OpenStack Community Activity Report
October-December, 2015
Report sponsored by the OpenStack Foundation

Bitergia

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Executive Summary

The October-December 2015 summary of OpenStack Community Activity Report[1] shows a stable growth by the OpenStack Community. As new repositories and teams keep being added, the projects keeps growing. On the other hand it is worth mentioning the decrease in the activity for some quarters in project teams such as Nova or stable ones such as Horizon or Cinder. This shows the maturity reached by the some of the project teams in the OpenStack Foundation.

Key findings:

Active Core Reviewers reach a new peak

Although Git activity does not show that big increase of activity if compared to Gerrit, the development effort in the project keeps increasing. This last quarter of 2015 the number of Active Core Reviewers reached a new record of 449 different developers.

Time to merge keeps decreasing

During the third quarter of 2015 a small increase in the time to merge trend may mean a change in the trend. However, this last quarter of 2015 keeps the previous tendency. During this period the median time to merge a changeset into master decreased from 2.91 days down to 2.38 days.

Efficiency closing tickets decreases

It is noticeable the decrease when closing tickets within the OpenStack Community. Previous quarters reached 60% of closing tickets while this quarter shows a 44% of closing ones. This could be seen as a poor performance indicator of the project teams. However, if this metric is calculated in terms of efficiency closing changesets in the review system, it keeps stable in around 80%.

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[1]This report is produced quarterly to give Community Managers and OpenStack Foundation's management better insights on development activities and online conversations. The quantitative and qualitative assessment start from tracking actions across all OpenStack git repositories, gerrit code reviews, bug trackers as well as IRC channels, mailing lists and questions/answers.

Contents

Chapter 1

Overview of the Project

The OpenStack Community Activity Report is produced quarterly to give Community Managers and OpenStack Foundation's management better insights on development activities and online conversations. The quantitative and qualitative assessment start from tracking actions across all OpenStack git repositories, gerrit code reviews, bug trackers as well as IRC channels, mailing lists and questions/answers site Ask OpenStack.

The report looks at activities across the OpenStack community during the fourth quarter of 2015, comparing it to previous eight quarters.[1].

The analysis aims at providing a detailed view of how the OpenStack project is evolving with special focus on each of the OpenStack project teams[2].

Data source	Activity 365 days	Change (wrt to prev. 365 days)
Gits	90464 commits	13%
Tickets	17735 closed tickets	38%
Mailing Lists	40685 sent emails	8%
Gerrit	92941 submitted reviews	43%
Askbot	5191 posted questions	25%
IRC	2036369 messages	4%

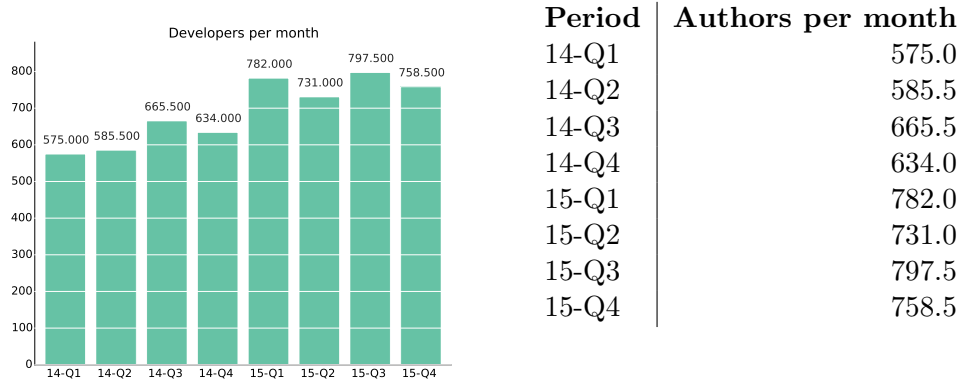Table 1.1: Activity during the last 365 days and its evolution

The overall activity keeps increasing. Specifically in the case of Gerrit,

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[1]The analyzed data sources are available in appendixB

[2]Each of the projects mentioned are following the analysis of the Projects specified at `http://git.openstack.org/cgit/openstack/governance/tree/reference/projects.yaml`. In addition, the hierarchy of projects and their repositories can be found at the correspondent appendixB

Launchpad tickets and Askbot activity.

Period	Authors per month
14-Q1	575.0
14-Q2	585.5
14-Q3	665.5
14-Q4	634.0
15-Q1	782.0
15-Q2	731.0
15-Q3	797.5
15-Q4	758.5

In this fourth quarter of 2015 the mean number of developers active per month has reached a total of 758. As similarly seen in the second quarter of 2015, these two quarters show a lower number of developer per month than in the release quarters.

The total number of contributors divided into three sets (core, regular and casual[3]) follows a similar patter.
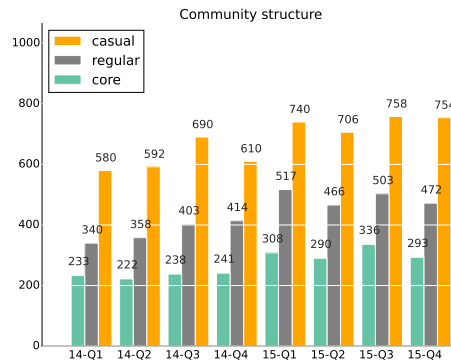
Figure 1.1: Evolution of the last 8 quarters of the core, regular and casual developers (Git activity)

[3]Contributing developers are characterized as core, regular and casual depending on their activity in the git repositories. The classification is built by sorting contributors by their total number of commits; we sum the total commits per each individual contributors: the individuals whose commits sum up to 80% of the total number of commits in the quarter are the core contributors in that quarter. The regular contributors are those whose commits sum up to 95% of the total. The others are the casual contributors.

Period	Core	Regular	Occasional
14-Q1	233	340	580
14-Q2	222	358	592
14-Q3	238	403	690
14-Q4	241	414	610
15-Q1	308	517	740
15-Q2	290	466	706
15-Q3	336	503	758
15-Q4	293	472	754

Table 1.2: Characterization of developers by their total contribution to the OpenStack projects

1.1 Methodological Notes

Main changes with respect to previous reports are the following ones:

- Addition of new repositories: this may vary aggregated numbers such as the number of contributors to the project if compared to previous analysis.

- Some of the projects that are detailed in the Governance file may not have a specific report in this analysis. This is due to their current migration under the *official OpenStack infrastructure*.

- *specs* files are not included in the analysis.

- Storyboard activity is not measured within this report. This explains low performance numbers in projects such as Infrastructure.

Chapter 2

Communication and Support-Related Activities

The OpenStack community uses several channels for communication and support-related activities. Mailing lists were initially the key place for communications, although part of the activity is moving to the questions and answers tool in the Ask OpenStack site.

2.1 Mailing Lists

The following charts show activity in terms of emails sent, people sending emails and people initiating threads per quarter. In addition, two tables are presented with the hot topics in the several analyzed mailing lists. First table shows hot topics ordered by number of total posts in such thread, while the second table shows hot topics ordered by the total number of different participants in the discussions. The two tables are based on the last quarter period of activity.

Emails sent
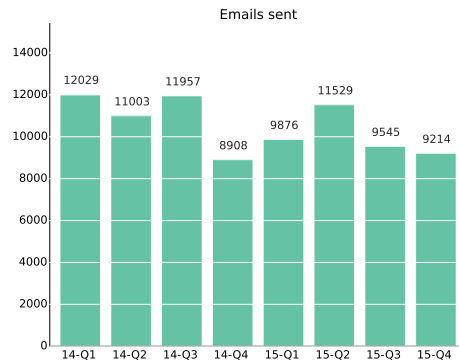
Period	Emails
14-Q1	12029
14-Q2	11003
14-Q3	11957
14-Q4	8908
15-Q1	9876
15-Q2	11529
15-Q3	9545
15-Q4	9214

People sending emails
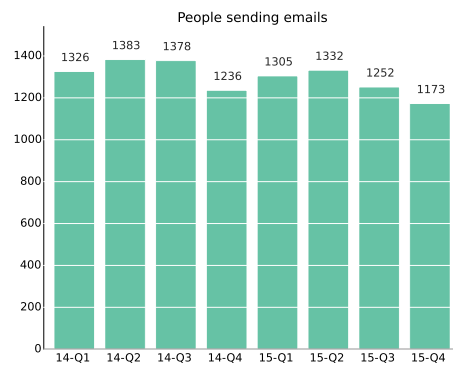
Period	People
14-Q1	1326
14-Q2	1383
14-Q3	1378
14-Q4	1236
15-Q1	1305
15-Q2	1332
15-Q3	1252
15-Q4	1173

People initiating threads
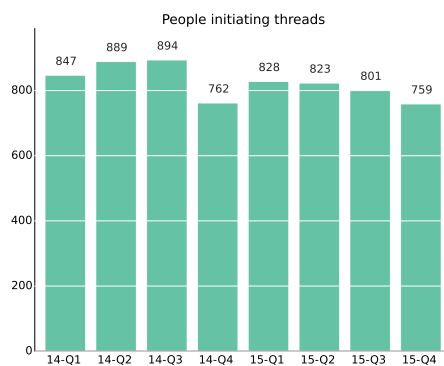
Period	People
14-Q1	847
14-Q2	889
14-Q3	894
14-Q4	762
15-Q1	828
15-Q2	823
15-Q3	801
15-Q4	759

Initial Author and Date	Subject	Number Messages
Ed Leafe 2015-10-07	[openstack-dev] Scheduler proposal	107
Tony Breeds 2015-11-06	[openstack-dev] [stable][all] Keeping Juno "alive" for longer.	39
Tang Chen 2015-10-14	[openstack-dev] [Nova] Migration state machine proposal.	39
Jonathan Proulx 2015-11-16	[Openstack-operators] OPs Midcycle location discussion.	39
Robert Collins 2015-11-03	[openstack-dev] [all] Outcome of distributed lock manager discussion @ the summit	38
Ihar Hrachyshka 2015-10-01	[openstack-dev] [neutron] New cycle started. What are you up to folks?	36
Artur Korzeniewski 2015-11-12	[openstack-dev] [nova][neutron][upgrade] Grenade multinode partial upgrade	35
Vladimir Kozhukalov 2015-11-19	[openstack-dev] [Fuel] Getting rid of Docker containers on the Fuel master node	33
Tom Cameron 2015-11-09	[Openstack-operators] [openstack-dev] [stable][all] Keeping Juno "alive" for longer.	31
Steve Martinelli 2015-11-30	[Openstack-operators] [keystone] Removing functionality that was deprecated in Kilo and upcoming deprecated functionality in Mitaka	30

2.2 Questions and Answers

The following charts show activity in the Ask OpenStack site. Total number of questions, number of answers, number of comments and people sending questions are depicted. In addition four tables represent the hot topics activity in the Ask OpenStack site. Those show information about the top visited questions, questions with the highest number of comments and questions with the highest number of different people participating.
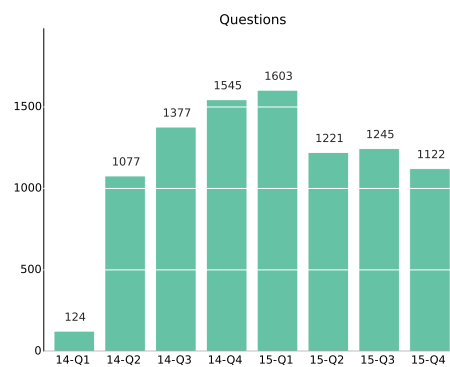
Questions

Period	Questions
14-Q1	124
14-Q2	1077
14-Q3	1377
14-Q4	1545
15-Q1	1603
15-Q2	1221
15-Q3	1245
15-Q4	1122
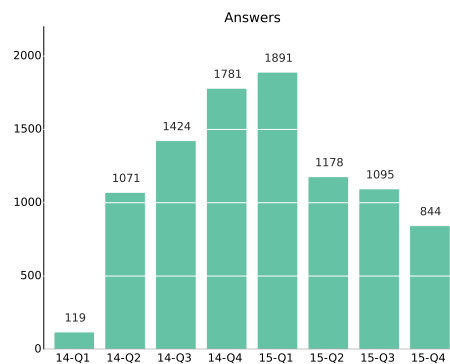
Answers

Period	Answers
14-Q1	119
14-Q2	1071
14-Q3	1424
14-Q4	1781
15-Q1	1891
15-Q2	1178
15-Q3	1095
15-Q4	844
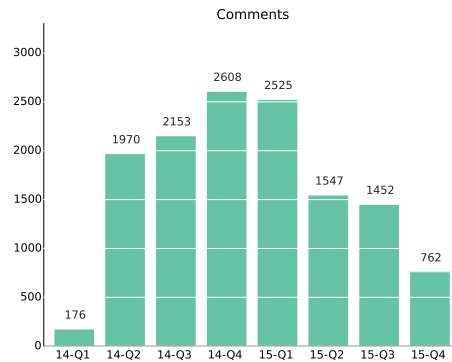
Comments

Period	Comments
14-Q1	176
14-Q2	1970
14-Q3	2153
14-Q4	2608
15-Q1	2525
15-Q2	1547
15-Q3	1452
15-Q4	762

People asking Questions
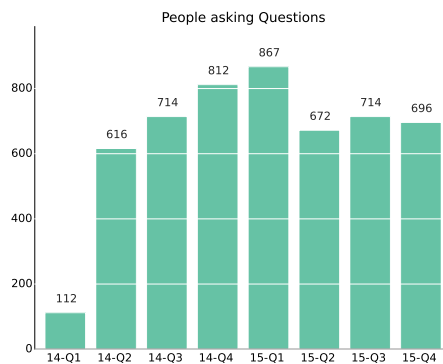
Period	People asking
14-Q1	112
14-Q2	616
14-Q3	714
14-Q4	812
15-Q1	867
15-Q2	672
15-Q3	714
15-Q4	696

- Top visited questions.

Question subject	Visits
error could not find data item+	629
how can i access my private+	176
rdoliberty invalid parameter public_address on classsaharakeystoneauth+	174
getting warning providing attr without filter_value+	148
openstack sahara api failed+	139
spin up vm from iso+	137
no valid host was found unable+	128
new instance stuck on scheduling after+	122
kilo error creating instances no valid+	115
unsupported object type networkrequestlist+	115

- Top questions with more comments.

Question subject	Comments
compute_nodes tables does not get populated+	5
instances are not able to access+	5
cant ping floating or instance ip+	5
bindingvif_type binding_failed+	5
neutron server failed to start+	5
no valid host was found there+	5
ip netns does not show anything+	5
vif_typebinding_failed and cant launch instances error+	5
error unable to retrieve usage information+	5
more tenants than floating ips how+	5

- Top questions with the highest number of different people participating.

Question subject	People participating
error could not find data item+	9
no valid host was found instance+	6
instances dont get ip addresses+	5
openstack distribution for newbie to start+	5
best approach to have instance utilization+	5
vif_typebinding_failed and cant launch instances error+	5
resize vm error+	5
no valid host was found when+	5
how can we deploy a software+	5
how to migrate a vm from+	4

2.3 IRC

Finally, the community of OpenStack uses several IRC channels for asynchronous communication. This section shows information about the total number of messages sent in the community during the last 8 quarters together with the number of the several people participating in such discussions. In addition, a list with the top participants in the IRC channels is provided.

Messages in IRC channels
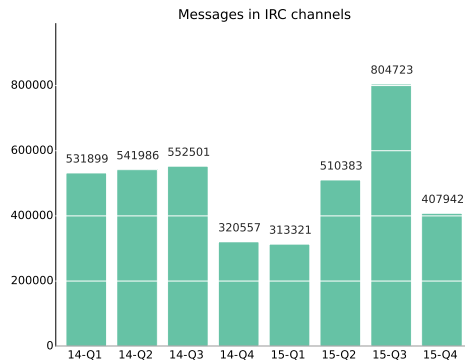
Period	Messages
14-Q1	531899
14-Q2	541986
14-Q3	552501
14-Q4	320557
15-Q1	313321
15-Q2	510383
15-Q3	804723
15-Q4	407942

People in IRC channels
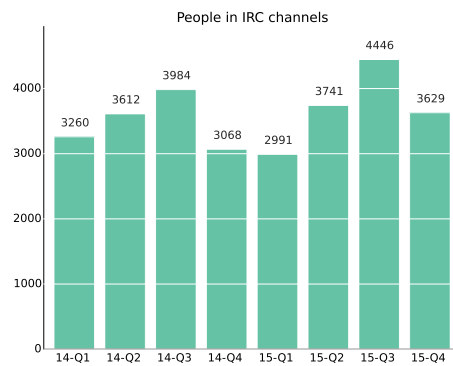
Period	People
14-Q1	3260
14-Q2	3612
14-Q3	3984
14-Q4	3068
15-Q1	2991
15-Q2	3741
15-Q3	4446
15-Q4	3629

IRC id	Messages sent
openstack	5169
anteaya	5055
Sam-I-Am	4984
mriedem	4632
SamYaple	4368
sdague	4332
clarkb	4326
mordred	3898
jroll	3515
mtreinish	3416
odyssey4me	3410
cloudnull	3187
flaper87	3147
sdake	3023
Qiming	2950

Chapter 3

Details on OpenStack Software

Each breakdown is divided into three sections with information from the last eight quarters:

- activity: centered in the following metrics: commits from git activity, submitted, merge and abandoned reviews from the review system and opened and closed tickets from the issue tracking system.

- community: active core reviewers in gerrit, active authors in git and top ten developers and top ten organizations contributing to the development in the last quarter. of each project.

- process: efficiency closing tickets, efficiency closing changesets, Time to Merge (mean and median), number of patchsets (iterations) per changeset and study on the time waiting for a reviewer or submitter action in the patchset review process.

Details on individual OpenStack project teams are provided in separate documents on `git.openstack.org/cgit/openstack-infra/activity-board/tree/reports/2015-q`

3.1 Overview of OpenStack Project Teams

3.2 Activity

Commits in Git, submitted, merged and abandoned reviews in Gerrit and opened and closed issues in Launchpad.

Commits and reviews: OpenStack Software
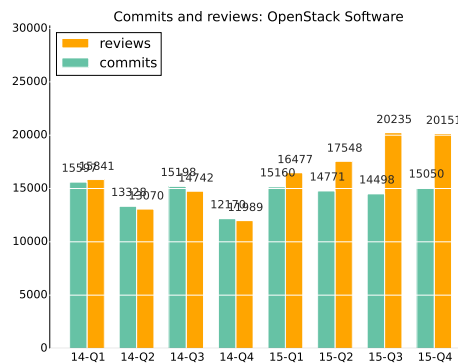
Period	Commits	Reviews
14-Q1	15597	15841
14-Q2	13328	13070
14-Q3	15198	14742
14-Q4	12170	11989
15-Q1	15160	16477
15-Q2	14771	17548
15-Q3	14498	20235
15-Q4	15050	20151

Opened and closed tickets: OpenStack Software
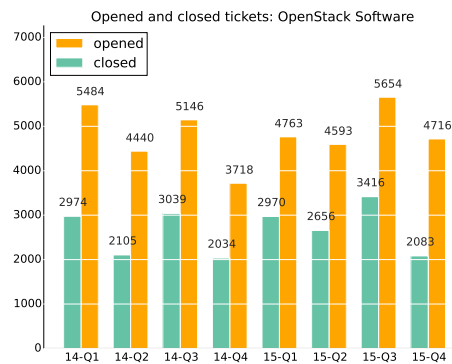
Period	Closed	Opened
14-Q1	2974	5484
14-Q2	2105	4440
14-Q3	3039	5146
14-Q4	2034	3718
15-Q1	2970	4763
15-Q2	2656	4593
15-Q3	3416	5654
15-Q4	2083	4716

Merged and abandoned reviews: OpenStack Software
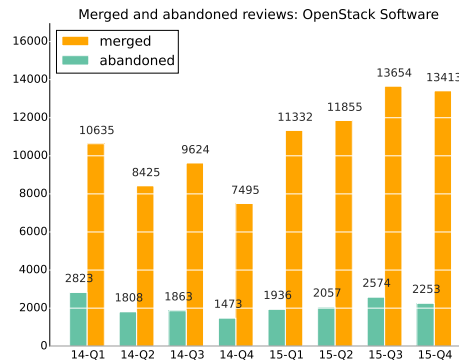
Period	Merged	Abandoned
14-Q1	10635	2823
14-Q2	8425	1808
14-Q3	9624	1863
14-Q4	7495	1473
15-Q1	11332	1936
15-Q2	11855	2057
15-Q3	13654	2574
15-Q4	13413	2253

3.3 Community

Active core reviewers in Gerrit, active authors in Git, top authors and organizations in the last quarter

Active Core Reviewers: OpenStack Software
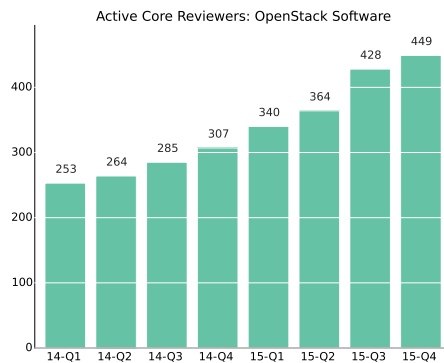
Period	Active Core
14-Q1	253
14-Q2	264
14-Q3	285
14-Q4	307
15-Q1	340
15-Q2	364
15-Q3	428
15-Q4	449

Authors OpenStack Software
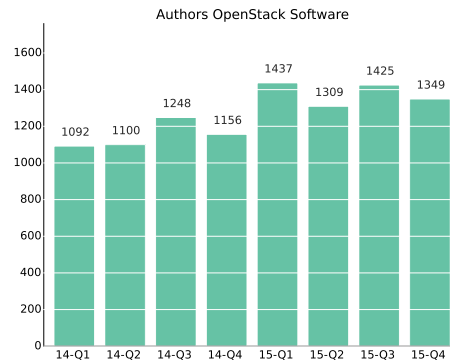
Period	Authors
14-Q1	1092
14-Q2	1100
14-Q3	1248
14-Q4	1156
15-Q1	1437
15-Q2	1309
15-Q3	1425
15-Q4	1349

Commit (s)	Author
325	Andreas Jaeger
296	Emilien Macchi
269	Monty Taylor
248	Dave Borowitz
236	David Pursehouse
185	Edwin Kempin
184	KATO Tomoyuki
178	Julien Danjou
168	Matt Riedemann
159	YAMAMOTO Takashi

Commit (s)	Organizations
2378	Red Hat
1981	HP
1464	IBM
1396	Mirantis
913	Rackspace
662	NEC
505	Fujitsu
498	Huawei
420	Intel
380	OpenStack Foundation
366	SUSE
325	VMWare
322	StackOps Technologies
297	Cisco
246	Sony Mobile
224	EasyStack
222	Midokura
204	SAP
197	99cloud

3.4 Process

Efficiency closing changesets and tickets, time to review (mean and median), number of patchests (iterations) per changeset and study on the time waiting for a reviewer or submitter action in the patchset review process.

Efficiency closing tickets: OpenStack Software
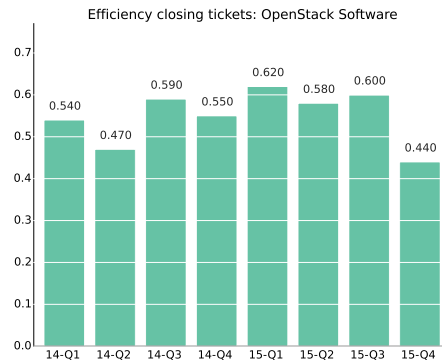
Period	Closed/Opened
14-Q1	0.54
14-Q2	0.47
14-Q3	0.59
14-Q4	0.55
15-Q1	0.62
15-Q2	0.58
15-Q3	0.6
15-Q4	0.44

Changesets efficiency: OpenStack Software
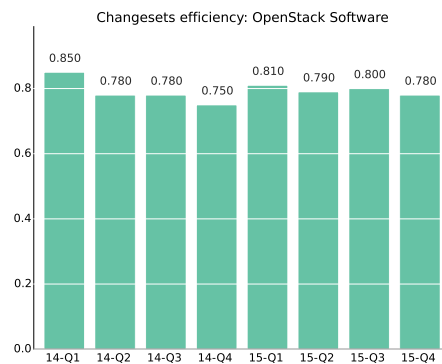
Period	(Aband. and Merg.)/Subm.
14-Q1	0.85
14-Q2	0.78
14-Q3	0.78
14-Q4	0.75
15-Q1	0.81
15-Q2	0.79
15-Q3	0.8
15-Q4	0.78

Time to merge (days): OpenStack Software
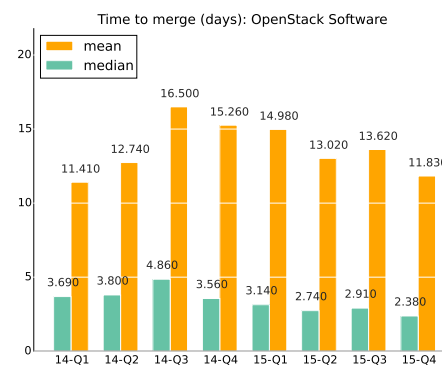
Period	Median	Mean
14-Q1	3.69	11.41
14-Q2	3.8	12.74
14-Q3	4.86	16.5
14-Q4	3.56	15.26
15-Q1	3.14	14.98
15-Q2	2.74	13.02
15-Q3	2.91	13.62
15-Q4	2.38	11.83

Patchsets per Changeset: OpenStack Software
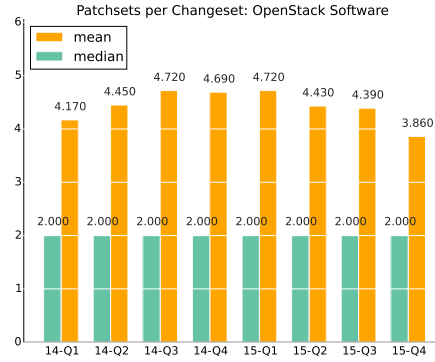
Period	Median	Mean
14-Q1	2.0	4.17
14-Q2	2.0	4.45
14-Q3	2.0	4.72
14-Q4	2.0	4.69
15-Q1	2.0	4.72
15-Q2	2.0	4.43
15-Q3	2.0	4.39
15-Q4	2.0	3.86

Time waiting for the reviewer: OpenStack Software
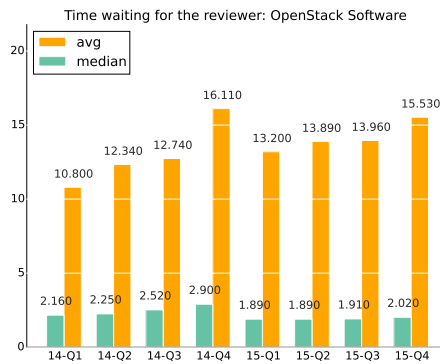
Period	Median	Mean
14-Q1	2.16	10.8
14-Q2	2.25	12.34
14-Q3	2.52	12.74
14-Q4	2.9	16.11
15-Q1	1.89	13.2
15-Q2	1.89	13.89
15-Q3	1.91	13.96
15-Q4	2.02	15.53

Time waiting for the submitter: OpenStack Software
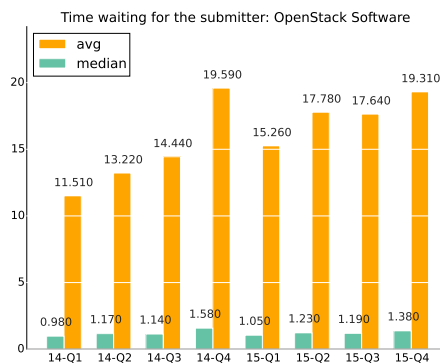
Period	Median	Mean
14-Q1	0.98	11.51
14-Q2	1.17	13.22
14-Q3	1.14	14.44
14-Q4	1.58	19.59
15-Q1	1.05	15.26
15-Q2	1.23	17.78
15-Q3	1.19	17.64
15-Q4	1.38	19.31

Appendix A

Metrics Definitions

Metrics measured in each OpenStack team:

- Commit: this is defined as the action(s) that performes a change in the source code. Bots, merges and other type of automatic activity is removed from the records. In addition, when aggregating several git repositories, this metric only counts unique revisions (unique hashes found in the git repositories). Finally, all branches are aggregated to the analysis and the time to author the time used for this analysis.

- Submitted changeset: a changeset is the process of peer reviewing source code changes. A commit is not merged to the master code of a given project till this is approved for at least one core reviewer of such project. A submitted changeset is defined as any changeset submitted to the Gerrit system. However, given the limitations of the current version of the tool, with at least 5,900 changesets detected as having an erroneous creation date, this metric counts the first patchset upload action.

- Merged and abandoned changsets: a merge is defined as the patchset that was finally submitted to the source code. An abandoned changeset is a potential merge that was finally dismissed by developers as being part of the source code. This status is found in the status of the final patchset. However, although a patchset can be merged or abandoned, this action can be reverted. If a patchset presents several of these changes in the same period of time, only one of them is counted (the very last one). On the other hand, if those changes take place in different periods of analysis, both status would be counted.

- Open and closed ticket: a ticket in Launchpad is counted as closed if the status of such ticket is defined as 'Fix Released'. The rest of the tickets are counted as opened tickets.

- Active Core Reviewer: a core reviewer has the possibility to use +2 or -2 actions when reviewing the code. However, if there are developers that for some period do not use those actions, those can not be measured as core reviewer. Thus, this metric provides information about 'active' core reviewers. This can be also defined as those developers that actively have used the +2 or -2 review action. This metric is also filtered by branch of activity, only using 'master'. This helps to detect actual core reviewers in each of the projects.

- Authors: a developer is defined as author if she is the owner of the patchset sent for reviewing and this is merged into the source code. As previously indicated, automatic commits such bot's are removed from this analysis.

- Efficiency closing issues: this metric is a derivation of the Backlog Management Index (BMI) that measures the number of closed tickets out of the opened tickets in a period of time. Values under 1.0 indicates that the number of closing issues is lower than the number of opened issues arriving. On the contrary, higher charts would indicate better maintenance effort by the community.

- Efficiency closing changesets: this metric is a derivation of the Backlog Management Index as it is named as Review efficiency index (REI). As similarly used in the BMI index, this metrics measures the number of closed changesets (merged or abandoned) out of the total number of new changesets.

- Time to Merge: this time consists of the time between the first upload of the first patchset (as defined as a submitted changeset) till the last patchset of the changeset is merged into the code and this is indicated in the comments side of the Gerrit tool. This metric is provided in number of days.

- Patchsets per changeset: this metric calculates the total number of iterations in a changeset till this is abandoned or merged.

- Time waiting for the reviewer or the submitter: a changeset is waiting for a reviewer action if a new patchset upload or a new changset arrives

to the system. On the other hand, a submitter action is required when a specific negative verification or reviewing action takes place (Verified -1/-2 or Code-Review -1/-2). In addition, when a Code-Review +2 action takes place, it is assumed that the changset is closing and no more times are registered either for the reviewer or the submitter. For this analysis, those patchsets flagged as work in progress are ignored.

Metrics measured in the general overview:

- Community structure, core, regular and casual developers: developers are ordered in descendant order by the number of commits authored for a given period. Core developers are defined as the list of developers that reach 80% of the total commits. Regular is the set of developers that are between that 80% and 95% of the commits. Casual developers are found in the rest of the 5%. Bots are ignored in this list of developers.

- Developer per month: average of developers per month ignoring bots.

- Emails sent: number of emails sent by people to the several mailing lists. Bots are not registered.

- People sending emails: number of people sending those emails ignoring bots.

- People initiating threads: a thread is defined as a list of emails that has the same root. There may exist threads of one email.

- Top threads: this list provides the longest threads in terms of number of emails that have a common root email.

- Questions, answers and comments in Askbot.

- People asking questions in Askbot: number of people sending a new question.

- Top visited questions.

- Top tags: each of the questions has a list of associated tags. The top tags are those with the highest number of repetitions aggregating all of the questions.

- Messages and people in IRC: this analysis ignores as a message those entries in the IRC channels that provide information about people entering or leaving the system.

Appendix B

Source Code and Data Sources

The data source used to provide the data of this analysis can be found at the GrimoireLib library. Specifically the openstack_report.py file[1].

With respect to the list of analyzed repositories per project, the following table lists all of them. There are three data sources: git activity (scm), tickets activity (its) and review activity (scr). This information is based on the information listed in the yaml organizational file[2] provided by the OpenStack Foundation.

Program	Data source	Repository
app-catalog	scm	git://git.openstack.org/openstack/app-catalog
app-catalog	scm	git://git.openstack.org/openstack/app-catalog-ui
app-catalog	scm	git://git.openstack.org/openstack/app-catalog-common
app-catalog	scr	review.openstack.org_openstack/app-catalog
app-catalog	scr	review.openstack.org_openstack/app-catalog-common
app-catalog	scr	review.openstack.org_openstack/app-catalog-ui
Astara	scm	git://git.openstack.org/openstack/astara-appliance
Astara	scm	git://git.openstack.org/openstack/astara-horizon
Astara	scm	git://git.openstack.org/openstack/astara
Astara	scm	git://git.openstack.org/openstack/astara-neutron
Astara	scr	review.openstack.org_openstack/astara-horizon

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[1]`https://github.com/VizGrimoire/GrimoireLib/blob/master/vizGrimoireJS/openstack_report.py`. Commit identified with the hash *b025bed1cdd842f275ea07367882d85506e9c263*

[2]`http://git.openstack.org/cgit/openstack/governance/tree/reference/projects.yaml`

Astara	scr	review.openstack.org_openstack/astara
Astara	scr	review.openstack.org_openstack/astara-neutron
Astara	scr	review.openstack.org_openstack/astara-appliance
barbican	its	https://bugs.launchpad.net/barbican
barbican	scm	git://git.openstack.org/openstack/kite
barbican	scm	git://git.openstack.org/openstack/python-kiteclient
barbican	scm	git://git.openstack.org/openstack/python-barbicanclient
barbican	scm	git://git.openstack.org/openstack/barbican
barbican	scm	git://git.openstack.org/openstack/castellan
barbican	scr	review.openstack.org_openstack/python-barbicanclient
barbican	scr	review.openstack.org_openstack/castellan
barbican	scr	review.openstack.org_openstack/kite
barbican	scr	review.openstack.org_openstack/barbican
barbican	scr	review.openstack.org_openstack/python-kiteclient
ceilometer	its	https://bugs.launchpad.net/python-ceilometerclient
ceilometer	its	https://bugs.launchpad.net/ceilometer
ceilometer	scm	https://github.com/openstack/ceilometer.git
ceilometer	scm	git://git.openstack.org/openstack/gnocchi
ceilometer	scm	git://git.openstack.org/openstack/aodh
ceilometer	scm	https://github.com/openstack/python-ceilometerclient.git
ceilometer	scm	git://git.openstack.org/openstack/ceilometermiddleware
ceilometer	scm	git://git.openstack.org/openstack/python-gnocchiclient
ceilometer	scr	review.openstack.org_openstack/aodh
ceilometer	scr	review.openstack.org_openstack/python-ceilometerclient
ceilometer	scr	review.openstack.org_openstack/python-gnocchiclient
ceilometer	scr	review.openstack.org_openstack/ceilometer
ceilometer	scr	review.openstack.org_openstack/ceilometermiddleware
ChefOpenStack	its	https://bugs.launchpad.net/openstack-chef
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-block-storage
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-data-processing
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-network
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-telemetry
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-compute
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-image

ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-ops-database
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-client
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-database
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-object-storage
ChefOpenStack	scm	git://git.openstack.org/openstack/openstack-chef-repo
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-bare-metal
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-dashboard
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-integration-test
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-orchestration
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-common
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-identity
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-ops-messaging
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-client
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-database
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-object-storage
ChefOpenStack	scr	review.openstack.org_openstack/openstack-chef-repo
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-dashboard
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-integration-test
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-orchestration
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-common
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-identity

ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-ops-messaging
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-bare-metal
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-data-processing
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-network
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-telemetry
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-compute
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-image
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-ops-database
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-block-storage
cinder	its	https://bugs.launchpad.net/cinder
cinder	its	https://bugs.launchpad.net/python-cinderclient
cinder	scm	https://github.com/openstack/python-cinderclient.git
cinder	scm	git://git.openstack.org/openstack/os-brick
cinder	scm	https://github.com/openstack/cinder.git
cinder	scr	review.openstack.org_openstack/python-cinderclient
cinder	scr	review.openstack.org_openstack/os-brick
cinder	scr	review.openstack.org_openstack/cinder
Cloudkitty	scm	git://git.openstack.org/openstack/cloudkitty
Cloudkitty	scm	git://git.openstack.org/openstack/python-cloudkittyclient
Cloudkitty	scm	git://git.openstack.org/openstack/cloudkitty-dashboard
Cloudkitty	scr	review.openstack.org_openstack/cloudkitty-dashboard
Cloudkitty	scr	review.openstack.org_openstack/cloudkitty
Cloudkitty	scr	review.openstack.org_openstack/python-cloudkittyclient
Common Libraries	its	https://bugs.launchpad.net/oslo.config
Common Libraries	its	https://bugs.launchpad.net/oslo.middleware
Common Libraries	its	https://bugs.launchpad.net/oslo.versionedobjects
Common Libraries	its	https://bugs.launchpad.net/stevedore
Common Libraries	its	https://bugs.launchpad.net/oslo.cache
Common Libraries	its	https://bugs.launchpad.net/oslo.i18n
Common Libraries	its	https://bugs.launchpad.net/pbr
Common Libraries	its	https://bugs.launchpad.net/oslo.serialization
Common Libraries	its	https://bugs.launchpad.net/oslotest

Common Libraries	its	https://bugs.launchpad.net/oslo.context
Common Libraries	its	https://bugs.launchpad.net/hacking
Common Libraries	its	https://bugs.launchpad.net/oslo.policy
Common Libraries	its	https://bugs.launchpad.net/oslo.wmware
Common Libraries	its	https://bugs.launchpad.net/tooz
Common Libraries	its	https://bugs.launchpad.net/oslo.concurrency
Common Libraries	its	https://bugs.launchpad.net/oslo.log
Common Libraries	its	https://bugs.launchpad.net/taskflow
Common Libraries	its	https://bugs.launchpad.net/oslo.utils
Common Libraries	its	https://bugs.launchpad.net/pylockfile
Common Libraries	its	https://bugs.launchpad.net/oslo.db
Common Libraries	its	https://bugs.launchpad.net/oslo.messaging
Common Libraries	its	https://bugs.launchpad.net/oslo.rootwrap
Common Libraries	its	https://bugs.launchpad.net/oslosphinx
Common Libraries	scm	git://git.openstack.org/openstack/oslo.policy
Common Libraries	scm	git://git.openstack.org/openstack/mox3
Common Libraries	scm	git://git.openstack.org/openstack/oslo.vmware
Common Libraries	scm	git://git.openstack.org/openstack/devstack-plugin-amqp1
Common Libraries	scm	git://git.openstack.org/openstack-dev/oslo-cookiecutter
Common Libraries	scm	git://git.openstack.org/openstack/stevedore
Common Libraries	scm	https://github.com/openstack/oslo.version.git
Common Libraries	scm	git://git.openstack.org/openstack/oslo.log
Common Libraries	scm	git://git.openstack.org/openstack/oslo.db
Common Libraries	scm	git://git.openstack.org/openstack/futurist
Common Libraries	scm	git://git.openstack.org/openstack/oslo.utils
Common Libraries	scm	git://git.openstack.org/openstack/oslo.context
Common Libraries	scm	git://git.openstack.org/openstack/oslosphinx
Common Libraries	scm	https://github.com/openstack/oslo.config.git
Common Libraries	scm	git://git.openstack.org/openstack/oslo.cache
Common Libraries	scm	git://git.openstack.org/openstack/oslo.rootwrap
Common Libraries	scm	git://git.openstack.org/openstack/oslo.i18n
Common Libraries	scm	git://git.openstack.org/openstack/oslotest
Common Libraries	scm	git://git.openstack.org/openstack/devstack-plugin-zmq
Common Libraries	scm	git://git.openstack.org/openstack/oslo.rootwrap
Common Libraries	scm	git://git.openstack.org/openstack/oslo.privsep
Common Libraries	scm	git://git.openstack.org/openstack/taskflow
Common Libraries	scm	git://git.openstack.org/openstack/oslo.middleware
Common Libraries	scm	git://git.openstack.org/openstack/automaton
Common Libraries	scm	git://git.openstack.org/openstack/oslo.versionedobjects
Common Libraries	scm	git://git.openstack.org/openstack/oslo.concurrency

Common Libraries	scm	git://git.openstack.org/openstack/pycadf
Common Libraries	scm	https://github.com/openstack/oslo.messaging.git
Common Libraries	scm	git://git.openstack.org/openstack/oslo.config
Common Libraries	scm	git://git.openstack.org/openstack/oslo.service
Common Libraries	scm	git://git.openstack.org/openstack/oslo.serialization
Common Libraries	scm	git://git.openstack.org/openstack/tooz
Common Libraries	scm	git://git.openstack.org/openstack/pylockfile
Common Libraries	scm	git://git.openstack.org/openstack/oslo.service
Common Libraries	scm	git://git.openstack.org/openstack/oslo.vmware
Common Libraries	scm	https://github.com/openstack/oslo-incubator.git
Common Libraries	scm	git://git.openstack.org/openstack/debtcollector
Common Libraries	scr	review.openstack.org_openstack/stevedore
Common Libraries	scr	review.openstack.org_openstack/oslo.i18n
Common Libraries	scr	review.openstack.org_openstack/tooz
Common Libraries	scr	review.openstack.org_openstack/oslo.log
Common Libraries	scr	review.openstack.org_openstack/oslo.service
Common Libraries	scr	review.openstack.org_openstack/oslo.serialization
Common Libraries	scr	review.openstack.org_openstack/oslotest
Common Libraries	scr	review.openstack.org_openstack/futurist
Common Libraries	scr	review.openstack.org_openstack/debtcollector
Common Libraries	scr	review.openstack.org_openstack/devstack-plugin-amqp1
Common Libraries	scr	review.openstack.org_openstack/oslo.policy
Common Libraries	scr	review.openstack.org_openstack/oslo.vmware
Common Libraries	scr	review.openstack.org_openstack/oslo-incubator
Common Libraries	scr	review.openstack.org_openstack/taskflow
Common Libraries	scr	review.openstack.org_openstack/mox3
Common Libraries	scr	review.openstack.org_openstack/oslo.context
Common Libraries	scr	review.openstack.org_openstack/oslo.messaging
Common Libraries	scr	review.openstack.org_openstack/oslo.utils
Common Libraries	scr	review.openstack.org_openstack-dev/hacking
Common Libraries	scr	review.openstack.org_openstack/pylockfile
Common Libraries	scr	review.openstack.org_openstack/oslo.db
Common Libraries	scr	review.openstack.org_openstack/oslo.service
Common Libraries	scr	review.openstack.org_openstack/oslo.cache
Common Libraries	scr	review.openstack.org_openstack/devstack-plugin-zmq
Common Libraries	scr	review.openstack.org_openstack/oslo.rootwrap
Common Libraries	scr	review.openstack.org_openstack/oslosphinx
Common Libraries	scr	review.openstack.org_openstack/oslo.config
Common Libraries	scr	review.openstack.org_openstack/automaton
Common Libraries	scr	review.openstack.org_openstack/oslo.concurrency

Common Libraries	scr	review.openstack.org_openstack/oslo.middleware
Common Libraries	scr	review.openstack.org_openstack/oslo.privsep
Common Libraries	scr	review.openstack.org_openstack/oslo.versionedobjects
Common Libraries	scr	review.openstack.org_openstack-dev/pbr
Congress	scm	git://git.openstack.org/openstack/congress
Congress	scm	git://git.openstack.org/openstack/python-congressclient
Congress	scr	review.openstack.org_openstack/congress
Congress	scr	review.openstack.org_openstack/python-congressclient
Cue	scm	git://git.openstack.org/openstack/cue
Cue	scm	git://git.openstack.org/openstack/python-cueclient
Cue	scm	git://git.openstack.org/openstack/cue-dashboard
Cue	scr	review.openstack.org_openstack/cue-dashboard
Cue	scr	review.openstack.org_openstack/cue
Cue	scr	review.openstack.org_openstack/python-cueclient
Deployment	its	https://bugs.launchpad.net/os-apply-config
Deployment	its	https://bugs.launchpad.net/os-net-config
Deployment	its	https://bugs.launchpad.net/python-tuskarclient
Deployment	its	https://bugs.launchpad.net/os-cloud-config
Deployment	its	https://bugs.launchpad.net/diskimage-builder
Deployment	its	https://bugs.launchpad.net/os-refresh-config
Deployment	its	https://bugs.launchpad.net/tuskar
Deployment	its	https://bugs.launchpad.net/os-collect-config
Deployment	scm	git://git.openstack.org/openstack/instack
Deployment	scm	git://git.openstack.org/openstack/os-collect-config
Deployment	scm	https://github.com/openstack/tripleo-image-elements.git
Deployment	scm	git://git.openstack.org/openstack/diskimage-builder
Deployment	scm	git://git.openstack.org/openstack/tripleo-common
Deployment	scm	git://git.openstack.org/openstack/os-apply-config
Deployment	scm	git://git.openstack.org/openstack/tuskar
Deployment	scm	git://git.openstack.org/openstack/tripleo-docs
Deployment	scm	git://git.openstack.org/openstack/tripleo-puppet-elements
Deployment	scm	git://git.openstack.org/openstack/instack-undercloud
Deployment	scm	git://git.openstack.org/openstack/os-refresh-config
Deployment	scm	https://github.com/openstack/tripleo-incubator.git
Deployment	scm	git://git.openstack.org/openstack/dib-utils
Deployment	scm	git://git.openstack.org/openstack/os-cloud-config
Deployment	scm	https://github.com/openstack/tripleo-heat-templates.git
Deployment	scm	git://git.openstack.org/openstack/python-tuskarclient
Deployment	scm	git://git.openstack.org/openstack/python-tripleoclient
Deployment	scm	git://git.openstack.org/openstack/os-net-config

Deployment	scr	review.openstack.org_openstack/instack-undercloud
Deployment	scr	review.openstack.org_openstack/os-collect-config
Deployment	scr	review.openstack.org_openstack/tripleo-incubator
Deployment	scr	review.openstack.org_openstack/os-apply-config
Deployment	scr	review.openstack.org_openstack/tripleo-heat-templates
Deployment	scr	review.openstack.org_openstack/os-net-config
Deployment	scr	review.openstack.org_openstack/os-refresh-config
Deployment	scr	review.openstack.org_openstack/tuskar
Deployment	scr	review.openstack.org_openstack/python-tripleoclient
Deployment	scr	review.openstack.org_openstack/tripleo-common
Deployment	scr	review.openstack.org_openstack/instack
Deployment	scr	review.openstack.org_openstack/os-cloud-config
Deployment	scr	review.openstack.org_openstack/tripleo-image-elements
Deployment	scr	review.openstack.org_openstack/dib-utils
Deployment	scr	review.openstack.org_openstack/diskimage-builder
Deployment	scr	review.openstack.org_openstack/python-tuskarclient
Deployment	scr	review.openstack.org_openstack/tripleo-puppet-elements
Deployment	scr	review.openstack.org_openstack/tripleo-docs
designate	its	https://bugs.launchpad.net/python-designateclient
designate	its	https://bugs.launchpad.net/designate
designate	scm	git://git.openstack.org/openstack/designate
designate	scm	git://git.openstack.org/openstack/python-designateclient
designate	scm	git://git.openstack.org/openstack/designate-dashboard
designate	scr	review.openstack.org_openstack/designate-dashboard
designate	scr	review.openstack.org_stackforge/python-designateclient
designate	scr	review.openstack.org_openstack/designate
Documentation	its	https://bugs.launchpad.net/openstack-api-site
Documentation	its	https://bugs.launchpad.net/openstack-manuals
Documentation	scm	https://github.com/openstack/identity-api.git
Documentation	scm	https://github.com/openstack/volume-api.git
Documentation	scm	git://git.openstack.org/openstack/openstack-doc-tools
Documentation	scm	git://git.openstack.org/openstack/training-labs
Documentation	scm	https://github.com/openstack/api-site.git
Documentation	scm	https://github.com/openstack/object-api.git
Documentation	scm	git://git.openstack.org/openstack/openstackdocstheme
Documentation	scm	https://github.com/openstack/image-api.git
Documentation	scm	https://github.com/openstack/compute-api.git
Documentation	scm	https://github.com/openstack/openstack-manuals.git
Documentation	scm	git://git.openstack.org/openstack/ha-guide
Documentation	scm	git://git.openstack.org/openstack/faafo

Documentation	scm	git://git.openstack.org/openstack/operations-guide
Documentation	scm	https://github.com/openstack/netconn-api.git
Documentation	scm	git://git.openstack.org/openstack/training-guides
Documentation	scm	git://git.openstack.org/openstack/security-doc
Documentation	scr	review.openstack.org_openstack/netconn-api
Documentation	scr	review.openstack.org_openstack/identity-api
Documentation	scr	review.openstack.org_openstack/operations-guide
Documentation	scr	review.openstack.org_openstack/ha-guide
Documentation	scr	review.openstack.org_openstack/api-site
Documentation	scr	review.openstack.org_openstack/object-api
Documentation	scr	review.openstack.org_openstack/training-guides
Documentation	scr	review.openstack.org_openstack/openstack-doc-tools
Documentation	scr	review.openstack.org_openstack/security-doc
Documentation	scr	review.openstack.org_openstack/faafo
Documentation	scr	review.openstack.org_openstack/image-api
Documentation	scr	review.openstack.org_openstack/volume-api
Documentation	scr	review.openstack.org_openstack/compute-api
Documentation	scr	review.openstack.org_openstack/openstack-manuals
Documentation	scr	review.openstack.org_openstack/openstackdocstheme
Documentation	scr	review.openstack.org_openstack/training-labs
Freezer	scm	git://git.openstack.org/openstack/freezer-web-ui
Freezer	scm	git://git.openstack.org/openstack/freezer
Freezer	scm	git://git.openstack.org/openstack/freezer-api
Freezer	scr	review.openstack.org_openstack/freezer-api
Freezer	scr	review.openstack.org_openstack/freezer-web-ui
Freezer	scr	review.openstack.org_openstack/freezer
Fuel	scm	git://git.openstack.org/openstack/fuel-main
Fuel	scm	git://git.openstack.org/openstack/fuel-qa
Fuel	scm	git://git.openstack.org/openstack/fuel-dev-tools
Fuel	scm	git://git.openstack.org/openstack/python-fuelclient
Fuel	scm	git://git.openstack.org/openstack/fuel
Fuel	scm	git://git.openstack.org/openstack/fuel-nailgun-agent
Fuel	scm	git://git.openstack.org/openstack/network-checker
Fuel	scm	git://git.openstack.org/openstack/fuel-plugins
Fuel	scm	git://git.openstack.org/openstack/fuel-menu
Fuel	scm	git://git.openstack.org/openstack/fuel-upgrade
Fuel	scm	git://git.openstack.org/openstack/fuel-devops
Fuel	scm	git://git.openstack.org/openstack/fuel
Fuel	scm	git://git.openstack.org/openstack/fuel-ostf
Fuel	scm	git://git.openstack.org/openstack/shotgun

Fuel	scm	git://git.openstack.org/openstack/fuel-stats
Fuel	scm	git://git.openstack.org/openstack/fuel-agent
Fuel	scm	git://git.openstack.org/openstack/fuel-mirror
Fuel	scm	git://git.openstack.org/openstack/fuel-web
Fuel	scm	git://git.openstack.org/openstack/fuel-docs
Fuel	scr	review.openstack.org_openstack/network-checker
Fuel	scr	review.openstack.org_openstack/fuel-plugins
Fuel	scr	review.openstack.org_openstack/fuel-menu
Fuel	scr	review.openstack.org_openstack/fuel-upgrade
Fuel	scr	review.openstack.org_openstack/fuel-devops
Fuel	scr	review.openstack.org_openstack/fuel
Fuel	scr	review.openstack.org_openstack/fuel-ostf
Fuel	scr	review.openstack.org_openstack/shotgun
Fuel	scr	review.openstack.org_openstack/fuel-stats
Fuel	scr	review.openstack.org_openstack/fuel-agent
Fuel	scr	review.openstack.org_openstack/fuel-mirror
Fuel	scr	review.openstack.org_openstack/fuel-web
Fuel	scr	review.openstack.org_openstack/fuel-docs
Fuel	scr	review.openstack.org_openstack/fuel-main
Fuel	scr	review.openstack.org_openstack/fuel-qa
Fuel	scr	review.openstack.org_openstack/fuel-dev-tools
Fuel	scr	review.openstack.org_openstack/python-fuelclient
Fuel	scr	review.openstack.org_openstack/fuel
Fuel	scr	review.openstack.org_openstack/fuel-nailgun-agent
glance	its	https://bugs.launchpad.net/python-glanceclient
glance	its	https://bugs.launchpad.net/glance
glance	scm	https://github.com/openstack/python-glanceclient.git
glance	scm	git://git.openstack.org/openstack/glance_store
glance	scm	https://github.com/openstack/glance.git
glance	scr	review.openstack.org_openstack/python-glanceclient
glance	scr	review.openstack.org_openstack/glance_store
glance	scr	review.openstack.org_openstack/glance
heat	its	https://bugs.launchpad.net/heat-cfntools
heat	its	https://bugs.launchpad.net/heat
heat	its	https://bugs.launchpad.net/python-heatclient
heat	its	https://bugs.launchpad.net/heat-templates
heat	scm	git://git.openstack.org/openstack/heat-cfntools
heat	scm	git://git.openstack.org/openstack/tosca-parser
heat	scm	git://git.openstack.org/openstack/heat-templates
heat	scm	https://github.com/openstack/python-heatclient.git

heat	scm	https://github.com/openstack/heat.git
heat	scm	git://git.openstack.org/openstack/heat-translator
heat	scm	git://git.openstack.org/openstack-dev/heat-cfnclient
heat	scr	review.openstack.org_openstack/heat
heat	scr	review.openstack.org_openstack/heat-cfntools
heat	scr	review.openstack.org_openstack/heat-translator
heat	scr	review.openstack.org_openstack/tosca-parser
heat	scr	review.openstack.org_openstack/heat-templates
heat	scr	review.openstack.org_openstack/python-heatclient
heat	scr	review.openstack.org_openstack/heat-templates
horizon	its	https://bugs.launchpad.net/tuskar-ui
horizon	its	https://bugs.launchpad.net/horizon
horizon	its	https://bugs.launchpad.net/django-openstack-auth
horizon	scm	git://git.openstack.org/openstack/xstatic-bootswatch
horizon	scm	git://git.openstack.org/openstack/xstatic-jquery-migrate
horizon	scm	git://git.openstack.org/openstack/xstatic-mdi
horizon	scm	git://git.openstack.org/openstack/tuskar-ui
horizon	scm	git://git.openstack.org/openstack/xstatic-angular
horizon	scm	git://git.openstack.org/openstack/xstatic-bootstrap-datepicker
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horizon	scm	git://git.openstack.org/openstack/xstatic-angular-smart-table

horizon	scm	git://git.openstack.org/openstack/xstatic-hogan
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horizon	scm	git://git.openstack.org/openstack/xstatic-roboto-fontface
horizon	scm	https://github.com/openstack/horizon.git
horizon	scm	git://git.openstack.org/openstack/manila-ui
horizon	scm	git://git.openstack.org/openstack/xstatic-angular-gettext
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horizon	scr	review.openstack.org_openstack/xstatic-angular-lrdragndrop
I18n	scm	git://git.openstack.org/openstack/i18n
I18n	scr	review.openstack.org_openstack/i18n
Infrastructure	its	https://bugs.launchpad.net/openstack-ci
Infrastructure	scm	git://git.openstack.org/openstack-infra/infra-manual

Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-openafs
Infrastructure	scm	git://git.openstack.org/openstack-infra/tripleo-ci
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-etherpad_lite
Infrastructure	scm	https://github.com/openstack-infra/gerritbot.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/ansible-puppet
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-planet
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Infrastructure	scm	https://github.com/openstack-infra/nose-html-output.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/bugdaystats
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-reviewday
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Infrastructure	scm	https://github.com/openstack-infra/zuul.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/publications
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Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-elastic_recheck
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Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-packagekit
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-gerritbot
Infrastructure	scm	https://github.com/openstack-infra/jeepyb.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-zuul
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-redis

Infrastructure	scm	git://git.openstack.org/openstack-infra/project-config
Infrastructure	scm	https://github.com/openstack-infra/statusbot.git
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Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-lodgeit
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Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-dashboard
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Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-exim
Infrastructure	scm	https://github.com/openstack-infra/gerritlib.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/bindep
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-project_config
Infrastructure	scm	https://github.com/openstack-infra/releasestatus.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-phabricator
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-simpleproxy
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Infrastructure	scm	git://git.openstack.org/openstack-infra/odsreg
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-unattended_upgrades
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-openstack-health
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Infrastructure	scm	git://git.openstack.org/openstack-infra/zuul-packaging
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Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-pgsql_backup
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Infrastructure	scm	https://github.com/openstack-infra/jenkins-job-builder.git
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Infrastructure	scm	https://github.com/openstack-infra/zmq-event-publisher.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-apps_site
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Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-accessbot
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Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-vcsrepo
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Infrastructure	scm	git://git.openstack.org/openstack-infra/lodgeit
Infrastructure	scm	git://git.openstack.org/openstack-infra/reviewstats
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Infrastructure	scr	review.openstack.org_openstack-infra/tripleo-ci
Infrastructure	scr	review.openstack.org_openstack-infra/irc-meetings
Infrastructure	scr	review.openstack.org_openstack-infra/ansible-puppet
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ironic	its	https://bugs.launchpad.net/ironic
ironic	scm	git://git.openstack.org/openstack/ironic-python-agent
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neutron	scm	git://git.openstack.org/openstack/networking-hpe
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neutron	scm	git://git.openstack.org/openstack/neutron-fwaas
neutron	scm	git://git.openstack.org/openstack/networking-infoblox
neutron	scm	git://git.openstack.org/openstack/networking-powervm
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neutron	scr	review.openstack.org_openstack/networking-ovn
nova	its	https://bugs.launchpad.net/python-novaclient
nova	its	https://bugs.launchpad.net/nova
nova	scm	https://github.com/openstack/python-novaclient.git
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OpenStackAnsible	its	https://bugs.launchpad.net/openstack-ansible
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-py_from_git
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-security
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-galera_server
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-pip_install
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-repo_server
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OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-memcached_server
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-rsyslog_client
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-specs

OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-lxc_container_create
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-pip_lock_down
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible-rsyslog_server
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OpenStackClient	its	https://bugs.launchpad.net/os-client-config
OpenStackClient	its	https://bugs.launchpad.net/python-openstackclient
OpenStackClient	its	https://bugs.launchpad.net/python-cliff
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PuppetOpenStack	its	https://bugs.launchpad.net/puppet-gnocchi

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PuppetOpenStack	its	https://bugs.launchpad.net/puppet-sahara
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-designate
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-ironic
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-nova
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-tuskar
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-ceilometer
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-heat
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PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-openstack-cookiecutter
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-barbican
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-tempest
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-zaqar
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-cinder
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-horizon
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-nova
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-sahara
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-openstack_spec_helper
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-tuskar
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-gnocchi
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-manila
PuppetOpenStack	scm	git://git.openstack.org/openstack/reno
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-openstack-specs

PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-magnum
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-tripleo
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-designate
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-ironic
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-aodh
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-openstacklib
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-swift
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-vitrage
PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-vswitch
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-glance
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-vitrage
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-keystone
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-openstack-cookiecutter
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-tempest
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-aodh
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-zaqar
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-openstack-release-tools
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-cinder
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-horizon
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-nova
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-sahara
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-tuskar
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-barbican
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PuppetOpenStack	scr	review.openstack.org_openstack/puppet-manila
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PuppetOpenStack	scr	review.openstack.org_openstack/puppet-tripleo
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PuppetOpenStack	scr	review.openstack.org_openstack/puppet-designate
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PuppetOpenStack	scr	review.openstack.org_openstack/puppet-openstacklib
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-swift
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-vswitch
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-magnum
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-ceilometer

PuppetOpenStack	scr	review.openstack.org_openstack/puppet-heat
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-neutron
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-openstack_extras
PuppetOpenStack	scr	review.openstack.org_openstack/puppet-trove
PuppetOpenStack	scr	review.openstack.org_openstack/reno
Quality Assurance	its	https://bugs.launchpad.net/tempest
Quality Assurance	its	https://bugs.launchpad.net/devstack
Quality Assurance	scm	git://git.openstack.org/openstack-dev/devstack-vagrant
Quality Assurance	scm	https://github.com/openstack/tempest.git
Quality Assurance	scm	git://git.openstack.org/openstack-dev/bashate
Quality Assurance	scm	git://git.openstack.org/openstack/qa-specs
Quality Assurance	scm	git://git.openstack.org/openstack/devstack-plugin-pika
Quality Assurance	scm	git://git.openstack.org/openstack/os-testr
Quality Assurance	scm	git://git.openstack.org/openstack/eslint-config-openstack
Quality Assurance	scm	git://git.openstack.org/openstack/tempest-lib
Quality Assurance	scm	git://git.openstack.org/openstack-dev/devstack-plugin-cookiecutter
Quality Assurance	scm	git://git.openstack.org/openstack/stackviz
Quality Assurance	scm	git://git.openstack.org/openstack/os-performance-tools
Quality Assurance	scm	git://git.openstack.org/openstack-dev/grenade
Quality Assurance	scm	git://git.openstack.org/openstack-dev/devstack
Quality Assurance	scm	git://git.openstack.org/openstack/openstack-health
Quality Assurance	scm	git://git.openstack.org/openstack/devstack-plugin-kafka
Quality Assurance	scr	review.openstack.org_openstack/os-performance-tools
Quality Assurance	scr	review.openstack.org_openstack/tempest
Quality Assurance	scr	review.openstack.org_openstack/tempest-lib
Quality Assurance	scr	review.openstack.org_openstack-dev/bashate
Quality Assurance	scr	review.openstack.org_openstack/qa-specs
Quality Assurance	scr	review.openstack.org_openstack/devstack-plugin-kafka
Quality Assurance	scr	review.openstack.org_openstack-dev/devstack
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Quality Assurance	scr	review.openstack.org_openstack-dev/devstack-plugin-cookiecutter
Quality Assurance	scr	review.openstack.org_openstack/stackviz
Quality Assurance	scr	review.openstack.org_openstack/devstack-plugin-pika
Quality Assurance	scr	review.openstack.org_openstack-dev/grenade
Quality Assurance	scr	review.openstack.org_openstack/openstack-health
Quality Assurance	scr	review.openstack.org_openstack/os-testr
Quality Assurance	scr	review.openstack.org_openstack-dev/devstack-vagrant
Rally	its	https://bugs.launchpad.net/rally

Rally	scm	git://git.openstack.org/openstack/performance-docs
Rally	scm	git://git.openstack.org/openstack/rally
Rally	scr	review.openstack.org_openstack/performance-docs
Rally	scr	review.openstack.org_openstack/rally
Refstack	scm	git://git.openstack.org/openstack/refstack
Refstack	scm	git://git.openstack.org/openstack/refstack-client
Refstack	scr	review.openstack.org_openstack/refstack
Refstack	scr	review.openstack.org_openstack/refstack-client
Release cycle management	scm	git://git.openstack.org/openstack-infra/release-tools
Release cycle management	scm	git://git.openstack.org/openstack/releases
Release cycle management	scm	git://git.openstack.org/openstack/requirements
Release cycle management	scm	git://git.openstack.org/openstack-dev/specs-cookiecutter
Release cycle management	scr	review.openstack.org_openstack/releases
Release cycle management	scr	review.openstack.org_openstack-dev/specs-cookiecutter
Release cycle management	scr	review.openstack.org_openstack/requirements
sahara	its	https://bugs.launchpad.net/sahara
sahara	its	https://bugs.launchpad.net/python-saharaclient
sahara	scm	git://git.openstack.org/openstack/sahara-image-elements
sahara	scm	git://git.openstack.org/openstack/sahara
sahara	scm	git://git.openstack.org/openstack/sahara-dashboard
sahara	scm	git://git.openstack.org/openstack/python-saharaclient
sahara	scm	git://git.openstack.org/openstack/sahara-extra
sahara	scm	git://git.openstack.org/openstack/sahara-dashboard
sahara	scr	review.openstack.org_openstack/sahara-image-elements
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sahara	scr	review.openstack.org_openstack/sahara-extra
Searchlight	scm	git://git.openstack.org/openstack/python-searchlightclient
Searchlight	scm	git://git.openstack.org/openstack/searchlight
Searchlight	scr	review.openstack.org_openstack/searchlight
Searchlight	scr	review.openstack.org_openstack/python-searchlightclient

Security	scm	git://git.openstack.org/stackforge/bandit
Security	scm	git://git.openstack.org/openstack/security-specs
Security	scm	git://git.openstack.org/openstack/ossa
Security	scm	git://git.openstack.org/stackforge/anchor
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Security	scr	review.openstack.org_openstack/security-doc
Security	scr	review.openstack.org_stackforge/anchor
Security	scr	review.openstack.org_openstack/security-specs
Senlin	scm	git://git.openstack.org/openstack/senlin-dashboard
Senlin	scm	git://git.openstack.org/openstack/senlin
Senlin	scm	git://git.openstack.org/openstack/python-senlinclient
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Solum	scr	review.openstack.org_openstack/solum-dashboard
Solum	scr	review.openstack.org_openstack/python-solumclient
Solum	scr	review.openstack.org_openstack/solum-infra-guestagent
swift	its	https://bugs.launchpad.net/python-swiftclient
swift	its	https://bugs.launchpad.net/swift
swift	its	https://bugs.launchpad.net/swift-bench
swift	scm	https://github.com/openstack/python-swiftclient.git
swift	scm	https://github.com/openstack/swift.git
swift	scm	git://git.openstack.org/openstack/swift-bench
swift	scr	review.openstack.org_openstack/python-swiftclient
swift	scr	review.openstack.org_openstack/swift
trove	its	https://bugs.launchpad.net/trove
trove	scm	git://git.openstack.org/openstack/trove-integration
trove	scm	git://git.openstack.org/openstack/trove-dashboard
trove	scm	https://github.com/openstack/python-troveclient.git
trove	scm	https://github.com/openstack/trove.git
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trove	scr	review.openstack.org_openstack/python-troveclient

trove	scr	review.openstack.org_openstack/trove
Winstackers	scm	git://git.openstack.org/openstack/os-win
Winstackers	scr	review.openstack.org_openstack/os-win
zaqar	its	https://bugs.launchpad.net/zaqar
zaqar	its	https://bugs.launchpad.net/python-zaqarclient
zaqar	scm	git://git.openstack.org/openstack/python-zaqarclient
zaqar	scm	git://git.openstack.org/openstack/zaqar-ui
zaqar	scm	git://git.openstack.org/openstack/zaqar
zaqar	scr	review.openstack.org_openstack/zaqar
zaqar	scr	review.openstack.org_openstack/zaqar-ui
zaqar	scr	review.openstack.org_openstack/python-zaqarclient