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Create Great CNCF User-Base from Lessons learned from other open source Communities.

Krishna Kumar, Cloud Architect, *Huawei* & Lee Calcote, Senior Director, SolarWinds



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Contents

- CNCF Communities
- Other open source community Approaches
- Community Best Practices
- What should happen in the CNCF communities going forward?



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Does consistency grow community? trust?

Lee initiated a
BoF at last
KubeCon2016
Seattle ([link](#))

Let us build on
top of that.....

Formats

- Talk & Demo
- Hands-on Tutorial
- Multiple speakers
- Multi-part series
- Panel

Date/Time

- Length of meetup
 - sweet spot?
- Weekday vs weekend

Venue

- Freedom from benefactor?
- Location / traffic / ease of access

@lcalcote





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CNCF Communities

Projects

- [Kubernetes](#)
- [Prometheus](#)
- [Fluentd](#)
- [OpenTracing](#)
- [Linkerd](#)
- [CoreDNS](#)
- [GRPC](#)
- [Cotainerd](#)
- [Rkt](#)
- Future Projects...

Major Contribution

- Github
- Weekly SIG
- [CNCF.io](#) – web site
- CNCF TOC (Technical Oversees Committee)
- Governing Board
- Leadership/Executives

Community

- Slack Channels
- User Mailing lists
- Meetup
- Conferences
- Road Shows
- Webinars
- Newsletter
- Social(Twitter, etc.)



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How to Contribute

- ✓ Provide real business need, design and solve problem, write code for feature/patch, review code, commit code.
 - ✓ Create Reports/documentation, Create Feature Requests, Mailing list support by answer questions.
 - ✓ Provide hardware/setup – Help build test, CI/CD, test scripts.
 - ✓ Promote the Project – Write blogs, FAQs,
 - ✓ Organize Community events or participate.
- *Be humble! Have low expectation! Ready to accept the Rejection! Keep moving....*



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Contributor Levels in K8S

- *API Reviewer*
 - *API Approver*
 - *Project Approvers*
 - *Maintainers*
 - *Component Owner*
 - *Approver*
 - *Reviewer*
 - *Org Member*
 - *Active Contributor*
 - *New Contributor*
- Each step after Active contributor is defined as 3 month timeline, with active work done at that role.
<https://github.com/kubernetes/community/blob/master/governance.md>
 - Each advanced level members can help new comers get in to the system quick and help start contributing.
 - Make your community with combinations various levels of contributors.



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Apache Community

- Apache Mentor Program
 - <http://community.apache.org/mentoringprogramme.html>
- Project Site Index – 300+ project initiative and statistics
 - <https://projects.apache.org/>
- Speaker List, Presentations & Press Kit
 - <https://community.apache.org/speakers/speakers.html>
- ApacheCon – All materials in one place (Past/Future)
 - <https://www.apache.org/foundation/conferences.html>
- Innovation Lab – Experiment with new ideas
 - <http://labs.apache.org/>



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Docker community

- Conversations - 5 minute with Captains
 - <https://blog.docker.com/2016/08/5-minutes-docker-captains/>
- Docker Birth Day celebration attracts lots of crowd!
 - <https://blog.docker.com/tag/docker-birthday/>
- Community News
 - Docker Weekly, Engineering, Curated - <https://blog.docker.com/docker-weekly-archives/>
- DockerCon Hands-on Labs
 - <https://blog.docker.com/2017/03/dockercon-2017-hands-labs/>
- Convince your BOSS to Join DockerCon – Nice writeup!
 - <http://2017.dockercon.com/wp-content/uploads/sites/3/2017/01/Convince-your-boss-2017-Austin.pdf>



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Eclipse community

- Very large resource collections at single access points
 - <http://www.eclipse.org/community/>
 - [http://wiki.eclipse.org/Eclipse Articles, Tutorials, Demos, Books, and More](http://wiki.eclipse.org/Eclipse_Articles,_Tutorials,_Demos,_Books,_and_More)
- Campus Ambassador Program & Eclipse University
 - <http://wiki.eclipse.org/Campus>
- Multiple Language support Page
 - [http://wiki.eclipse.org/Main Page CN](http://wiki.eclipse.org/Main_Page_CN)
- Market Place - 24,608,034 solutions installed directly from Eclipse!
 - <http://marketplace.eclipse.org/>



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Cloud Foundry Foundation community

- DOJO – The Pair Programming Model
 - <https://www.cloudfoundry.org/the-cloud-foundry-way/>
- Research – (Container Report 2016 & Developer Gap 2016)
 - <https://www.cloudfoundry.org/research/>
- Cloud Foundry Certified Provider
 - <https://www.cloudfoundry.org/certified-providers/>
- Case Studies – Well described
 - <https://www.cloudfoundry.org/category/case-studies/>



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Open Stack Community

- Open Stack Ambassador Community Report – Austin 2016

The report contains: What is the size of the community, Global and regional trends, Introduce new groups, leaders, Updates on speaker bureau, recommended practices for starting and running communities, Status update on official groups, Process, Updates on user groups since Tokyo, Groups portal, Overview, Results, Welcome pack and Open Stack shop, Q&A

<https://www.openstack.org/videos/tokyo-2015/ambassador-community-report>

- Open Stack Hackathons

- <https://www.openstack.org/community/events/openstackhackathons>

- Open Stack User Survey

- <https://www.openstack.org/user-survey/survey-2017/landing?BackURL=/user-survey/survey-2017/>

- User Committee – consolidate user requirements & work with user groups.

- <https://www.openstack.org/foundation/user-committee/>

- User Group Portal

- <https://groups.openstack.org/>



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ODL, ONOS & OpenNFV Community

- ODL Community Labs (Ericsson & Huawei)
 - <https://www.opendaylight.org/community-labs>
- ODL Use cases
 - <https://www.opendaylight.org/use-cases>
- ONOS & OpenNFV Combined Community Page
 - <https://wiki.opnfv.org/display/COM/Onos>
- OpenStack, ODL & OP-NFV together
 - <https://www.openstack.org/summit/openstack-paris-summit-2014/session-videos/presentation/the-open-nfv-organization-neutron-and-open-daylight>



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Linux Foundation Community

- Networking Events
 - <https://www.linuxfoundation.org/about/community-giving/open-source-events>
- Community Leadership Summit
 - <http://www.communityleadershipsummit.com/>
- Scholarship / Training / Diversity Programs
 - <https://www.linuxfoundation.org/about/diversity>
- Community infrastructure
 - <https://www.linuxfoundation.org/about/community-giving/infrastructure>



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Best Practices .. Cont...

Meetups

- Organize Regularly – Most important **get the right speaker & subject.**
- Target audience - beginners and intermediate. Timings, format and locations can vary.
- Combined Meetup with other groups like Devops, Docker, Mesos, Azure, AWS, Google Cloud.





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Best Practices .. Cont...

Sponsors

- CNCF will reimburse \$250
<https://github.com/cncf/ambassadors/blob/master/Meetup%20Reimbursement%20Report%20-%20CNCF.pdf>
- Your own company
 - Why CNCF Meetup?
- Other Vendors
 - Why would they sponsor?



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Best Practices .. Cont...

Speakers

- CNCF Ambassadors
 - <https://cloud-native.slack.com/messages/G1Q21HH32/> & <https://www.cncf.io/about/ambassadors/>
- Docker Captains
 - <https://www.docker.com/community/docker-captains>
- Open Stack Ambassadors
 - <https://groups.openstack.org/ambassador-program>
- Apache ASF, PMC, Committers List
 - <http://people.apache.org/committers-by-project.html> & <https://community.apache.org/speakers/>
- Other Leaders
 - Industry relations, Linux Foundations, LinkedIn, Other conferences/events, university collaborations, etc.



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Best Practices .. Cont...

Test Bed

- Cluster
 - <https://www.cncf.io/cluster/> & <https://github.com/cncf/cluster>
 - Join the Cluster SIG - <https://github.com/kubernetes/community/blob/master/sig-list.md>
- Submit & Resolve Cluster Issues.
- A Getting started guide would be really helpful.
- A Dash board showing cluster usage would be helpful?
- Apart from Intel, can more companies get involve in Hardware sharing?
- How to share the clusters with Universities – Who can help in support?



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Best Practices .. Cont...

Certification

- Training Programs

- <https://www.cncf.io/tag/certification/>
- Course Kubernetes Fundamentals (LFS258) for \$99 now.
- Ambassadors can really step in and help develop new courses!
- <https://www.cncf.io/announcement/2016/11/08/cloud-native-computing-foundation-launches-certification-training-managed-service-provider-program-kubernetes/>

- BETA Certifications

- You can join the SIG to get more details - cncf-kubernescertwg-request@lists.cncf.io
- Just announced in this KubeCon Exam BETA is coming in May (Kubernetes Certified Administrator Exam) <https://github.com/cncf/curriculum>



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Best Practices .. Cont...

Equal Opportunity:

Sam Ramji

VP Google & Former CEO Cloud Foundry Foundation



Sam Ramji @sramji · Mar 10

I love our community guidelines @googlecloud #GoogleNext17

each of us has the right to enjoy our experience without fear of harassment, discrimination, or condescension, whether blatant or via micro-aggressions.

If you hear or see something, say something. Harassment is not tolerated, and you are empowered to politely engage when you or others are disrespected.

Practice saying "Yes and" to each other. Build on each other's ideas. We all benefit when we create together.

We have a ZERO TOLERANCE POLICY for harassment of any kind, including but not limited to:

- Stalking/following
- Harassing photography or recording
- Deliberate intimidation
- Sustained disruption of talks or other events
- Offensive verbal comments
- Sexual images in public spaces
- Inappropriate physical contact
- Unwelcome sexual or physical attention

In relation to, but not limited to:

- | | |
|---------------------|---------------------|
| Neurodiversity | Sexual orientation |
| Race | Age |
| Color | Body size |
| National origin | Differing abilities |
| Gender | Appearance |
| Gender identity | Religion |
| Gender presentation | Pregnancy |



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Best Practices .. Cont...

Ambassador Report – It may help!

- The community development status – how do we get that? (quarterly/yearly?)
- Feed community pain points back to Technical Oversees Committee (e.g: CNCF TOC - it helps to decide the projects/feature charter)

What about CNCF News Letter?

- Community can make it better? <https://www.cncf.io/newsroom/newsletter/>

KubeCon Weekly by Apprenda

- Apprenda folks doing fantastic job. Anything else can be added? <https://kubeweekly.com/>

Industry Open Source Guidelines adopt to CNCF

- e.g: Google Open Source Guide Best Practices - <https://opensource.guide/>



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Best Practices .. Cont...

Ambassador Session at Major Conferences – Proposal?

- Ambassadors get together and share knowledge
- Ambassador lunch/dinner – casual sharing?
- It helps understand which regions/area how community grows and what are the new techniques employed to promote the projects.



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Discussion:

What should happen in the CNCF communities going forward?

All ideas collected will be published in CNCF blog!



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Thank You