OpenStack Community Activity Report
July-September, 2015
Report sponsored by the OpenStack Foundation

Bitergia

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Bitergia

Executive Summary

The July-October 2015 summary of OpenStack Community Activity Report[1]

Key findings:

Git activity keeps stable

With an increase of activity close to 0%, the code activity seems to be similar to the previous year of activity. However, this does not imply a similar activity in Gerrit. This data source shows an increase of 25% if compared to the previous year. This indicates an increase in terms of reviewing activities, that is translated into a similar quantity of changes to the source code in the git repositories.

Increases in the time to review

Although the trend shows a constant decrease in the time to merge for the whole set of OpenStack Software, this has slightly increased in this last quarter. A more in depth analysis shows that those increases are found in projects such as Nova, Horizon, Neutron, Barbican or Sahara. On the other hand projects such as Keystone, Glance, Ceilometer or Swift shows a clear decrease in the time to merge patchsets. Finally, Infrastucture, Heat, Cinder or Documentation show a stable time to merge process.

Higher increases in terms of review activity than in changes to the source code may indicate that for similar pieces of code, a higher effort in terms of patchsets, human resources and time are needed.

IRC activity keeps increasing

Due to unknown issues, the total logs analyzed in the last two previous quarters indicated a huge drop of activity. However, last analysis on this data source shows activity in line with previous quarters. Although this is still an unknown issue, the IRC activity has recovered expected activity.

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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 third 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	71065 commits	0%
Tickets	16313 closed tickets	34%
Mailing Lists	40376 sent emails	15%
Gerrit	74292 submitted reviews	25%
Askbot	4108 posted questions	1943%
IRC	1948984 messages	1%

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

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

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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

Askbot activity. However, due to issues scrapping the Askbot API, numbers during 2014 show highly different values. Thus, this specific number should not be taken into account. On the other hand, while commit activity keeps stable, with an increase of close to %, the general review activity has increased 25%. This may indicate a higher effort by the community in terms of review, but with a similar outcome in terms of source code.
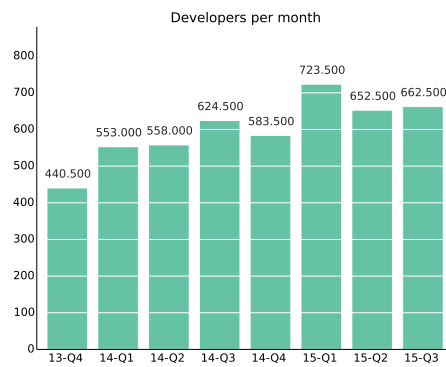
Period	Authors per month
13-Q4	440.5
14-Q1	553.0
14-Q2	558.0
14-Q3	624.5
14-Q4	583.5
15-Q1	723.5
15-Q2	652.5
15-Q3	662.5

Developers per month

In this third quarter of 2015 the mean number of developers active per month has reached a total of 662. It is observed an increase if compared to the previous quarter, but not as high as during the first quarter of 2015.

The total number of contributors divided into three sets (core, regular and casual[3]) follows a similar patter. This mid term release cycle shows a decrease if compared to previous quarter. And this also decreases if compared to the previous closing cycle (2015-Q1).

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[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.
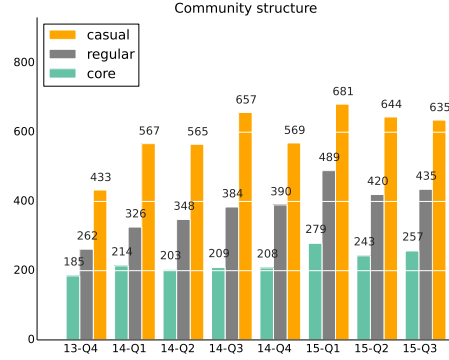
Community structure

Figure 1.1: Evolution of the last 8 quarters of the core, regular and casual developers (Git activity)

Period	Core	Regular	Occasional
13-Q4	185	262	433
14-Q1	214	326	567
14-Q2	203	348	565
14-Q3	209	384	657
14-Q4	208	390	569
15-Q1	279	489	681
15-Q2	243	420	644
15-Q3	257	435	635

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
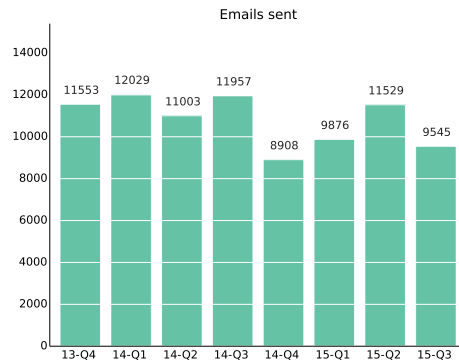
Period	Emails
13-Q4	11553
14-Q1	12029
14-Q2	11003
14-Q3	11957
14-Q4	8908
15-Q1	9876
15-Q2	11529
15-Q3	9545

People sending emails

Period	People
13-Q4	1261
14-Q1	1333
14-Q2	1389
14-Q3	1381
14-Q4	1237
15-Q1	1310
15-Q2	1336
15-Q3	1254

People initiating threads
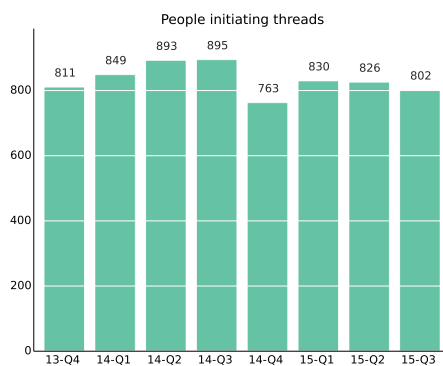
Period	People
13-Q4	811
14-Q1	849
14-Q2	893
14-Q3	895
14-Q4	763
15-Q1	830
15-Q2	826
15-Q3	802

Initial Author and Date	Subject	Number Messages
Tristan Cacqueray 2015-09-17	[openstack-dev] [all][elections] PTL nomination period is now over	55
Monty Taylor 2015-09-15	[openstack-dev] [nova][neutron][devstack] New proposed 'default' network model	45
Tamara.Johnston 2015-09-02	[OpenStack Foundation] [Diversity] re: Diversity Workgroup APAC 2015-08-27	41
Alexis Lee 2015-09-01	[OpenStack Foundation] [Diversity] re: Diversity Workgroup APAC 2015-08-27	38
Tang Chen 2015-07-08	[openstack-dev] [CI] How to set a proxy for zuul.	36
Matt Riedemann 2015-09-23	[openstack-dev] [nova][cinder] how to handle AZ bug 1496235?	33
Ihar Hrachyshka 2015-09-25	[openstack-dev] [all] -1 due to line length violation in commit messages	33
Banashankar KV 2015-09-21	[openstack-dev] [neutron][lbaas] - Heat support for LbaasV2	32
Kyle Mestery 2015-08-12	[openstack-dev] [neutron] I am pleased to propose two new Neutron API/DB/RPC core reviewers!	32
melanie witt 2015-09-24	[openstack-dev] [glance][nova] how to upgrade from v1 to v2?	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.
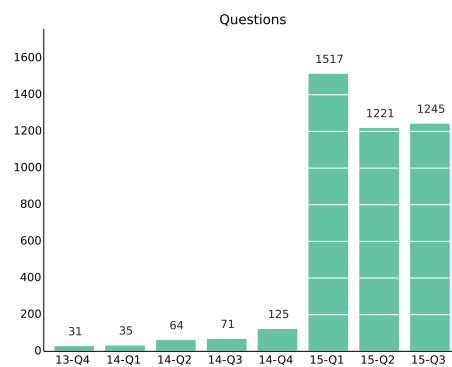
Questions

Period	Questions
13-Q4	31
14-Q1	35
14-Q2	64
14-Q3	71
14-Q4	125
15-Q1	1517
15-Q2	1221
15-Q3	1245
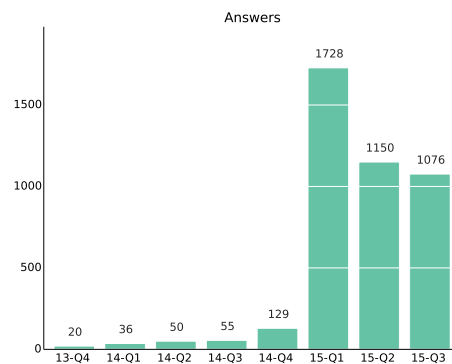
Answers

Period	Answers
13-Q4	20
14-Q1	36
14-Q2	50
14-Q3	55
14-Q4	129
15-Q1	1728
15-Q2	1150
15-Q3	1076

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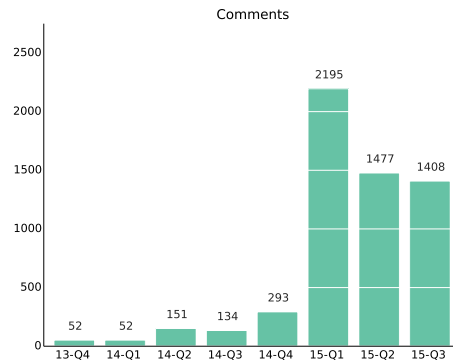
Comments

Period	Comments
13-Q4	52
14-Q1	52
14-Q2	151
14-Q3	134
14-Q4	293
15-Q1	2195
15-Q2	1477
15-Q3	1408

People asking Questions
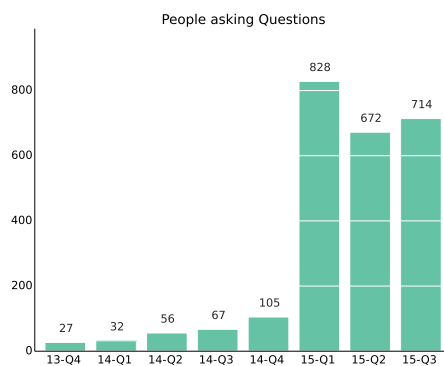
Period	People asking
13-Q4	27
14-Q1	32
14-Q2	56
14-Q3	67
14-Q4	105
15-Q1	828
15-Q2	672
15-Q3	714

- Top visited questions.

Question subject	Visits
how openstack comunicates with hyper v+	1350
error no valid host was found+	1094
rdo error php56w common conflicts with+	636
how to change keystone endpoint urls+	627
glance error unrecognized arguments copy from+	605
one big virtual cpu+	605
error cannot retrieve repository metadata repomdxml+	562
launching a docker instance in openstack+	547
warning neutron has no endpoint in+	534
can we have same proxy server+	486

- Top questions with more comments.

Question subject	Comments
network is unreachable in instance+	5
not able to ssh into instance+	5
instance interface down+	5
openstack deployment on two nodes with+	5
how to install or upgrade liberty+	5
unable to create stacks in heat+	5
cannot start service openstack nova compute+	5
ceph openstack integration+	5
error connecting to ceph cluster with+	5
instance is forever in scheduling state+	5

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

Question subject	People partici-pating
glance unable to create image+	7
no internet connectivity on instances with+	6
error no valid host was found+	6
kilo install error create the service+	6
configure to open horizon on https+	5
docker and tenant gre network+	5
can i have vps based cloud+	5
rhev h like on centos or+	5
how to gracefully terminate instance in+	5
is it possible to create instance+	5

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
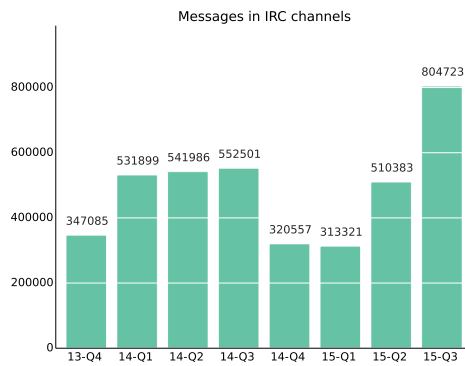
Period	Messages
13-Q4	347085
14-Q1	531899
14-Q2	541986
14-Q3	552501
14-Q4	320557
15-Q1	313321
15-Q2	510383
15-Q3	804723

People in IRC channels
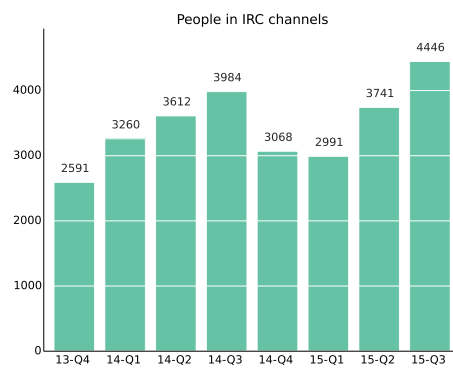
Period	People
13-Q4	2591
14-Q1	3260
14-Q2	3612
14-Q3	3984
14-Q4	3068
15-Q1	2991
15-Q2	3741
15-Q3	4446

IRC id	Messages sent
sdake	15138
SamYaple	14154
openstack	12156
clarkb	10694
mriedem	9920
anteaya	8231
fungi	7905
jroll	7761
EmilienM	7498
jgriffith	6757
mordred	6093
johnthetubaguy	5870
lifeless	5688
sdague	5656
mtreinish	5638

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.
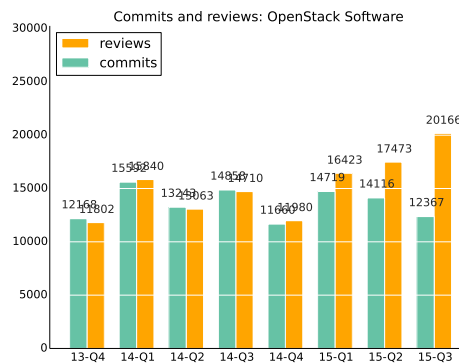
Period	Commits	Reviews
13-Q4	12168	11802
14-Q1	15592	15840
14-Q2	13243	13063
14-Q3	14858	14710
14-Q4	11660	11980
15-Q1	14719	16423
15-Q2	14116	17473
15-Q3	12367	20166
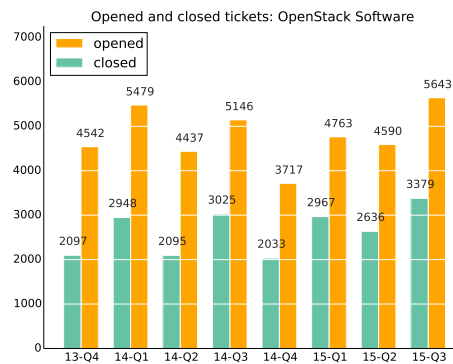
Period	Closed	Opened
13-Q4	2097	4542
14-Q1	2948	5479
14-Q2	2095	4437
14-Q3	3025	5146
14-Q4	2033	3717
15-Q1	2967	4763
15-Q2	2636	4590
15-Q3	3379	5643

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Merged and abandoned reviews: OpenStack Software
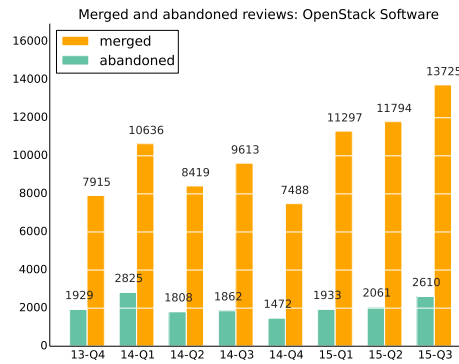
Period	Merged	Abandoned
13-Q4	7915	1929
14-Q1	10636	2825
14-Q2	8419	1808
14-Q3	9613	1862
14-Q4	7488	1472
15-Q1	11297	1933
15-Q2	11794	2061
15-Q3	13725	2610

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
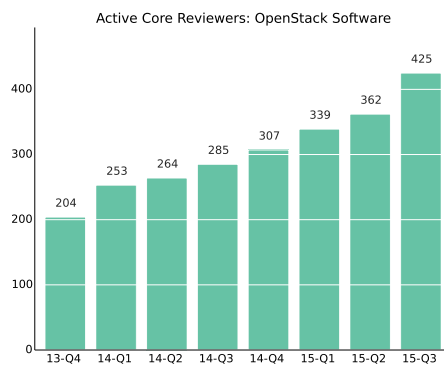
Period	Active Core
13-Q4	204
14-Q1	253
14-Q2	264
14-Q3	285
14-Q4	307
15-Q1	339
15-Q2	362
15-Q3	425

Authors OpenStack Software
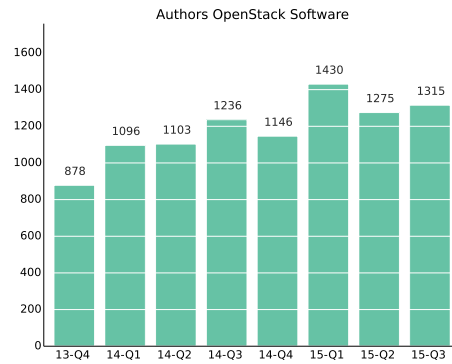
Period	Authors
13-Q4	878
14-Q1	1096
14-Q2	1103
14-Q3	1236
14-Q4	1146
15-Q1	1430
15-Q2	1275
15-Q3	1315

Commit (s)	Author
269	Doug Hellmann
241	Tim Buckley
227	Emilien Macchi
172	Monty Taylor
164	Andreas Jaeger
154	Matt Riedemann
144	David Pursehouse
130	Colleen Murphy
128	Mehdi Abaakouk
126	Dmitry Tantsur

Commit (s)	Organizations
2401	Red Hat
2265	HP
1308	Mirantis
1083	IBM
482	Rackspace
430	Huawei
360	Cisco
349	NEC
325	VMWare
290	Intel
277	Fujitsu

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
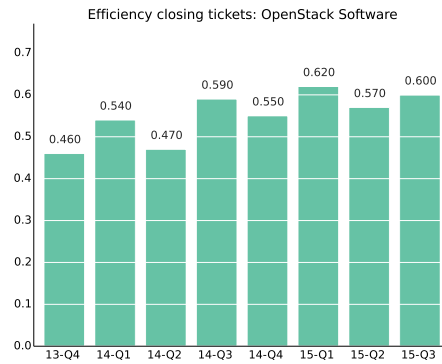
Period	Closed/Opened
13-Q4	0.46
14-Q1	0.54
14-Q2	0.47
14-Q3	0.59
14-Q4	0.55
15-Q1	0.62
15-Q2	0.57
15-Q3	0.6

Changesets efficiency: OpenStack Software
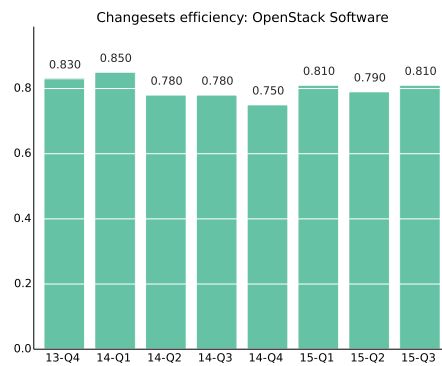
Period	(Aband. and Merg.)/Subm.
13-Q4	0.83
14-Q1	0.85
14-Q2	0.78
14-Q3	0.78
14-Q4	0.75
15-Q1	0.81
15-Q2	0.79
15-Q3	0.81

Time to merge (days): OpenStack Software
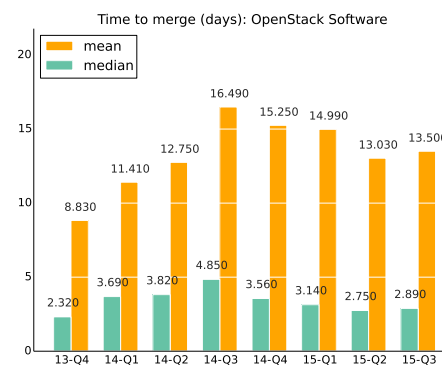
Period	Median	Mean
13-Q4	2.32	8.83
14-Q1	3.69	11.41
14-Q2	3.82	12.75
14-Q3	4.85	16.49
14-Q4	3.56	15.25
15-Q1	3.14	14.99
15-Q2	2.75	13.03
15-Q3	2.89	13.5

Patchsets per Changeset: OpenStack Software
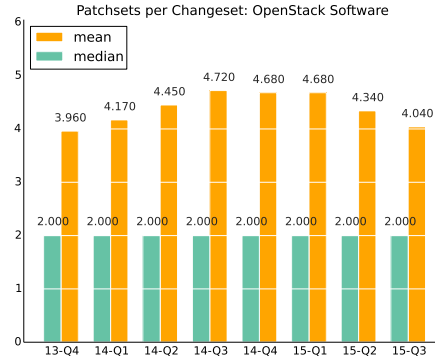
Period	Median	Mean
13-Q4	2.0	3.96
14-Q1	2.0	4.17
14-Q2	2.0	4.45
14-Q3	2.0	4.72
14-Q4	2.0	4.68
15-Q1	2.0	4.68
15-Q2	2.0	4.34
15-Q3	2.0	4.04

Time waiting for the reviewer: OpenStack Software
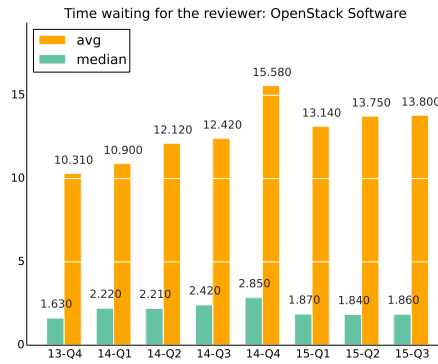
Period	Median	Mean
13-Q4	1.63	10.31
14-Q1	2.22	10.9
14-Q2	2.21	12.12
14-Q3	2.42	12.42
14-Q4	2.85	15.58
15-Q1	1.87	13.14
15-Q2	1.84	13.75
15-Q3	1.86	13.8

Time waiting for the submitter: OpenStack Software
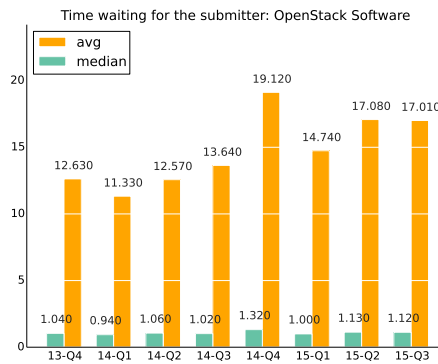
Period	Median	Mean
13-Q4	1.04	12.63
14-Q1	0.94	11.33
14-Q2	1.06	12.57
14-Q3	1.02	13.64
14-Q4	1.32	19.12
15-Q1	1.0	14.74
15-Q2	1.13	17.08
15-Q3	1.12	17.01

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	scr	review.openstack.org_openstack/app-catalog
app-catalog	scr	review.openstack.org_openstack/app-catalog-ui
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/barbican

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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

barbican	scr	review.openstack.org_openstack/python-kiteclient
barbican	scr	review.openstack.org_openstack/python-barbicanclient
barbican	scr	review.openstack.org_openstack/castellan
barbican	scr	review.openstack.org_openstack/kite
ceilometer	its	https://bugs.launchpad.net/python-ceilometerclient
ceilometer	its	https://bugs.launchpad.net/ceilometer
ceilometer	scm	git://git.openstack.org/openstack/python-gnocchiclient
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	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-common
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-identity
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack-ops-messaging
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	scr	review.openstack.org_openstack/cookbook-openstack-ops-database
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-block-storage
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
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
Common Libraries	its	https://bugs.launchpad.net/oslo.serialization
Common Libraries	its	https://bugs.launchpad.net/oslotest
Common Libraries	its	https://bugs.launchpad.net/hacking
Common Libraries	its	https://bugs.launchpad.net/oslo.context
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/taskflow
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/oslo.utils
Common Libraries	its	https://bugs.launchpad.net/pylockfile
Common Libraries	its	https://bugs.launchpad.net/oslo.messaging
Common Libraries	its	https://bugs.launchpad.net/oslo.db
Common Libraries	its	https://bugs.launchpad.net/oslo.rootwrap
Common Libraries	its	https://bugs.launchpad.net/oslosphinx
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/pbr
Common Libraries	its	https://bugs.launchpad.net/oslo.cache
Common Libraries	its	https://bugs.launchpad.net/oslo.i18n
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/taskflow
Common Libraries	scm	git://git.openstack.org/openstack/automaton
Common Libraries	scm	git://git.openstack.org/openstack/oslo.middleware
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.service
Common Libraries	scm	git://git.openstack.org/openstack/oslo.config
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	scm	git://git.openstack.org/openstack/mox3
Common Libraries	scm	git://git.openstack.org/openstack/oslo.policy
Common Libraries	scm	git://git.openstack.org/openstack-dev/oslo-cookiecutter
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/stevedore
Common Libraries	scm	https://github.com/openstack/oslo.version.git
Common Libraries	scm	git://git.openstack.org/openstack/futurist
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/oslo.utils
Common Libraries	scm	git://git.openstack.org/openstack/oslo.context
Common Libraries	scr	review.openstack.org_openstack/oslo.vmware
Common Libraries	scr	review.openstack.org_openstack/taskflow
Common Libraries	scr	review.openstack.org_openstack/oslo-incubator
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/pylockfile
Common Libraries	scr	review.openstack.org_openstack-dev/hacking
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.versionedobjects
Common Libraries	scr	review.openstack.org_openstack/stevedore
Common Libraries	scr	review.openstack.org_openstack-dev/pbr
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
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/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/tripleo-docs
Deployment	scm	git://git.openstack.org/openstack/tuskar
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-tripleoclient
Deployment	scm	git://git.openstack.org/openstack/python-tuskarclient
Deployment	scm	git://git.openstack.org/openstack/os-net-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	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/python-tripleoclient
Deployment	scr	review.openstack.org_openstack/os-refresh-config
Deployment	scr	review.openstack.org_openstack/tuskar
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/tripleo-docs
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/instack-undercloud
Deployment	scr	review.openstack.org_openstack/os-collect-config
Deployment	scr	review.openstack.org_openstack/tripleo-incubator

designate	its	https://bugs.launchpad.net/python-designateclient
designate	its	https://bugs.launchpad.net/designate
designate	scm	git://git.openstack.org/openstack/python-designateclient
designate	scm	git://git.openstack.org/openstack/designate-dashboard
designate	scm	git://git.openstack.org/openstack/designate
designate	scr	review.openstack.org_stackforge/python-designateclient
designate	scr	review.openstack.org_openstack/designate
designate	scr	review.openstack.org_openstack/designate-dashboard
Documentation	its	https://bugs.launchpad.net/openstack-manuals
Documentation	its	https://bugs.launchpad.net/openstack-api-site
Documentation	scm	git://git.openstack.org/openstack/openstack-doc-tools
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/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	scm	https://github.com/openstack/identity-api.git
Documentation	scm	https://github.com/openstack/volume-api.git
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/security-doc
Documentation	scr	review.openstack.org_openstack/openstack-doc-tools
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/netconn-api
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-translator
heat	scm	git://git.openstack.org/openstack-dev/heat-cfnclient
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	scr	review.openstack.org_openstack/python-heatclient
heat	scr	review.openstack.org_openstack/heat-templates
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
horizon	its	https://bugs.launchpad.net/django-openstack-auth
horizon	its	https://bugs.launchpad.net/tuskar-ui
horizon	its	https://bugs.launchpad.net/horizon
horizon	scm	git://git.openstack.org/openstack/django_openstack_auth
horizon	scm	git://git.openstack.org/openstack/django-openstack-auth-kerberos
horizon	scm	https://github.com/openstack/horizon.git
horizon	scm	git://git.openstack.org/openstack/manila-ui
horizon	scm	git://git.openstack.org/openstack/tuskar-ui
horizon	scm	git://git.openstack.org/openstack/horizon-cisco-ui
horizon	scr	review.openstack.org_openstack/manila-ui
horizon	scr	review.openstack.org_openstack/django-openstack-auth-kerberos
horizon	scr	review.openstack.org_openstack/horizon
horizon	scr	review.openstack.org_openstack/horizon-cisco-ui
Infrastructure	its	https://bugs.launchpad.net/openstack-ci

Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-yum
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-pip
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-bup
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-pgsql_backup
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-releasestatus
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-elasticsearch
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-github
Infrastructure	scm	https://github.com/openstack-infra/jenkins-job-builder.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/openstackid
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-ssl_cert_check
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-jeepyb
Infrastructure	scm	https://github.com/openstack-infra/zmq-event-publisher.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/gitdm
Infrastructure	scm	git://git.openstack.org/openstack-infra/groups
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-log_processor
Infrastructure	scm	git://git.openstack.org/openstack-infra/gerrit
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-apps_site
Infrastructure	scm	git://git.openstack.org/openstack-infra/storyboard-webclient
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-meetbot
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-os_client_config
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-accessbot
Infrastructure	scm	git://git.openstack.org/openstack-infra/openstackid-resources
Infrastructure	scm	https://github.com/openstack-infra/devstack-gate.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-tmpreaper
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-vcsrepo
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-openstackid
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-bandersnatch
Infrastructure	scm	git://git.openstack.org/openstack-infra/lodgeit
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-puppet

Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-drupal
Infrastructure	scm	git://git.openstack.org/openstack-infra/reviewstats
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-snmpd
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-gerrit
Infrastructure	scm	https://github.com/openstack-infra/git-review.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-httpd
Infrastructure	scm	https://github.com/openstack-infra/reviewday.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/glean
Infrastructure	scm	git://git.openstack.org/openstack-infra/activity-board
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-kibana
Infrastructure	scm	git://git.openstack.org/openstack-infra/ansible-build-image
Infrastructure	scm	git://git.openstack.org/openstack-infra/groups-static-pages
Infrastructure	scm	git://git.openstack.org/openstack-infra/os-loganalyze
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-mailman
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-hound
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-diskimage_builder
Infrastructure	scm	https://github.com/openstack-infra/askbot-theme.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-subunit2sql
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-unbound
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-askbot
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-zanata
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-planet
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-cgit
Infrastructure	scm	git://git.openstack.org/openstack-infra/infra-manual
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-reviewday
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/puppet-graphite
Infrastructure	scm	https://github.com/openstack-infra/nose-html-output.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/ansible-puppet
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-statusbot
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-jenkins
Infrastructure	scm	https://github.com/openstack-infra/zuul.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/bugdaystats
Infrastructure	scm	git://git.openstack.org/openstack-infra/nodepool

Infrastructure	scm	git://git.openstack.org/openstack-infra/subunit2sql
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-logrotate
Infrastructure	scm	git://git.openstack.org/openstack-infra/meetbot
Infrastructure	scm	git://git.openstack.org/openstack-infra/publications
Infrastructure	scm	git://git.openstack.org/openstack-infra/tripleo-ci
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-mysql_backup
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-refstack
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-ansible
Infrastructure	scm	https://github.com/openstack-infra/gear.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-ulimit
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-vinz
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-packagekit
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-bugdaystats
Infrastructure	scm	git://git.openstack.org/openstack-infra/yaml2ical
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-redis
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-elastic_recheck
Infrastructure	scm	https://github.com/openstack-infra/jeepyb.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-stackalytics
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-ssh
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-gerritbot
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-iptables
Infrastructure	scm	https://github.com/openstack-infra/statusbot.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-zuul
Infrastructure	scm	git://git.openstack.org/openstack-infra/elastic-recheck
Infrastructure	scm	git://git.openstack.org/openstack-infra/project-config
Infrastructure	scm	git://git.openstack.org/openstack-infra/irc-meetings
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-lodgeit
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Infrastructure	scm	git://git.openstack.org/openstack-infra/storyboard
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-mediawiki
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-infra-cookiecutter
Infrastructure	scm	git://git.openstack.org/openstack-infra/system-config
Infrastructure	scm	https://github.com/openstack-infra/config.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-sudoers
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-user

Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-openstackci
Infrastructure	scm	git://git.openstack.org/openstack-infra/trystack-site
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-asterisk
Infrastructure	scm	git://git.openstack.org/openstack-infra/shade
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-project_config
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Infrastructure	scm	git://git.openstack.org/openstack-infra/openstackweb
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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/puppet-haveged
Infrastructure	scm	https://github.com/openstack-infra/releasestatus.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/bindep
Infrastructure	scm	git://git.openstack.org/openstack-dev/openstack-nose
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-kerberos
Infrastructure	scm	https://github.com/openstack/openstack-planet.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-phabricator
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Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-logstash
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Infrastructure	scm	git://git.openstack.org/openstack-infra/python-storyboardclient
Infrastructure	scm	git://git.openstack.org/openstack-infra/zuul-packaging
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Infrastructure	scm	git://git.openstack.org/openstack-infra/pypi-mirror
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-apparmor
Infrastructure	scm	https://github.com/openstack-infra/gearman-plugin.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-unattended_upgrades
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Infrastructure	scr	review.openstack.org_openstack-infra/pypi-mirror
Infrastructure	scr	review.openstack.org_openstack-infra/openstackweb
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Infrastructure	scr	review.openstack.org_openstack-infra/puppet-kerberos
Infrastructure	scr	review.openstack.org_openstack-infra/zuul
Infrastructure	scr	review.openstack.org_openstack-infra/subunit2sql
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Infrastructure	scr	review.openstack.org_openstack-infra/puppet-apparmor
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Infrastructure	scr	review.openstack.org_openstack-infra/system-config
ironic	its	https://bugs.launchpad.net/ironic
ironic	scm	git://git.openstack.org/openstack/ironic-python-agent
ironic	scm	git://git.openstack.org/openstack/python-dracclient
ironic	scm	https://github.com/openstack/python-ironicclient.git
ironic	scm	git://git.openstack.org/openstack/ironic-lib
ironic	scm	git://git.openstack.org/openstack/ironic-inspector
ironic	scm	https://github.com/openstack/ironic.git
ironic	scm	git://git.openstack.org/openstack/python-ironic-inspector-client
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ironic	scm	git://git.openstack.org/openstack/ironic-webclient
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ironic	scr	review.openstack.org_openstack/coreos-image-builder
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ironic	scr	review.openstack.org_openstack/ironic-webclient
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ironic	scr	review.openstack.org_openstack/python-ironicclient
ironic	scr	review.openstack.org_openstack/python-dracclient
ironic	scr	review.openstack.org_openstack/ironic
keystone	its	https://bugs.launchpad.net/python-keystoneclient
keystone	its	https://bugs.launchpad.net/keystone
keystone	scm	git://git.openstack.org/openstack/python-keystoneclient-kerberos
keystone	scm	git://git.openstack.org/openstack/python-keystoneclient-federation
keystone	scm	https://github.com/openstack/python-keystoneclient.git
keystone	scm	git://git.openstack.org/openstack/keystonemiddleware

keystone	scm	git://git.openstack.org/openstack/python-keystoneclient-federation
keystone	scm	git://git.openstack.org/openstack/keystoneauth-saml2
keystone	scm	git://git.openstack.org/openstack/keystonemiddleware
keystone	scm	https://github.com/openstack/keystone.git
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keystone	scr	review.openstack.org_openstack/keystoneauth
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keystone	scr	review.openstack.org_openstack/keystonemiddleware
keystone	scr	review.openstack.org_openstack/keystoneauth-saml2
MagnetoDB	its	https://bugs.launchpad.net/magnetodb
MagnetoDB	its	https://bugs.launchpad.net/python-magnetodbclient
MagnetoDB	scm	git://git.openstack.org/openstack/python-magnetodbclient
MagnetoDB	scm	git://git.openstack.org/stackforge/magnetodb
MagnetoDB	scr	review.openstack.org_openstack/magnetodb
MagnetoDB	scr	review.openstack.org_openstack/python-magnetodbclient
magnum	its	https://bugs.launchpad.net/magnum
magnum	scm	git://git.openstack.org/openstack/magnum
magnum	scm	git://git.openstack.org/openstack/python-magnumclient
magnum	scm	git://git.openstack.org/openstack/magnum-ui
magnum	scr	review.openstack.org_openstack/magnum
magnum	scr	review.openstack.org_openstack/magnum-ui
magnum	scr	review.openstack.org_openstack/python-magnumclient
manila	its	https://bugs.launchpad.net/manila
manila	scm	git://git.openstack.org/openstack/manila
manila	scm	git://git.openstack.org/openstack/python-manilaclient
manila	scm	git://git.openstack.org/openstack/manila-image-elements
manila	scr	review.openstack.org_openstack/python-manilaclient
manila	scr	review.openstack.org_openstack/manila
manila	scr	review.openstack.org_openstack/manila-image-elements
Mistral	its	https://bugs.launchpad.net/mistral
Mistral	scm	git://git.openstack.org/openstack/mistral-extra
Mistral	scm	git://git.openstack.org/openstack/mistral

Mistral	scm	git://git.openstack.org/openstack/python-mistralclient
Mistral	scm	git://git.openstack.org/openstack/mistral-dashboard
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murano	scm	git://git.openstack.org/openstack/python-muranoclient
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murano	scm	git://git.openstack.org/openstack/murano-dashboard
murano	scm	git://git.openstack.org/openstack/murano
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murano	scm	git://git.openstack.org/openstack/murano-agent
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murano	scr	review.openstack.org_openstack/murano-apps
murano	scr	review.openstack.org_openstack/murano-deployment
neutron	its	https://bugs.launchpad.net/python-neutronclient
neutron	its	https://bugs.launchpad.net/neutron
neutron	scm	git://git.openstack.org/openstack/networking-powervm
neutron	scm	git://git.openstack.org/openstack/networking-odl
neutron	scm	git://git.openstack.org/openstack/vmware-nsx
neutron	scm	https://github.com/openstack/neutron.git
neutron	scm	git://git.openstack.org/openstack/networking-hpe
neutron	scm	git://git.openstack.org/openstack/networking-onos
neutron	scm	git://git.openstack.org/openstack/networking-midonet
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neutron	scm	git://git.openstack.org/openstack/networking-sfc
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neutron	scm	git://git.openstack.org/openstack/networking-ovn
neutron	scm	git://git.openstack.org/openstack/dragonflow
neutron	scm	git://git.openstack.org/openstack/kuryr

neutron	scm	git://git.openstack.org/openstack/networking-hyperv
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neutron	scm	git://git.openstack.org/openstack/networking-bgpvpn
neutron	scm	git://git.openstack.org/openstack/python-neutron-pd-driver
neutron	scm	https://github.com/openstack/python-neutronclient.git
neutron	scm	git://git.openstack.org/openstack/networking-ale-omniswitch
neutron	scm	git://git.openstack.org/openstack/neutron-fwaas
neutron	scm	git://git.openstack.org/openstack/networking-infoblox
neutron	scr	review.openstack.org_openstack/networking-ale-omniswitch
neutron	scr	review.openstack.org_openstack/networking-infoblox
neutron	scr	review.openstack.org_openstack/dragonflow
neutron	scr	review.openstack.org_openstack/networking-powervm
neutron	scr	review.openstack.org_openstack/networking-ovn
neutron	scr	review.openstack.org_openstack/networking-ofagent
neutron	scr	review.openstack.org_openstack/neutron-fwaas
neutron	scr	review.openstack.org_openstack/networking-hpe
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neutron	scr	review.openstack.org_openstack/python-neutronclient
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neutron	scr	review.openstack.org_openstack/vmware-nsx
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neutron	scr	review.openstack.org_openstack/python-neutron-pd-driver

neutron	scr	review.openstack.org_openstack/networking-plumgrid
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neutron	scr	review.openstack.org_openstack/networking-lenovo
neutron	scr	review.openstack.org_openstack/octavia
neutron	scr	review.openstack.org_openstack/neutron-lbaas-dashboard
neutron	scr	review.openstack.org_openstack/networking-cisco
neutron	scr	review.openstack.org_openstack/neutron-vpnaas
nova	its	https://bugs.launchpad.net/nova
nova	its	https://bugs.launchpad.net/python-novaclient
nova	scm	https://github.com/openstack/python-novaclient.git
nova	scm	https://github.com/openstack/nova.git
nova	scr	review.openstack.org_openstack/python-novaclient
nova	scr	review.openstack.org_openstack/nova
OpenStackAnsible	its	https://bugs.launchpad.net/openstack-ansible
OpenStackAnsible	scm	git://git.openstack.org/openstack/openstack-ansible
OpenStackAnsible	scr	review.openstack.org_openstack/openstack-ansible
OpenStackClient	its	https://bugs.launchpad.net/python-openstackclient
OpenStackClient	its	https://bugs.launchpad.net/python-cliff
OpenStackClient	its	https://bugs.launchpad.net/os-client-config
OpenStackClient	scm	git://git.openstack.org/openstack/cliff
OpenStackClient	scm	https://github.com/openstack/python-openstackclient.git
OpenStackClient	scm	git://git.openstack.org/openstack/os-client-config
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OpenStackClient	scr	review.openstack.org_openstack/cliff
Packaging-deb	scm	git://git.openstack.org/openstack/deb-neutron-lbaas
Packaging-deb	scm	git://git.openstack.org/openstack/deb-swift
Packaging-deb	scm	git://git.openstack.org/openstack/deb-openstack-pkg-tools
Packaging-deb	scm	git://git.openstack.org/openstack/deb-designate-dashboard
Packaging-deb	scm	git://git.openstack.org/openstack/deb-keystone
Packaging-deb	scm	git://git.openstack.org/openstack/deb-neutron
Packaging-deb	scm	git://git.openstack.org/openstack/deb-rally
Packaging-deb	scm	git://git.openstack.org/openstack/deb-cinder
Packaging-deb	scm	git://git.openstack.org/openstack/deb-horizon
Packaging-deb	scm	git://git.openstack.org/openstack/deb-murano
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Packaging-deb	scm	git://git.openstack.org/openstack/deb-tempest
Packaging-deb	scm	git://git.openstack.org/openstack/deb-ceilometer

Packaging-deb	scm	git://git.openstack.org/openstack/deb-glance
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Packaging-deb	scr	review.openstack.org_openstack/deb-nova
Packaging-rpm	scm	git://git.openstack.org/openstack/rpm-packaging
Packaging-rpm	scm	git://git.openstack.org/openstack/rpm-packaging-tools

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Packaging-rpm	scr	review.openstack.org_openstack/rpm-packaging-tools
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-cinder
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-horizon
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-neutron
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-trove
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-gnocchi
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-manila
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
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-monasca
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-swift
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-glance
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-keystone
PuppetOpenStack	its	https://bugs.launchpad.net/puppet-openstacklib
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PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-tuskar

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PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-designate
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PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-ironic
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PuppetOpenStack	scr	review.openstack.org_openstack/puppet-trove
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/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-dev/grenade
Quality Assurance	scm	git://git.openstack.org/openstack-dev/devstack
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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
Quality Assurance	scr	review.openstack.org_openstack/tempest
Rally	its	https://bugs.launchpad.net/rally
Rally	scm	git://git.openstack.org/openstack/rally
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/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	scm	git://git.openstack.org/openstack-infra/release-tools
Release cycle management	scr	review.openstack.org_openstack-dev/specs-cookiecutter
Release cycle management	scr	review.openstack.org_openstack/requirements
Release cycle management	scr	review.openstack.org_openstack/releases
sahara	its	https://bugs.launchpad.net/sahara
sahara	its	https://bugs.launchpad.net/python-saharaclient
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-image-elements
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Searchlight	scm	git://git.openstack.org/openstack/searchlight
Searchlight	scr	review.openstack.org_openstack/searchlight
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
Security	scm	git://git.openstack.org/openstack/security-doc
Security	scr	review.openstack.org_openstack/security-specs
Security	scr	review.openstack.org_openstack/ossa
Security	scr	review.openstack.org_stackforge/bandit
Security	scr	review.openstack.org_openstack/security-doc
Security	scr	review.openstack.org_stackforge/anchor
Solum	scm	git://git.openstack.org/openstack/solum
Solum	scm	git://git.openstack.org/openstack/python-solumclient
Solum	scr	review.openstack.org_openstack/python-solumclient
Solum	scr	review.openstack.org_openstack/solum
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
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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	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/trove
zaqar	its	https://bugs.launchpad.net/python-zaqarclient
zaqar	its	https://bugs.launchpad.net/zaqar
zaqar	scm	git://git.openstack.org/openstack/zaqar
zaqar	scm	git://git.openstack.org/openstack/python-zaqarclient
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