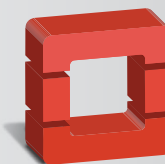# OPENSTACK FOUNDATION
2015 ANNUAL REPORT

Vancouver Summit, 2015

CHAIRMAN'S NOTE

As we reflect on the growth and accomplishments the OpenStack community achieved throughout 2015, it is hard to look back without getting excited for the future. We are a community of growth, innovation and fun. We are definitely setting new standards for how open source is developed.

The OpenStack Board of Directors is a very active element of the community. The Board continually works to enable the efforts of the community through active engagement, participation and leadership. Within the Board there continues to be a strong sense of community with the desire for the betterment of the community.

Through the Board's financial related oversight we continue to ensure the fiscal viability of the Foundation, recognizing that those carefully allocated funds are the lifeline that enables our underlying technical infrastructure, staff, events, travel and many other critical activities.

As a large active Board with 24 members, we have learned that forming focused subject teams expedite the effort, is more efficient, and much more community inclusive. To this end the Board has formed or helped instigate several work efforts within the community. As we celebrate the success of the community and accomplishments of the Board we owe much to the leadership efforts of these committees and work groups. This annual report includes synopsis from several work group chairs.

A significant result from these work groups is a real sense of community. We have learned the value of working together in a spirit of cooperation and betterment. We have become a global community that is fair, open and inviting to our existing members are well as for new and future members from around the globe. We are breaking down contribution barriers while minimizing stakeholder risk. We are providing individual growth and skills through training and certification. We are building lasting friendships and colleagues.

Together we are building unequaled technology and software. Through the efforts of these work groups, we are able to convey to the market the core, mature set of capabilities for OpenStack. Upon this core set of capabilities we can enable continued technological growth, development and innovation by this fast paced project. The result is broad industry adoption, wide range use and market growth.
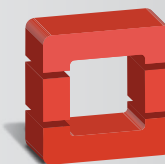
Take confidence in the future of OpenStack. We have great leadership, an amazing community and unparalleled technology. Let's be bullish on what we can and will do in 2016!

Alan Clark
OpenStack Board Chair

Lew Tucker
OpenStack Board Vice-chair

2015 BOARD OF DIRECTORS

Platinum Directors
Alan Clark, SUSE (Chair)
Eileen Evans, HP
Imad Sousou, Intel
John Zannos, Canonical
Mark McLoughlin, Red Hat
Toby Ford, AT&T
Todd Moore, IBM
Van Lindberg, Rackspace

Gold Directors
Boris Renski, Mirantis
Chris Kemp, Nebula (January - April)
Jonathan LaCour, DreamHost (December)
Lew Tucker, CIsco (Vice Chair)
Mark McClain
Randy Bias, EMC (March - December)
Robert Esker, NetApp
Roland Chan, Aptira (May - December)
Sean Roberts, EMC (January - March)
Simon Anderson, DreamHost (January - November)
Steven Hallett, Symantec
Tristan Goode, Aptira (January - April)
Tsugikazu Shibata, NEC (May - December)

Individual Directors
Alex Freedland, Mirantis
Egle Sigler, Rackspace
Kavit Munshi, Aptira
Monty Taylor, HP, IBM
Rob Hirschfeld, RackN
Russell Bryant, Red Hat
Shane Wang, Intel (May - December)
Tim Bell, CERN
Vishvananda Ishaya, Nebula (January - May)
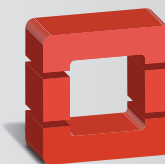
OPENSTACK FOUNDATION STAFF UPDATE

In 2015, the Foundation staff and community made great strides toward cloud interoperability and building a global network of OpenStack deployments. Our team helped support the OpenStack community and drive adoption by 1) launching the first interoperability testing program for OpenStack Powered products, including public clouds and distributions, 2) launching the Project Navigator to simplify the project landscape for users 3) building relationships with adjacent communities to address important new markets, including containers, application development and NFV, and 4) securing our IRS 501c6 tax-exempt status, which was a lengthy process and major event for the broader open source community.

Building on the work of the DefCore Committee, we hit an important milestone in May by rolling out the initial set of interoperability specifications, including updating our commercial trademark licensing programs to require testing and validation of all new OpenStack Powered products and services. We also began to define the first professional certification, Certified OpenStack Administrator, to accelerate education and availability of OpenStack talent in the market.

The rise of containers presented an important strategic opportunity to rally support in our community and build a strong story. Based on guidance from users and the analyst community, we were able to articulate the value of OpenStack as an integration engine—one platform for VMs, containers and bare metal—as well as a path to production for new technologies as they emerge. We introduced Magnum with a live demo at the Vancouver Summit and built a relationship with Google to secure a Foundation sponsorship and press release to align OpenStack with the Kubernetes community. We also started tapping into the telecom market, building a strong relationship with OPNFV and landing some important features in OpenStack Nova and Neutron and even emerging projects to support the NFV use case.

The Summits continue to be a hallmark event for the Foundation, bringing together more users than ever from around the world to collaborate and ultimately derive adoption. OpenStack Summits in Vancouver and Tokyo both exceeded attendance and revenue projections with 6,000 attendees in Vancouver and 5,000 in Tokyo. These summits featured critical new content like the Containers and Telco Days, and our relentless pursuit of users allowed us to showcase strong case studies, including TD Bank, Walmart, FICO, Office of the President of Mexico, Comcast, eBay, JPL, DigitalFilm Tree, Yahoo! Japan, Lithium Technologies, Ancestry.com, NTT and SKT in the Summit keynotes and sessions.

Following the Vancouver Summit, Forrester analyst Lauren Nelson penned the report, "OpenStack is Ready – Are You?" which marked a shift in the analyst community perspective. While presenting at the
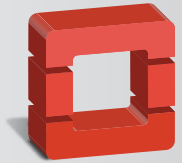
Gartner Catalyst conference, analyst Alan Waite supported our integration engine messaging by saying the best candidate for a cross-platform API is OpenStack.

The technical committee reorganized the structure for managing new upstream projects, encouraging more rapid and broad innovation in our developer community. As a result, it became important to communicate that OpenStack is made up of core infrastructure services surrounded by optional capabilities such as container integration, big data, orchestration and more. To help navigate the upstream landscape, we created the Project Navigator, which aggregates the "tags" produced by the Technical Committee and User Committee to provide more visibility into each project.

One other big win in 2015 was finally resolving our IRS tax exempt status. After 3 years, many hours, hundreds of pages of documentation, and two visits to IRS offices on each coast we were able to prove that the work of our community and Foundation are indeed tax exempt purposes. This sets us up to invest even more in the community as already evidenced by our aggressive 2016 budget the Board approved in Tokyo.

Finally, 2015 saw us grow our team, adding even more great talent, including a new ecosystem manager, internal systems development resources, a cross-project community development coordinator, marketing manager, an application community manager, and additional events team members to help with the growing summits and global community events. We are very encouraged by the caliber of talent we've been able to attract this year, which speaks to the strong reputation the Foundation team has established in the global community.

Heading into 2016, I see important opportunities for our community and staff to focus on user experience and grow the potential addressable market for OpenStack. As data center and application technologies continue to move faster, many organizations are operating in a world that is increasingly challenging on the IT front. Gartner refers to this as bi-modal IT, where there are legacy platforms and agile new cloud native technologies. OpenStack is uniquely positioned to help these organizations adopt new technologies successfully, and we are already seeing successful users who are traveling this road. This highlights the need for us to improve our application developer story and continue developing our containers story.

 We have ambitious goals to build a global footprint of interoperable public and private clouds, supporting the most important technologies that organizations are relying on, but with increased investment across the community, the team is energized to take on these challenges and more in 2016.
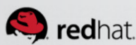
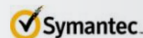**Jonathan Bryce**
Executive Director
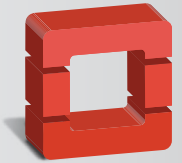
PLATINUM & GOLD MEMBERS

Thank you to the Platinum and Gold Members of the OpenStack Foundation, who help direct the community, contribute to the software platform and fund important activities to ensure sustainable growth:

Platinum Members

at&t   ubuntu   Hewlett Packard Enterprise   IBM   (intel)   rackspace

redhat   SUSE

Gold Members

aptira   台灣雲端運算產業協會 Cloud Computing Association in Taiwan   CISCO   DELL   DreamHost   EMC²

ERICSSON   FUJITSU   HITACHI Inspire the Next   HUAWEI   inwinSTACK   JUNIPER NETWORKS

MIRANTIS   NEC   NetApp   Odin   Symantec   YAHOO!
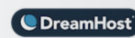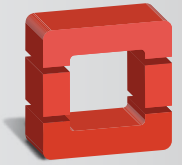
NEW CORPORATE SPONSORS IN 2015

九州云 99cloud.net

StratoGen

Bright Computing

accenture
High performance. Delivered.

Z. Converter
Cloud Migration

Google Cloud Platform

海云捷迅 AWCLOUD

cleversafe®

PLATFORM9

Linux Academy

OPEN SOURCE STORAGE

VERITAS

PENGUIN COMPUTING

Cloud 云途腾

devoteam
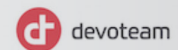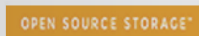
ITOCHU Techno-Solutions Corporation

NETRONOME

APPFORMIX

EPLEXITY

NTT Communications

midokura

MPSTOR

RackN
Ready, State, Go!

cloudup

Skytap

PLUMgrid

akanda

QLOGIC®

LINUX FOUNDATION

cloudbase solutions

KeyTone Cloud

STRATOSCALE

电科华云

SanDisk®

FIREFLY

FiberHome

Tintri

COMPONENT SOFT

CITRIX

TALLIGENT
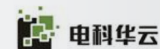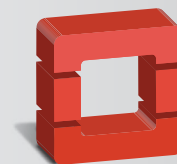
COMMUNITY STATS & HIGHLIGHTS

Individual Members: 34,106
Countries Represented: 177
Global User Groups: 101
Top 10 Countries by Membership:

United States	France
India	Japan
China	Brazil
United Kingdom	Russian Federation
Canada	Germany

Investment in Diversity Programs:
With the goal of attracting new and diverse community members around the world, the Foundation increased investment in diversity programs in 2015.

Outreachy
Outreachy helps people from underrepresented groups get involved by matching interns with established mentors working in open source communities. It has been an important program for OpenStack, resulting in several interns being hired by OpenStack companies and continuing to contribute to the community. In 2015, the OpenStack Foundation sponsored 7 interns for a total of $45,500, up from 4 interns at $26,000 in 2014.

Travel Support
The OpenStack Foundation helps key contributors who are unable to secure sponsorship to attend the Summit by subsidizing or covering the costs for travel and accommodations. The Travel Support Program was able to cover the following in 2015, an increase from 41 total people and $94,000 USD in 2014:

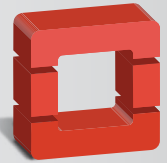Vancouver: 28 people from 14 countries, $60,000 USD invested
Tokyo: 30 people from 15 countries, $65,000 USD invested

Upstream University & Women of OpenStack Programs
At each Summit, the Foundation supports the Women of OpenStack groups networking event and working session. The Foundation also helps organize and support Upstream University training, conducted the two days prior to each Summit.
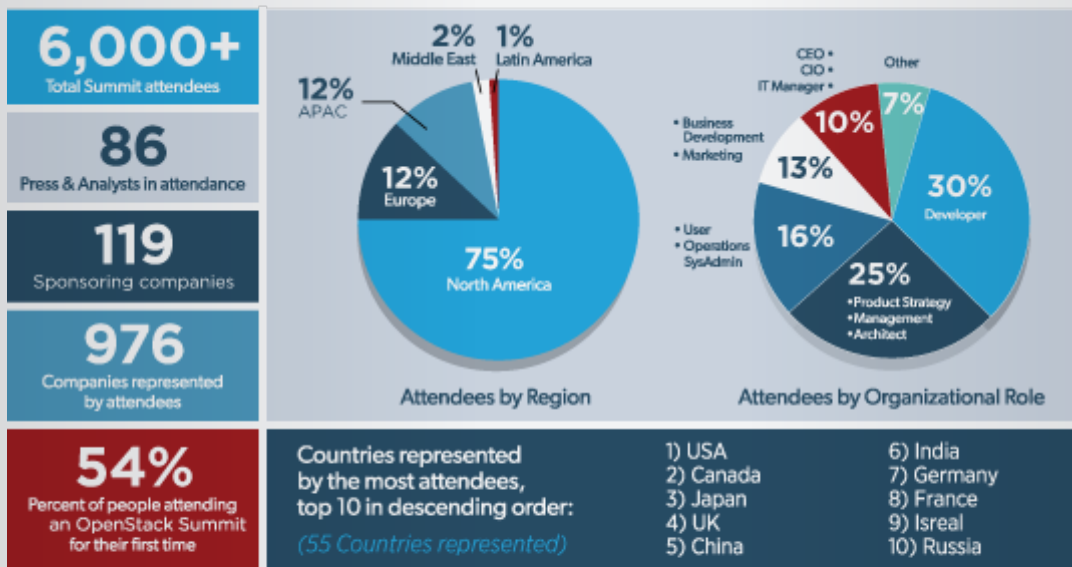
Global User Group Celebrations
Each year, user groups around the world celebrate the anniversary of OpenStack in July. This year, 44 User Groups gathered across 29 different countries and 13 different US cities, based on a $22,000 USD investment from the Foundation.
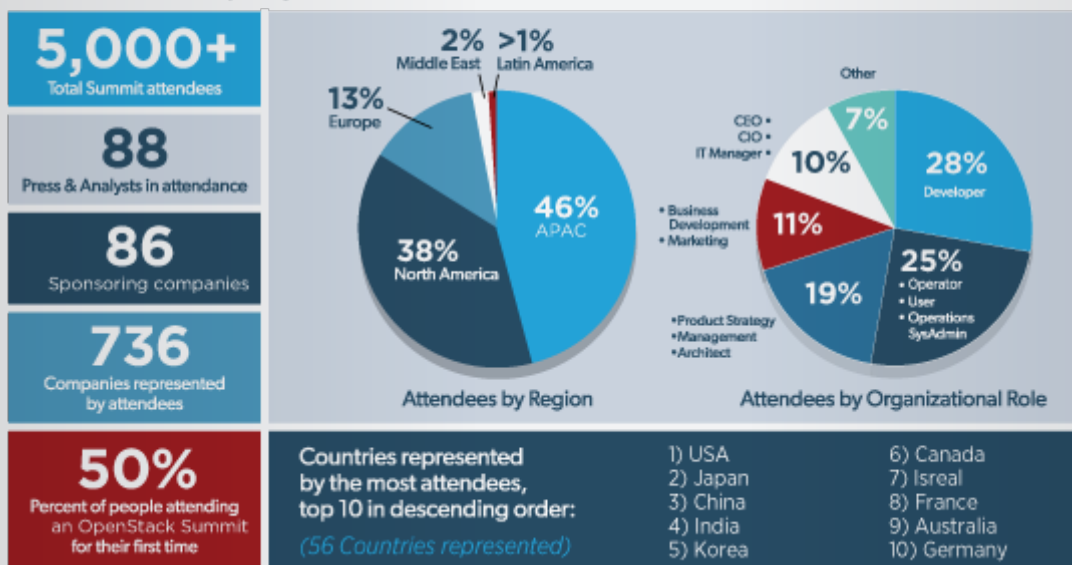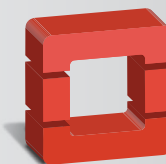
OPENSTACK SUMMIT HIGHLIGHTS

May 2015 Vancouver OpenStack Summit Metrics:

6,000+
Total Summit attendees

86
Press & Analysts in attendance

119
Sponsoring companies

976
Companies represented by attendees

54%
Percent of people attending an OpenStack Summit for their first time

Attendees by Region

- 2% Middle East
- 1% Latin America
- 12% APAC
- 12% Europe
- 75% North America

Attendees by Organizational Role

- CEO • CIO • IT Manager • 10%
- Other 7%
- Business Development • Marketing 13%
- Developer 30%
- User • Operations SysAdmin 16%
- Product Strategy • Management • Architect 25%

Countries represented by the most attendees, top 10 in descending order:

(55 Countries represented)

1) USA
2) Canada
3) Japan
4) UK
5) China
6) India
7) Germany
8) France
9) Isreal
10) Russia

October 2015 Tokyo OpenStack Summit Metrics:

5,000+
Total Summit attendees

88
Press & Analysts in attendance

86
Sponsoring companies

736
Companies represented by attendees

50%
Percent of people attending an OpenStack Summit for their first time

Attendees by Region

- 2% Middle East
- >1% Latin America
- 13% Europe
- 46% APAC
- 38% North America

Attendees by Organizational Role

- Other 7%
- CEO • CIO • IT Manager • 10%
- Business Development • Marketing 11%
- Developer 28%
- Product Strategy • Management • Architect 19%
- Operator • User • Operations SysAdmin 25%

Countries represented by the most attendees, top 10 in descending order:

(56 Countries represented)

1) USA
2) Japan
3) China
4) India
5) Korea
6) Canada
7) Isreal
8) France
9) Australia
10) Germany

COMMUNITY INSIGHTS

Foundation Engineering Team

Over the course of the year we grew from 179 to 554 official OpenStack git repositories. This significant increase is primarily linked to new project teams being added under the big tent (especially packaging teams which tend to use a very large number of small repositories). It is also partly due to the facilitation of creation of new repositories within accepted project teams (teams are now more free to organize their code however they see fit).

During 2015, 111,246 changes were merged into those official git repositories. In service of that, our official test infrastructure ran 5,515,693 jobs storing and analyzing 19 terabytes of raw test log data. In order to support that load in the future, over the course of the year we enabled two new public clouds as infrastructure test resources providers: OVH and IBM Blue Box. More are expected to be enabled in 2016.

Looking solely at the main services (Keystone, Nova, Cinder, Swift, Glance, Neutron), development activity increased in 2015 to reach 15,953 commits, a 12% increase compared to 2014. openstack-dev ML traffic was stable at 28,016 messages (a 1.1% drop compared to 2014).

From a development community standpoint, there was a clear increase in diversity of participation, with 192 different companies getting involved (a 15% increase from 2014) and 2,517 contributions from unaffiliated contributors (a 78% increase from 2014). As far as recruitment of new developers goes, 1,323 new contributors joined us in 2015, compared to 1,165 new contributors in 2014 (a 13% increase). Our developer retention rate is mostly stable: in 2015 we retained 60% of the 2014 contributors (in 2014 we retained 63% of the 2013 contributors).
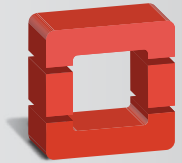
Operators & User Community
Tom Fifield, User Community Manager

2015 was a year of great growth for the ops community, with many metrics doubling over the past year. The more than 2,500 members of the openstack-operators mailing list posted approximately twice the number of messages. The mid-cycle ops meetup were attended by 125 and 250 respectively, and across all events ops took time off running their clouds to help improve OpenStack software and share best practices with their peers.

However, it's not just the numbers that are impressive. If we look at the impact the community is having, we can see so many areas where ops group, collaborate and improve both the OpenStack software and the ease with which it can be run. A good example is the OSOps repository: it contains complete example configs, 20 different monitoring plugins, and dozens of useful scripts for administering an OpenStack cloud. Another must be the Hypervisor Tuning Guide, an idea that came out of a collation of etherpads from the meetups. In 2015 the community also solved some major issues. For example, the RabbitMQ keepalive problem that plagued many sizable deployments was fixed in the OpenStack Liberty release. Many good stories were heard about the live upgrade functionality in recent releases of nova - something that was discussed in virtually every ops meetup from the beginning.

Interestingly, OpenStack Operators are not just throwing ideas at developers unidirectionally - many are adopting techniques learned from developers into their own workflows. From the Tokyo summit keynote presenter who offered Q&A via github, to the increasing number of folks who use gerrit to code review their configuration management scripts, it seems to be a mutually beneficial relationship. Accordingly, in 2015 we saw more users contributing to OpenStack than ever before, with about 100 different organisations submitting a patch.

On the global front, the number of OpenStack user groups surpassed 100 for the first time this year, with the newest group in Pakistan, and by our best estimate there are around 50,000 members across the world. Ask OpenStack continues to be a popular place to find solutions for versions past and present - currently offering 12,500 answers. The User Committee's working group-based structure plays host to around a dozen teams, and based on Tokyo summit conversation we can expect to see some exciting expansion here in 2016.

The fledgling application developer community started the year with a bang, producing the "Writing your First OpenStack Application" tutorial for popular SDK libcloud. By December, progress had been made on seven other SDKs, uncovering and fixing many quality issues along the way. Watch this space!
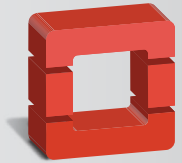
COMMITTEE REPORTS

Technical Committee
Thierry Carrez, Chairman

At the end of 2014 the Technical Committee decided a project structure reform to fix blocking issues within the development community. We were reaching a dead-end with the "integrated release" approach we followed until then. The Technical Committee members ended up spending most of their time considering new projects for incubation and graduation. The "integrated release" was already too large to be reasonably deployed by every OpenStack user, and the set was conflicting with the board "DefCore" efforts around trademarks and interoperability. Finally it was excluding some projects (that were obviously part of the OpenStack community and helping to achieve the OpenStack mission) to be considered full-fledged OpenStack projects. It ultimately resulted in a lack of innovation preventing OpenStack from adopting new technology trends and acting like a true integration engine.

The new approach (dubbed "the big tent") focuses on a community-based definition of what is an OpenStack project: if a project team helps with the completion of the OpenStack Mission and follows the principles and rules of the OpenStack community (the "4 opens"), then its deliverables should be considered OpenStack projects. At the same time, to facilitate navigating amongst all those deliverables, we create a tag taxonomy that helps downstream users figure out the characteristics and status of each project. You can use tags for example to determine if a project is produced by a diverse community or is essentially coming from a single vendor, what release model it uses, if it is supported by the vulnerability management team, if it follows the common feature deprecation policy or supports live upgrades, etc.

Most of 2015 was spent making this new project structure a reality. We made 395 changes to the openstack/governance repository (which tracks OpenStack governance and project policy changes). We went from 22 exclusive "programs" to 50 "project teams" over the course of the year. We defined 16 tags to help navigating all those different things the OpenStack upstream development community is producing.

Other efforts included leading the creation of the Project Team Guide, which documents the "OpenStack Way" of doing things. We also clarified under which conditions new programming languages may be accepted in OpenStack projects in the future, as well as IRC channel and release naming policies. Overall, we moved a lot of content that was previously informally maintained in the wiki to proper peer-reviewed reference documentation.

While this was playing, 2015 saw the timely completion of two OpenStack development cycles: Kilo in April and Liberty in October. The Committee was significantly renewed during the elections: Dean Troyer, Flavio Percoco, Kyle Mestery, and Robert Collins joined the group, while we bid farewell to Devananda van der Veen, Vish Ishaya, Michael Still and John Griffith.

2015 is now behind us, and I definitely look forward the new challenges that 2016 will bring to us!
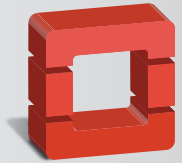
DefCore Committee
Egle Sigler, Co-chair (2014-2016 term)
Rob Hirschfeld Co-chair (2013-2015 term)

This was a remarkable year for DefCore as we transitioned from process design into implementation. The year started out by the board's approval of DefCore process document and ended by having four guidelines for 2015 year and multiple vendors using these guidelines to get certified. Based on issues exposed, the overall process appears to be working to enforce interoperability; however, there are significant gaps to fill for the process to become sustainable.

The next stage of growth for DefCore needs to be broader support by community leaders and customers. Unless OpenStack users demand logo compliance from vendors, closing the technical issues alone will not ensure success. Consequently, driving awareness and benefits from DefCore and Interoperability should be Foundation and Board priorities.

ACCOMPLISHMENTS:

- Passed by-laws amendment enabling DefCore process

- Board approved DefCore process document (2015A)

- Approved four DefCore guidelines (2016 will have only 2)

- Added Foundation staff as secretary (Chris Hoge)

- 30 initial vendors passed but with heavily flagged guidelines

- Moved into regular cadence (twice a year) with minimally flagged guidelines

- Well attended and vendor-diverse meetings and mid-cycle meetups (still missing some key participants and users).

- Expanding advisory list to include networking and other capabilities

- "Is Linux guest required" Oracle controversy (good thing - people are discussing)

- PTLs are getting involved in the DefCore discussions and help resolve issues

CHALLENGES:

- Need more data - integration with RefStack and submitting full test results rather than scrubbed down version

- Foundation process is still not automated

- Need for independent & more frequence validation of test results

- Same standards for public clouds & distributions undermines interoperability

- Lack of participation by key contributors (including some Platinum and Gold members)
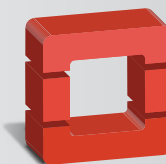
- Lack of participation from users and operators [chair's note: it's an open question if DefCore is relevant to established scale private cloud users]

- Lack of test depth: tests were not written with DefCore in mind

- Lack of real interop tests

- Slow speed that new tests are surfaced in community around core APIs

- A limited number of criteria seem to carry most of the selection wait and those end up being too subjective.

- Perception that private clouds are unwilling to share RefStack data

RANKED 2016 PRIORITIES

- Build awareness of why DefCore is important for OpenStack. Specifically, focus on users, applications and growing ecosystem. "Written for OpenStack" applications should be a reality.

- Closing OpenStack Distributions vs Hosted OpenStack cloud disparity.

- Adding tests (possibly dedicated DefCore Tempest ones if resources are available) to address lack of interoperability driven tests. This allow DefCore to drive better tests and better test coverage for existing and future capabilities.

- Test results data collection (RefStack).

Diversity Work Group
Egle Sigler, Imad Sousou, Kavit Munshi

"Diversity: the art of thinking independently together." This quote from entrepreneur Malcom Forbes succinctly portrays the Diversity work group efforts to help the community foster an inclusive and welcoming place for all people to collaborate and drive innovation and design cutting-edge data center capabilities that provide solutions for our most pressing challenges.

Created by the Board in October 2015, this new working group is actively engaged in sponsoring and creating programs that encourage diversity by identifying and removing the barriers that keep us from having a diverse, thriving community. The programs recommended by this working group will apply to the Board, OpenStack Foundation, Technical Committee, PTLs, Developers and the entire OpenStack Community.

Diversity is defined as all the ways people differ from one another including race, color, religion, gender identity and expression, national origin, language, ancestry, age, disability, medical condition, genetic information, military and veteran status, marital status, sexual orientation and other aspects. This includes elements such as personal background, experiences, education, thinking processes, approaches to problem solving and experiences. The differences range from subtle nuances to very clear points of difference – this is the nature of diversity.
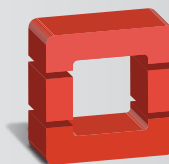
Understanding the unique barriers for of all these categories is daunting, but the 2015 work efforts, including surveys and membership analysis gave us a good kick start. We've focused in on our 2016 work plan engaging on several efforts including working with the Foundation to update the code of conduct, increase the ease of on-boarding new community members, and reaching out. Participation and contributions are open to the community. Come join us and help us in our efforts to think independently together.

Product Work Group
Shamail Tahir; Yih Leong, Sun

The Product Working Group officially kicked off in February 2015 as a result of a birds of a feather session that happened at the Paris Summit (November 2014). The group has (50+) members from over 15 companies that, collectively, contributed almost 80% of the code for the Liberty release of OpenStack software. The purpose of this group is to reduce barriers to adoption and increase the feedback loop between developers, operators, and end-users of OpenStack software. To accomplish these goals, the group has established three objectives as a part of its charter:

- Increase the voice of operators, end-users, and market segments by aggregating requirements in the form of user stories

- Simplify cross-project, cross-release capability definition, implementation, and tracking by developing a transparent, repeatable, process

- Build a multi-release and community generated roadmap for OpenStack software in conjunction with the OpenStack Foundation

In 2015, with significant help from the Enterprise and Telco Working Groups, we have identified the first set of user stories that we will focus on and these include capabilities such as rolling upgrades, lifecycle management for instances, capacity/quota management, and onboarding legacy apps/infrastructure. The team has made significant progress on defining the scope for rolling upgrades by conducting a gaps analysis and is working closely with Mike Perez (Cross-Project Developer Coordinator, OpenStack Foundation) to create a workflow towards implementation. The team has also developed two, community-generated, multi-release roadmaps (Vancouver Summit and Tokyo Summit) and the latest version is available for download at openstack.org/roadmap.

Product Working Group members also participated at the Operator's Summit in Palo Alto and generated an additional 4 user stories. The total number of user stories in the current backlog is approximately 26 and the group will periodically review the user stories and re-prioritize based on community and end-user needs. The Product Working Group membership consists of product managers, technologists, developers, operators, and end-users. The team is collaborating with the OpenStack Board of Directors, Technical Committee, User Committee, Cross-Project teams, and Project teams to ensure that we continue to make progress against our stated objectives.
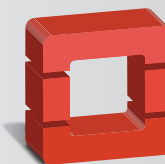
Legal Affairs Committee
Nissa Strottman, Eileen Evans (Board Liason)

In 2015, the Legal Affairs Committee reviewed and commented on various Foundation matters. These included: the DefCore discussions and process; the discussions around the use of contributor license agreements("CLAs") and the DCO; and a proposal around the process for inclusion of OpenStack packages in the Open Invention Network's definition of "Linux System."

New Member Committee
Heidi Bretz, Director of Business Development

We have continued to see strong interest from companies wanting to support the OpenStack Foundation's efforts in a significant way through Gold Membership. The OpenStack New Membership Committee has created a rigorous process to help companies prepare successful membership applications. This process has led to successful membership applications by Fujitsu, InWinStack and Odin in 2015, further expanding the geographic diversity and industry representation among our Members. The process also helps companies with less complete qualifications identify areas where they can direct their energies to support a successful application in the future. In addition, the committee is modifying the selection criteria slightly to allow OpenStack Superusers to meet the gating criteria for membership. Additional potential members including Superusers are preparing to apply in 2016.
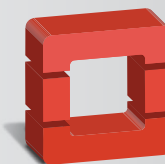
User Committee
Subbu Allamaraju, Shilla Saebi, Jonathan Proulx

The User Committee had a productive 2015, levels of activity peaking at the Tokyo summit with a stellar survey report, a member change, and the significant decision to start looking to expand the committee. The Committee and the entire community would like to thank founding member Tim Bell for his years of tireless service and warmly welcome Shilla Saebi, who joins Jon Proulx and Subbu Allamaraju.

As noted in Superuser, "In OpenStack's sixth and most comprehensive user survey, OpenStack showed its increasing maturity, with 60 percent of deployments in production compared to just 32 percent reported in our survey less than two years ago". Thanks to the efforts of committee members; Heidi Joy and the Foundation staff; and a dedicated independent data analyst, the 2H 2015 survey offered a deeper insight (over 30 pages of report!) into the use of OpenStack than ever before. 2016 will bring further changes, looking to offer more data to the community in an improved dynamic format, in addition to the regular careful attention to question updates. The formation of a working group to assist is anticipated.

Though the User Committee administers more than a dozen popular working groups, it was recognised that more transparency and visibility of its work was desirable. In 2015, regular monthly meetings, held on IRC, were commenced and there are plans to extend these to have an additional meeting to cater to the needs of the APAC timezones.

The Committee was excited to see the demand for ops meetups increase substantially in 2015, and particularly the mailing list thread that led to the planning of the inaugural event outside of USA. There were robust discussions regarding the future of these events and particularly how they should be managed in a global community. Those discussions, and increasing registration figures (300!) indicate a good rapport between the community and the event's objectives, which have recently been bolstered by the post-processing work of the Product Working Group.

Throughout 2016, the user committee is seeking active involvement from volunteers to assist with the running of the committee and, shaping its eventual increased size and guiding the working group-based structure. A strong focus will be ensuring that the committee fairly represents those developing on top of OpenStack, particularly through the efforts of the Application Ecosystem Working Group.

As always, please get in touch directly, join the monthly meeting or post on the user committee mailing list!

Enterprise Working Group
Yih Leong, Sun
(p/s: Win The Enterprise WG was renamed to Enterprise WG since Vancouver Summit)

The mission of Enterprise WG is to identify and remove barriers to adopt and deploy OpenStack for Enterprise. This working group was previously organized as a few sub-teams with separate weekly meeting: (i) Deployment; (ii) Cattle & Pets; (iii) ISV Interop; (iv) Business & Marketing. In Vancouver summit, the team renamed "Win The Enterprise WG" to "Enterprise WG". After the Tokyo Summit (Nov 2015), the team restructured and streamlined the operation into one integrated team. From Nov 2015 onward, the team adopted a rotating leadership model for each release cycle. Carol Barrett (Intel) and Megan Rossetti (Walmart) now co-lead the current Mitaka cycle. Today this WG has received strong support and participation from various companies (Intel, EMC, IBM, HP, Rackspace, Red Hat, SUSE, Canonical, Hitachi, SAP, Oracle, Huawei, Midokura, Comcast, Walmart, T-Systems, etc.). Since 2015, the team has achieved many accomplishments:

- Identified more than 20 potential user stories. Prioritized and developed 4 user stories (Rolling Upgrades; Onboarding Legacy Apps; Lifecycle Management for Instances; Capacity Management) and transitioned them into the Product WG for execution.

- Collected feedback from various operators and vendors' customers and identified multiple areas that remain as gaps for Enterprise adoption (Upgrades, Logging, Monitoring, Enterprise App Developers, Asset Management, ISV integration)

- Developed plan for engaging with ISVs and created relevant collateral to promote an understanding of OpenStack and the cloud market

- Published booklet "OpenStack: A Business Perspective" which is highlighted on OpenStack website (openstack.org/enterprise). This booklet generally promotes "Why choose OpenStack for Enterprise". The booklet was downloaded 1,400 unique times from the OpenStack website in 2015, 350 copies were distributed at the Gartner Symposium in October, and 50 sent to each contributor for their marketing efforts.

- Presented various talks/sessions in the OpenStack Summits and received positive feedback.
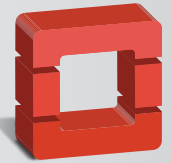
In 2016, the team will continue support OpenStack Foundation to bridge the gap for Enterprise adoption. Multiple activities are planned for Mitaka cycle:

- Partnering with Product WG and help to realize user stories that reduce barriers to adopt/deploy/operate OpenStack for Enterprises

- Partnering with App Ecosystem WG and build materials that will increase Enterprise App Developer adoption.

- Working in tandem with the OpenStack Foundation on an ISV enablement program and related announcements

- Producing new customer testimonials and whitepapers to highlight enterprises success stories with OpenStack software

- Producing Workload Reference Architectures for deploying various type of workloads that run on top of OpenStack-powered clouds.

- Producing another booklet, using the collective experiences of the team, to promote understanding of "How to Implement OpenStack for Enterprise".

- Creating new mentoring system to help new members to participate in WG activities.

Jointly contributed by Yih Leong Sun, Shamail Tahir, Megan Rossetti, Kathy Cacciatore

Tokyo Travel Support Recipients
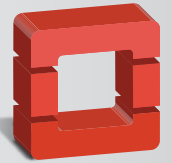
THANK YOU TO THE OPENSTACK COMMUNITY

Women of OpenStack

Tokyo Keynote

Vancouver Expo

OpenStack 5th Year Birthday Party