# All Rights Reserved.
#
# Licensed under the Apache License, Version 2.0 (the "License"); you may
# not use this file except in compliance with the License. You may obtain
# a copy of the License at
#
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
# WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
# License for the specific language governing permissions and limitations
# under the License.

from oslo_log import log as logging
from tempest import clients as tempest_clients
from tempest import config
from tempest.lib.services import clients
CONF = config.CONF
LOG = logging.getLogger(__name__)

class Manager(clients.ServiceClients):
    """Service client manager class for backward compatibility"""



```

Continuous Integration by Zuul - What's "Zuul"

- <https://zuul-ci.org/>
- Set a gate by automated testing - Stop Merging Broken Code
- CI/CD powered by Ansible
- Cross-Project Dependencies can be tested

ZUUL

Status Jobs Builds

Queue lengths: 0 events:0 management events:0 results.

change or project name Expand by default:

check [110]

Newly uploaded patchsets enter this pipeline to receive an initial +/−1 Verified vote.

Queue openstack/tripleo-heat-templates

- openstack/tripleo-heat-templates
612249.1
- openstack/tripleo-heat-templates
612316.1
- openstack/tripleo-heat-templates
612601.1
- openstack/tripleo-heat-templates
612602.1 0 min 3 hr 51 min

gate [15]

Changes that have been approved by core reviewers are enqueued in order in this pipeline, and if they pass tests, will be merged. For documentation on how gating with Zuul works, please see <https://zuul-ci.org/docs/zuul/user/gating.html>

Queue: tripleo

- openstack/tripleo-quickstart-extras
609550.3 15 min 2 hr 39 min
- openstack/tripleo-quickstart
612289.1 25 min 2 hr 5 min
- openstack/tripleo-heat-templates
611309.3 2 hr 20 min 46 min

post [0]

This pipeline runs jobs that operate after each change is merged. Queue items are identified by the abbreviated hash (git log --format=%h) of the merge commit.

promote [0]

This pipeline runs jobs that operate after each change is merged in order to promote artifacts generated in the gate pipeline.

pre-release [0]

When a commit is tagged with a pre-release tag, this pipeline runs jobs that publish archives and documentation.

release [0]

When a commit is tagged as a release, this pipeline runs jobs that publish archives and documentation.

periodic [0]

Jobs in this queue are triggered on a timer.

release-post [0]

This pipeline runs release-process-critical jobs that operate after specific changes are merged.

tag [0]

This pipeline runs jobs in response to any tag event.

periodic-stable [0]

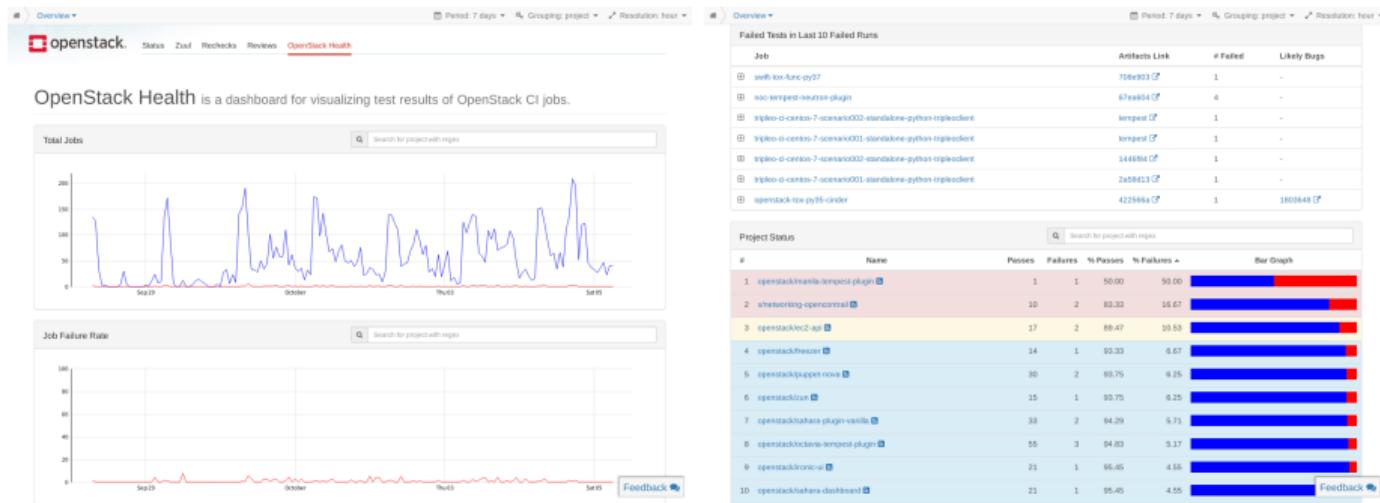
Periodic checks of the stable branches

Documentation Tenant: openstack

refresh auto reload

Gate Health check by OpenStack Health

- A dashboard for visualizing test results of OpenStack CI jobs
- Built from scratch, <https://opendev.org/openstack/openstack-health/>
- Architecture: Frontend: JS/Angular, Backend: Python/Flask
- 100% open source (Apache2.0)



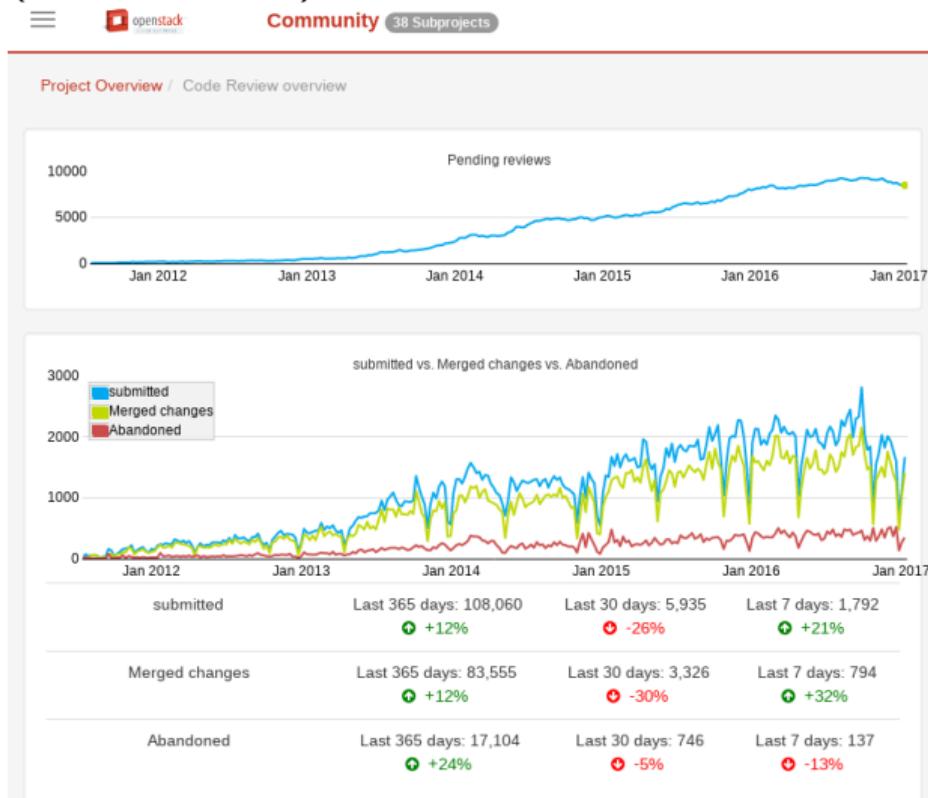
Inside Story

1. Very long time to get merged, why?
2. Unstable and Slow CI
3. Communication is important

1. Very long time to get merged, why?

- ▶ Project size \asymp Number of stakeholders
- ▶ Less communication
- ▶ Less reviewers, Unstable and Slow CI (next slides)

1. Less reviewers (cont. Why?)



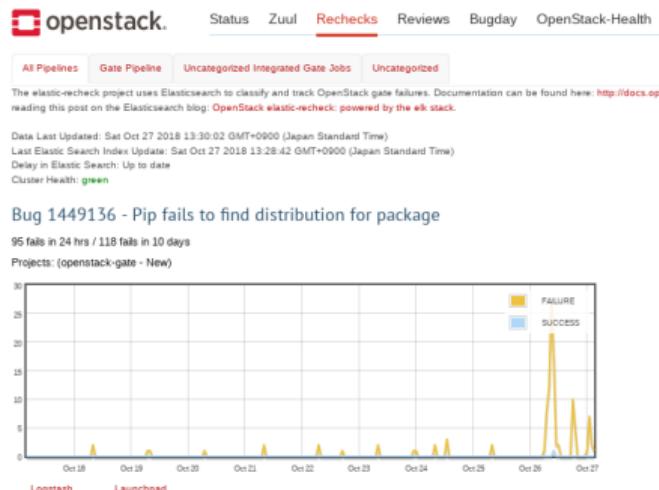
<http://activity.openstack.org/dash/browser/scr.html>

2. Unstable and Slow CI

- ▶ Easily rot if the code doesn't work in CI
- ▶ “CI” is not perfect
- ▶ Busy neighbors problem
- ▶ Rapid fixing is necessary - next slide

2. Elastic Recheck (cont. Unstable and Slow CI)

Correlate a bug to a signature in a log, and detect the bug automatically



A screenshot of a log file viewer showing a single entry for bug 1449136. The entry is titled "1449136.yaml 128B". Below the title are buttons for Raw, Permalink, Blame, History, and edit/delete icons. The log entry itself is as follows:

```
1 query: >-
2   (message:"No matching distribution found for" OR message:"\nNo match
3   AND tags:console
```

<http://status.openstack.org/elastic-recheck/>, <https://opendev.org/opendev/elastic-recheck/src/branch/master/queries/1737039.yaml>

3. Communication is important (English is hard)

- ▶ Discussion
- ▶ Find a job (e.g. difficult to get good salary as a programmer basically in Japan)
- ▶ Fun (Take care of yourself! :)

Masayuki Igawa @  ●
@masayukig

#aftersoc #afterstack #OpenStackSummit
#openstack #suse



1:45 PM - 26 May 2018

12 Likes 

Comment Share Like 12 More

Kendall Nelson  Following
@knelson92

Kicking off the #OpenStackSummit early with #OpenStackUpstreamInstitute! 19 attendees and 14 mentors made it today :)
@tonybreeds @jungleboyj @ldikoVancsa @vkmc @kmarc @marton_kiss @spotzz_ @ghanshyammann @masayukig



6:59 AM - 20 May 2018

7 Retweets 31 Likes 

Comment Share Like 1 Retweet 7 More

3. English as a second language (cont. Communication is important)

- We have a document: <https://docs.openstack.org/doc-contrib-guide/non-native-english-speakers.html>
- Not only language but also culture (For example: Zensho shimasu (善処します))

The screenshot shows the OpenStack Documentation website. At the top, there is a navigation bar with links for Software, Users, Community, Marketplace, Events, Learn, Docs, Join, and Log In. Below the navigation bar, there is a search bar and a logo for 'openstack.'. The main content area has a header 'Non-native English speakers'. Below the header, it says 'THIS PAGE LAST UPDATED: 2019-09-30 11:35:45'. The main text discusses communication challenges for non-native English speakers in the OpenStack community. A 'Note' section provides information about a talk at linux.conf.au 2017. Below this, there is a section titled 'New contributors with English as a second language' which includes a note about cultural differences and language skills.

openstack. SEARCH SOFTWARE USERS COMMUNITY MARKETPLACE EVENTS LEARN DOCS JOIN LOG IN

OpenStack Documentation

Documentation Contributor Guide

Quickstart Documentation team structure 2017/2018 documentation team vis...

Non-native English speakers

- New contributors with En...
- Working with non-native E...

Blueprints and specifications Project guide setup

Landing pages on docs.openstack... Governance tag documentation gui...

OpenStack API documentation Documentation bugs Writing documentation Writing style

OpenStack user experience and use... RST conventions JSON conventions Diagram guidelines

Non-native English speakers

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OpenStack projects communicate in English, and our documentation is written in US English. However, many documentation contributors have English as a second (or third, or fourth) language. This poses many challenges for non-native English speakers, but there are some things that native English speakers can do to make it easier to include non-native speakers in our community. This chapter contains some suggestions for both native and non-native English speakers to help make our community more inclusive and welcoming for all people.

Note

This chapter was written based on the wonderful talk given by Masayuki Igawa, Dong Ma, and Samuel De Medeiros Queiroz at linux.conf.au in 2017. Thank you for their permission to use this content, and for their feedback and support during development. You can watch their original talk on YouTube: [Non-native English speakers in Open Source communities: A True Story](#) or read their article on opensource.com: [Tips for non-native English speakers working on open source projects](#).

New contributors with English as a second language

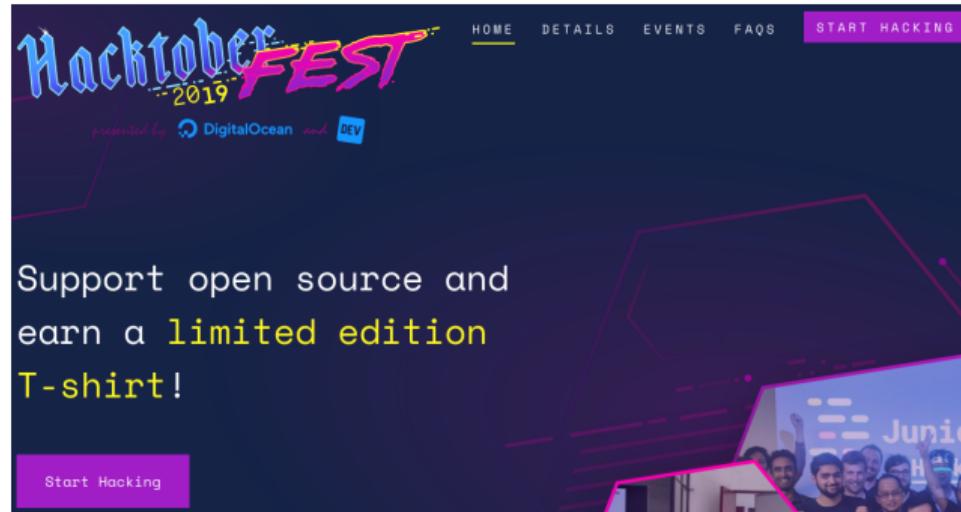
Challenges related to language skills are easier to overcome than cultural ones. Cultural differences need to be respected, while English skills can always be improved.

In order to brush up on your English skills, be in contact with the language as much as you can. Do not think about your limitations. Just do your best and you will improve eventually.

How to contribute to Open Source

How to contribute to Open Source

- ▶ Find projects which you are interested in
- ▶ Find online/offline mentor(s) and friends
- ▶ Understand culture of communities
- ▶ Not only code, using/testing, submit bugs/issues, documentation, translation, etc.
- ▶ As a study, hobby or job?
- ▶ Find events: [OpenStack Upstream training](#), [GSoC](#), [Hacktoberfest](#)
- ▶ etc.



Summary

- ▶ Gerrit, StoryBoard, Zuul, OSS can make our development efficiently
- ▶ Communication is important, and English too
- ▶ Contributing to OSS is fun! and tough sometimes. Why not participate in it?

Appendix

- ▶ Slides: [https://github.com/masayukig/oss-development-inside-story/
blob/master/oss-development-inside-story.pdf](https://github.com/masayukig/oss-development-inside-story/blob/master/oss-development-inside-story.pdf)
- ▶ Contact info: masayukig on [Freenode](#), [GitHub](#), [Twitter](#), [LinkedIn](#)
- ▶ StoryBoad:
<https://docs.openstack.org/infra/system-config/storyboard.html>
- ▶ Gerrit: <https://www.gerritcodereview.com/>
- ▶ Zuul: <https://zuul-ci.org/>
- ▶ Non-native English speakers in Open Source communities:
<http://bit.ly/esl-yvr>