# OpenStack Community Activity Report April-June, 2015 Report sponsored by the OpenStack Foundation



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This report would not exist without the effort of the people involved in the development of the OpenStack Activity Board, Grimoire toolset and the feedback of the people in the development mailing list of the OpenStack Foundation.



#### **Executive Summary**

The April-July 2015 summary of OpenStack Community Activity  $\operatorname{Re-port}^1$ 

#### Key findings:

#### Users community keeps growing

With an increase of more than a 300% in the total number of questions posted in ask.openstack.org, this is the unique communication channels with such measured increase. Other channels such as IRC or mailing lists also grow but slower. Although this is the activity measured for the last year, the last quarter shows a significant activity drop.

#### Active Core Reviewers are increasing

Although mid-release cycle analysis usually show drops of activity in most of the areas, the total number of active core reviewers has reached a new peak. Up to 339 core reviewers participated in the review process. This shows an increase of around 9% if compared to the previous quarter analysis.

Process keeps stable The time to merge patches for the main projects show similar numbers than in previous quarter. However, Nova seems to be the project out of the common time to review with up to 10 days. On the other hand, Glance is more in line with the rest of the projects if compared to previous quarter. In any case, Glance shows the second highest meadian time to review with up to 7 days.

#### IRC activity recovers old activity

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.

<sup>&</sup>lt;sup>1</sup>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.

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# 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 second quarter of 2015, comparing it to previous eight quarters.<sup>1</sup>.

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<sup>2</sup>.

Data source   Activity 365 days		Change (wrt to prev. 365 days)
$\operatorname{Gits}$	69838 commits	2%
Tickets	16008 closed tickets	32%
Mailing Lists	39593 sent emails	17%
$\operatorname{Gerrit}$	73545 submitted reviews	24%
Askbot	5707 posted questions	70%
IRC	1917041 messages	2%

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

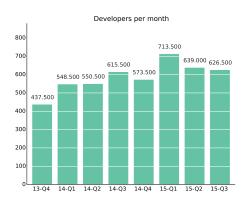
The overall activity keeps increasing. Specifically in the case of the

 $<sup>^{1}</sup>$ The analyzed data sources are available in appendixB

<sup>&</sup>lt;sup>2</sup>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 where the total number of questions have increased more than a 300%. On the other hand, development activity in terms of commits seems to keep stable as in previuos reports. While Gerrit submissions have increased a 20% if compared to the previuos 365 days.



Period	Authors per month
13-Q4	437.5
14-Q1	548.5
14-Q2	550.5
14-Q3	615.5
14-Q4	573.5
15-Q1	713.5
15-Q2	639.0
15-Q3	626.5

In this second quarter of 2015 the mean number of developers active per month has reached a total of 563. It is observed a decrease if compared to the previous quarter. This is an usual behaviour of the community during the mid term releases cycle.

The total number of contributors divided into three sets (core, regular and casual<sup>3</sup>) follows a similar patter. This mid term release cycle shows a decrease if compared to previous quarter. However this keeps increasing if compared to the previous mid term cycle (2014-Q4).

 $<sup>^3</sup>$ 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.



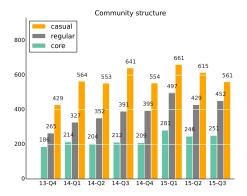


Figure 1.1: Evolution of the last 8 quarters of the core, regular and casual developers (Git activity)

Period	Core	Regular	Occasional
13-Q4	186	265	429
14-Q1	214	327	564
14-Q2	204	352	553
14-Q3	212	391	641
14-Q4	209	395	554
15-Q1	281	497	661
15-Q2	246	429	615
15-Q3	251	452	561

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: up to 100 of them. Most of them are part of new projects.
- 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.



- Old nomenclature used to have a hierarchy of the projects is now renewed.
  - OpenStack Software now includes all projects and not only the old incubated and integrated ones.
  - Client projects were usually under the 'Clients' chapter. However, each of the client files are now part of each of their correspondent projects.
  - Incubated and integrated sections in the main report has been removed. This nomenclature is not used any more.
  - specs files are not included in the analysis.
- Storyboard activity is not measured within this report.

# Chapter 2

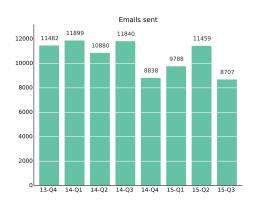
# Communication and Support-Related Activities

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.

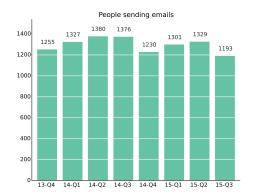
#### 2.1 Mailing Lists

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.

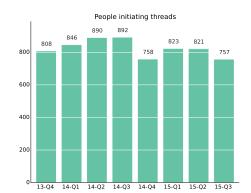




Period	Emails
13-Q4	11482
14-Q1	11899
14-Q2	10880
14-Q3	11840
14-Q4	8838
15-Q1	9788
15-Q2	11459
15-Q3	8707



Period	People
13-Q4	1255
14-Q1	1327
14-Q2	1380
14-Q3	1376
14-Q4	1230
15-Q1	1301
15-Q2	1329
15-Q3	1193
	•



Period	People
13-Q4	808
14-Q1	846
14-Q2	890
14-Q3	892
14-Q4	758
15-Q1	823
15-Q2	821
15-Q3	757

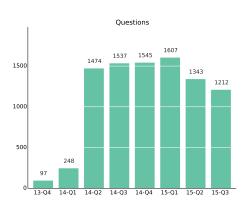


Initial Author and Date	Subject	Number Messages
Tristan Cacqueray 2015-09-17	[openstack-dev] [all][elections] PTL nomination period is now over	55
Monty Taylor 2015-09-15	[openstack-dev] [nova][neutron][devstack] New proposed 'default' network model	45
Tamara.Johnston 2015-09-02	[OpenStack Foundation] [Diversity] re: Diversity Workgroup APAC 2015-08-27	41
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
Kyle Mestery 2015-08-12	[openstack-dev] [neutron] I am pleased to propose two new Neutron API/DB/RPC core reviewers!	32
Banashankar KV 2015-09-21	[openstack-dev] [neutron][lbaas] - Heat support for LbaasV2	30
Monty Taylor 2015-07-06 Vladimir Kozhukalov	ERROR	28
2015-09-08	[openstack-dev] [Fuel] Remove MOS DEB repo from master node	28
Thierry Carrez 2015-08-03	[openstack-dev] [stable] [infra] How to auto-generate stable release notes	27

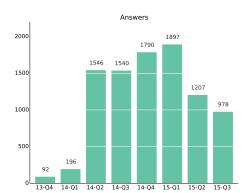


#### 2.2 Questions and Answers

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, questions with the highest number of different people participating and the tags with the highest number of references.

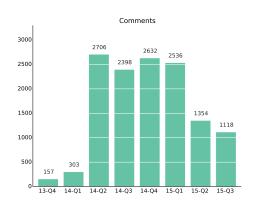


Period	Questions
13-Q4	97
14-Q1	248
14-Q2	1474
14-Q3	1537
14-Q4	1545
15-Q1	1607
15-Q2	1343
15-Q3	1212
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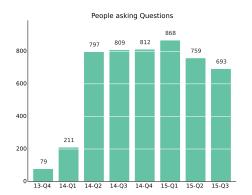


Period	Answers
13-Q4	92
14-Q1	196
14-Q2	1546
14-Q3	1540
14-Q4	1790
15-Q1	1897
15-Q2	1207
15-Q3	978
	1





Period	Comments
13-Q4	157
14-Q1	303
14-Q2	2706
14-Q3	2398
14-Q4	2632
15-Q1	2536
15-Q2	1354
15-Q3	1118



Period	People asking
13-Q4	79
14-Q1	211
14-Q2	797
14-Q3	809
14-Q4	812
15-Q1	868
15-Q2	759
15-Q3	693
•	1

• Top visited questions.

#### Question subject

how openstack comunicates with hyper v+
openstack deployment on two nodes with+
no internet connectivity on instances with+
launching a docker instance in openstack+
problems with swift and keystone on+
how to setup swift with commvault+
how to change keystone endpoint urls+
how can i use a snapshot+
status fix released+
kvm or gemu+

• Top questions with more comments.



Question subject	Comments
openstack deployment on two nodes with+	5
windows instance freezes after attaching a+	5
not able to boot instance with+	5
importerror cannot import name i18n+	5
instance is forever in scheduling state+	5
keystone error 500 when creating identity+	5
juno neutron dvr and multiple external+	5
glance in combination with docker provokes+	5
neutron qrouters not passing traffic onto+	5
how does the libvirtxml file generate+	5

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

oject People
partici-
pating
to create image+ 7
nnectivity on instances with+ 6
or create the service+ 6
host was found+ 5
o create instance+ 5
based cloud+ 5
oen horizon on https+ 5
nant gre network+ 5
in openstack kilo+ 5
sing openstack+ 4
nnectivity on instances with+ or create the service+ host was found+ o create instance+ based cloud+ oen horizon on https+ nant gre network+ in openstack kilo+  6  6  6  7  8  9  10  10  10  10  10  10  10  10  10

Tag name

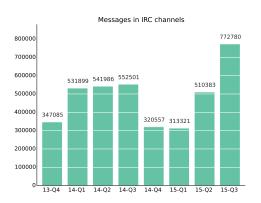
• Top tags

Ocurrences

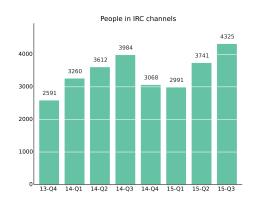
#### 2.3 IRC

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.





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	772780



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	4325



IRC id	Messages
	${f sent}$
sdake	14124
SamYaple	13236
openstack	11713
clarkb	10546
mriedem	9655
anteaya	7758
fungi	7730
jroll	7356
EmilienM	7145
jgriffith	6304
mordred	6076
lifeless	5581
johnthetubaguy	5503
lucasagomes	5477
sdague	5426

## 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.

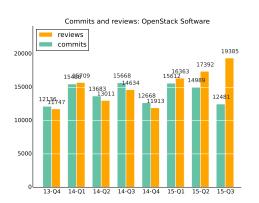
Details on individual OpenStack project teams are provided in separate documents on git.openstack.org/cgit/openstack-infra/activity-board/tree/reports/2015-q



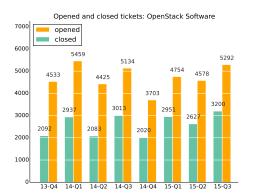
#### 3.1 Overview of OpenStack Project Teams

#### 3.2 Activity

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

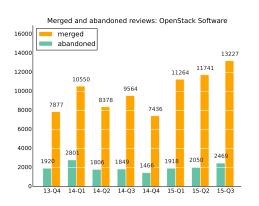


Period	Commits	Reviews
13-Q4	12136	11747
14-Q1	15488	15709
14-Q2	13683	13011
14-Q3	15668	14634
14-Q4	12668	11913
15-Q1	15612	16363
15-Q2	14989	17392
15-Q3	12481	19385



Period	Closed	Opened
13-Q4	2092	4533
14-Q1	2937	5459
14-Q2	2083	4425
14-Q3	3013	5134
14-Q4	2020	3703
15-Q1	2951	4754
15-Q2	2627	4578
15-Q3	3200	5292

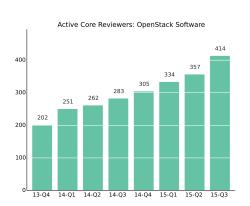




Period	Merged	Abandoned
13-Q4	7877	1920
14-Q1	10550	2801
14-Q2	8378	1806
14-Q3	9564	1849
14-Q4	7436	1466
15-Q1	11264	1918
15-Q2	11741	2050
15-Q3	13227	2469

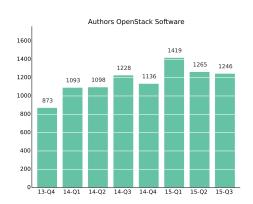
#### 3.3 Community

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



Period	Active Core
13-Q4	202
14-Q1	251
14-Q2	262
14-Q3	283
14-Q4	305
15-Q1	334
15-Q2	357
15-Q3	414
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Period	Authors
13-Q4	873
14-Q1	1093
14-Q2	1098
14-Q3	1228
14-Q4	1136
15-Q1	1419
15-Q2	1265
15-Q3	1246
•	1



Mellanox Technologies

Objectif-libre

JHU APL

Commit (s)	Author	Commit (s)	Organizations
1303	OpenStack Proposal Bot	2184	Red Hat
258	Doug Hellmann	2070	HP
230	Tim Buckley	1471	OpenStack Foundation
210	Emilien Macchi	1160	Mirantis
157	Monty Taylor	978	IBM
155	Andreas Jaeger	439	Rackspace
143	Matt Riedemann	398	Huawei
128	Colleen Murphy	312	Cisco
128	Mehdi Abaakouk	310	NEC
127	David Pursehouse	308	VMWare
	1	268	Intel
		255	Fujitsu
		213	StackOps Technologies
		169	SUSE
		154	Puppet Labs
		136	99cloud
		131	Individual
		129	Sony Mobile
		90	NTT
		73	GNU
		70	Internap
		70	Midokura
		69	NetApp
		68	VA Linux Systems Japan
		66	Centrin
		64	B1 Systems
		61	Nicira
		56	UnitedStack
		54	NTT Data
		51	Big Switch Networks
		51	Thales
		42	SwiftStack
		41	Cloudscaling
		41	eNovance
		41	SAP
		38	Ericsson
		36	Metacloud
		$\frac{35}{35}$	Orange
		33	eBay
	20	32	EMC
		29	Xemeti
		$\frac{29}{26}$	Alcatel-Lucent
		20	Alcater-Ducent

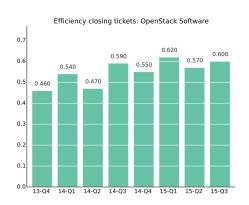
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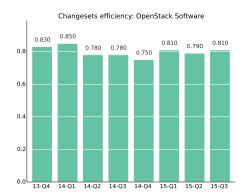


#### 3.4 Process

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 patchest review process.

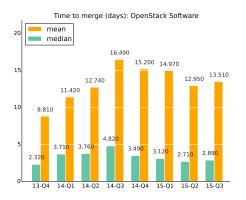


Period	Closed/Opened
13-Q4	0.46
14-Q1	0.54
14-Q2	0.47
14-Q3	0.59
14 - Q4	0.55
15-Q1	0.62
15-Q2	0.57
15-Q3	0.6
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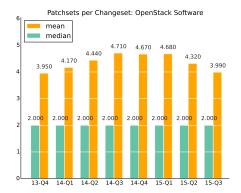


Period	(Aband. and Merg.)/Subm.
13-Q4	0.83
14-Q1	0.85
14-Q2	0.78
14-Q3	0.78
14-Q4	0.75
15-Q1	0.81
15-Q2	0.79
15-Q3	0.81

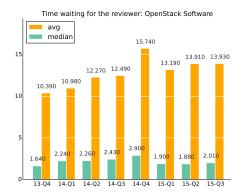




Period	Median	Mean
13-Q4	2.32	8.81
14-Q1	3.71	11.42
14-Q2	3.76	12.74
14-Q3	4.82	16.49
14-Q4	3.49	15.2
15-Q1	3.12	14.97
15-Q2	2.71	12.95
15-Q3	2.89	13.51

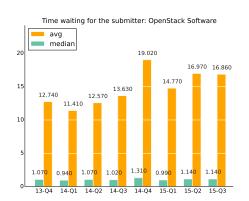


Period	Median	Mean
13-Q4	2.0	3.95
14-Q1	2.0	4.17
14-Q2	2.0	4.44
14-Q3	2.0	4.71
14-Q4	2.0	4.67
15-Q1	2.0	4.68
15-Q2	2.0	4.32
15-Q3	2.0	3.99



Period	Median	Mean
13-Q4	1.64	10.39
14-Q1	2.24	10.98
14-Q2	2.26	12.27
14-Q3	2.43	12.49
14-Q4	2.9	15.74
15-Q1	1.9	13.19
15-Q2	1.88	13.91
15-Q3	2.01	13.93





Period	Median	Mean
13-Q4	1.07	12.74
14-Q1	0.94	11.41
14-Q2	1.07	12.57
14-Q3	1.02	13.63
14-Q4	1.31	19.02
15-Q1	0.99	14.77
15-Q2	1.14	16.97
15-Q3	1.14	16.86

## Appendix A

### Metrics Definitions

Metrics measured in each OpenStack program:

- 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.
- 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 changest 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 changest is closing and no more times are registered either for the reviewer or the submitter. For this analysis, those patchesets 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<sup>1</sup>.

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<sup>2</sup> provided by the OpenStack Foundation.

Program	Data	Repository
	source	
barbican	its	https://bugs.launchpad.net/barbican
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	scm	git://git.openstack.org/openstack/kite
barbican	scm	git://git.openstack.org/openstack/python-kiteclient
barbican	scr	review.openstack.org_openstack/barbican
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

 $<sup>^1 \</sup>verb|https://github.com/VizGrimoire/GrimoireLib/blob/master/vizGrimoireJS/openstack_report.py. Commit identified with the hash $d33b6f5951662fb5bd895eee89c0b0344b09c956$$ 

<sup>&</sup>lt;sup>2</sup>http://git.openstack.org/cgit/openstack/governance/tree/reference/projects.yaml



ceilometer	its	https://bugs.launchpad.net/python-ceilometerclient
ceilometer	its	https://bugs.launchpad.net/ceilometer
ceilometer	scm	git://git.openstack.org/openstack/aodh
ceilometer	scm	https://github.com/openstack/python-ceilometerclient.git
ceilometer	scm	git://git.openstack.org/openstack/gnocchi
ceilometer	scm	https://github.com/openstack/ceilometer.git
ceilometer	scm	git://git.openstack.org/openstack/ceilometermiddleware
ceilometer	scr	review.openstack.org_openstack/ceilometer
ceilometer	scr	review.openstack.org_openstack/gnocchi
ceilometer	scr	review.openstack.org_openstack/ceilometermiddleware
ceilometer	scr	review.openstack.org_openstack/aodh
ceilometer	scr	review.openstack.org_openstack/python-ceilometerclient
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-
ChofOn on Ct a al-	G.6700	dashboard
ChefOpenStack	scm	git://git.openstack.org/openstack/cookbook-openstack- integration-test
		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-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-
Cheropenstaen	501	orchestration
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-
onero pensucui		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-mage
oner openiouen		database
ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-block-storage



ChefOpenStack	scr	review.openstack.org_openstack/cookbook-openstack-client
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/cinder
cinder	scr	review.openstack.org_openstack/python-cinderclient
cinder	scr	review.openstack.org_openstack/os-brick
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	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	scm	git://git.openstack.org/openstack/oslo.serialization
Common Libraries	scm	git://git.openstack.org/openstack/pylockfile
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/oslo.service
Common Libraries	scm	git://git.openstack.org/openstack/oslo.policy
Common Libraries	scm	git://git.openstack.org/openstack/oslo.vmware



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.db
Common Libraries	scm	git://git.openstack.org/openstack/oslo.context
Common Libraries	scm	git://git.openstack.org/openstack/automaton
Common Libraries	scm	git://git.openstack.org/openstack/oslo.log
Common Libraries	scm	git://git.openstack.org/openstack/oslo.utils
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.i18n
Common Libraries	scm	git://git.openstack.org/openstack/oslo.rootwrap
Common Libraries	scm	git://git.openstack.org/openstack/oslotest
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/oslo.concurrency
Common Libraries	scm	git://git.openstack.org/openstack/futurist
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/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/tooz
Common Libraries	scm	git://git.openstack.org/openstack/mox3
Common Libraries	scr	review.openstack.org_openstack/oslo.middleware
Common Libraries	scr	review.openstack.org_openstack-dev/pbr
Common Libraries	scr	review.openstack.org_openstack/oslo.versionedobjects
Common Libraries	scr	review.openstack.org_openstack/oslo.i18n
Common Libraries	scr	review.openstack.org_openstack/stevedore
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.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/oslo.policy
Common Libraries	scr	review.openstack.org_openstack/oslo-incubator
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.context
Common Libraries	scr	review.openstack.org_openstack/mox3
Common Libraries	scr	review.openstack.org_openstack/oslo.messaging
Common Libraries	scr	review.openstack.org_openstack-dev/hacking
Common Libraries	scr	review.openstack.org_openstack/oslo.utils
Common Libraries	scr	review.openstack.org_openstack/oslo.db
Common Libraries	scr	review.openstack.org_openstack/pylockfile
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/oslo.rootwrap
Common Libraries	scr	review.openstack.org_openstack/oslo.config
Common Libraries	scr	review.openstack.org_openstack/oslosphinx
Common Libraries	scr	review.openstack.org_openstack/oslo.concurrency
Common Libraries	scr	review.openstack.org_openstack/automaton
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	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	$\operatorname{scm}$	git://git.openstack.org/openstack/dib-utils
Deployment	$\operatorname{scm}$	git://git.openstack.org/openstack/os-cloud-config
Deployment	$\operatorname{scm}$	https://github.com/openstack/tripleo-heat-templates.git
Deployment	$\operatorname{scm}$	git://git.openstack.org/openstack/python-tuskarclient
Deployment	$\operatorname{scm}$	git://git.openstack.org/openstack/os-net-config
Deployment	$\operatorname{scm}$	git://git.openstack.org/openstack/os-collect-config
Deployment	$\operatorname{scm}$	https://github.com/openstack/tripleo-image-elements.git
Deployment	$\operatorname{scm}$	git://git.openstack.org/openstack/diskimage-builder
Deployment	$\operatorname{scm}$	git://git.openstack.org/openstack/os-apply-config
Deployment	$\operatorname{scm}$	git://git.openstack.org/openstack/tuskar
Deployment	$\operatorname{scm}$	git://git.openstack.org/openstack/tripleo-common
Deployment	$\operatorname{scm}$	git://git.openstack.org/openstack/tripleo-puppet-elements
Deployment	$\operatorname{scm}$	git://git.openstack.org/openstack/os-refresh-config
Deployment	scm	https://github.com/openstack/tripleo-incubator.git
Deployment	scr	review.openstack.org_openstack/os-refresh-config
Deployment	scr	review.openstack.org_openstack/tuskar
Deployment	scr	review.openstack.org_openstack/os-cloud-config
Deployment	scr	$review.openstack.org\_openstack/tripleo-common$



Deployment	scr	review.openstack.org_openstack/tripleo-image-elements
Deployment	scr	review.openstack.org_openstack/diskimage-builder
Deployment	scr	review.openstack.org_openstack/dib-utils
Deployment	scr	review.openstack.org_openstack/python-tuskarclient
Deployment	scr	review.openstack.org_openstack/tripleo-puppet-elements
Deployment	scr	review.openstack.org_openstack/tripleo-puppet-elements 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		review.openstack.org_openstack/tripleo-heat-templates
Deployment	scr	review.openstack.org_openstack/os-net-config
designate	scr	, , ,
_	its	https://bugs.launchpad.net/designate
designate	its	https://bugs.launchpad.net/python-designateclient
designate	scm	git://git.openstack.org/openstack/designate-dashboard
designate	scm	git://git.openstack.org/openstack/designate
designate	scm	git://git.openstack.org/openstack/python-designateclient
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	https://github.com/openstack/api-site.git
Documentation	$_{ m scm}$	https://github.com/openstack/object-api.git
Documentation	$_{ m scm}$	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	$_{ m scm}$	https://github.com/openstack/volume-api.git
Documentation	scm	git://git.openstack.org/openstack/openstack-doc-tools
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-dev/heat-cfnclient
heat	scm	git://git.openstack.org/openstack/heat-cfntools
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	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/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	https://github.com/openstack/horizon.git
horizon	scm	git://git.openstack.org/openstack/tuskar-ui
horizon	scm	git://git.openstack.org/openstack/django_openstack_auth
horizon	scm	git://git.openstack.org/openstack/django-openstack-auth-
		kerberos



horizon	scr	review.openstack.org_openstack/django-openstack-auth-kerberos
horizon	scr	review.openstack.org_openstack/horizon
Infrastructure	its	https://bugs.launchpad.net/openstack-ci
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-subunit2sql
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-httpd
Infrastructure	scm	git://git.openstack.org/openstack-infra/activity-board
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-unbound
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-kibana
Infrastructure	$_{\rm scm}$	git://git.openstack.org/openstack-infra/reviewstats
Infrastructure	scm	git://git.openstack.org/openstack-infra/os-loganalyze
Infrastructure	scm	https://github.com/openstack-infra/askbot-theme.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-zanata
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-mailman
Infrastructure	scm	git://git.openstack.org/openstack-infra/lodgeit
Infrastructure	scm	https://github.com/openstack-infra/gerritbot.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-apps_site
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-openafs
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-askbot
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-cgit
Infrastructure	scm	https://github.com/openstack-infra/nose-html-output.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/gitdm
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-planet
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-
		etherpad_lite
Infrastructure	scm	https://github.com/openstack-infra/zuul.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/openstackid
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-reviewday
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-statusbot
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-graphite
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-ulimit
Infrastructure	scm	git://git.openstack.org/openstack-infra/subunit2sql
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-jenkins
Infrastructure	scm	git://git.openstack.org/openstack-infra/nodepool
Infrastructure	scm	git://git.openstack.org/openstack-infra/tripleo-ci
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-vinz
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-logrotate
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-
		pgsql_backup
Infrastructure	scm	https://github.com/openstack-infra/gear.git



Infrastructure	scm	git://git.openstack.org/openstack-infra/python- storyboardclient
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-
IIII asti actaic	SCIII	mysql_backup
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-ansible
Infrastructure		git://git.openstack.org/openstack-infra/puppet-ansible
imasuucture	scm	bugdaystats
Infrastructure	sem	https://github.com/openstack-infra/jeepyb.git
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-
mirastructure	scm	phabricator
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-packagekit
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-
		elastic_recheck
Infrastructure	scm	https://github.com/openstack-infra/statusbot.git
Infrastructure	$_{ m scm}$	git://git.openstack.org/openstack-infra/bindep
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-redis
Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-ssh
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Infrastructure	scm	https://github.com/openstack-infra/gerritlib.git
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		project_config



	Infrastructure	scm	git://git.openstack.org/openstack-infra/puppet-
	Infrastructure	gam	simpleproxy git://git.openstack.org/openstack-infra/puppet-exim
	Infrastructure	scm	https://github.com/openstack/openstack-planet.git
- 1	Infrastructure	scm	- ' - ' -
		scm	git://git.openstack.org/openstack-infra/puppet-storyboard
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T.C.		log_processor
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OpenStackClient	its	https://bugs.launchpad.net/os-client-config
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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-open stacklib



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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	scm	git://git.openstack.org/openstack/puppet-tempest
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PuppetOpenStack	scm	git://git.openstack.org/openstack/puppet-cinder
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Quality Assurance	its	https://bugs.launchpad.net/devstack
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