

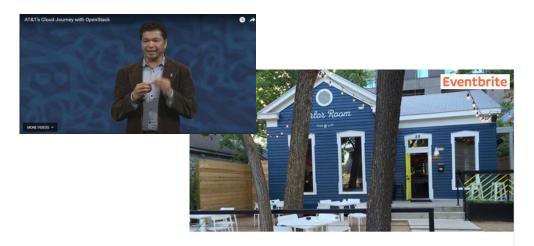
# Large Contributing OpenStack Operators *An OpenStack Working Group*

November 2017

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# openstack

# **LCOO Origins & Founding Vision**



APR Service Providers reception hosted by AT&T

### **Founding Members**



### **OpenStack Austin Summit Gathering to Share the Vision**

#### **Greetings from Texas!**

Our industry is transforming at a remarkable rate due to an increasingly demanding marketplace with a broad set of competitive alternatives. As we all pursue our respective business transformation strategies, we recognized here at AT&T that we can take better advantage of the opportunities available to us to collaborate.

The common fabric for our industry's transformation is cloud, and while we're all racing to solve largely the same business problems, with largely the same collection of technologies, we're not taking advantage of opportunities we can create together. With this in mind, we will be jointly forming a working group focusing on Service Provider's operational and technical needs. Join us in Austin, TX, on Tuesday the 26th, from 5:30 – 7pm, as we bring together leaders throughout our industry to begin mapping a direction that will benefit us all.

Sincerely, Sorabh Saxena

### First Meeting August 2016 OpenStack Days Silicon Valley



You are invited to...

Join like-minded service providers and large operators to contribute to OpenStack.

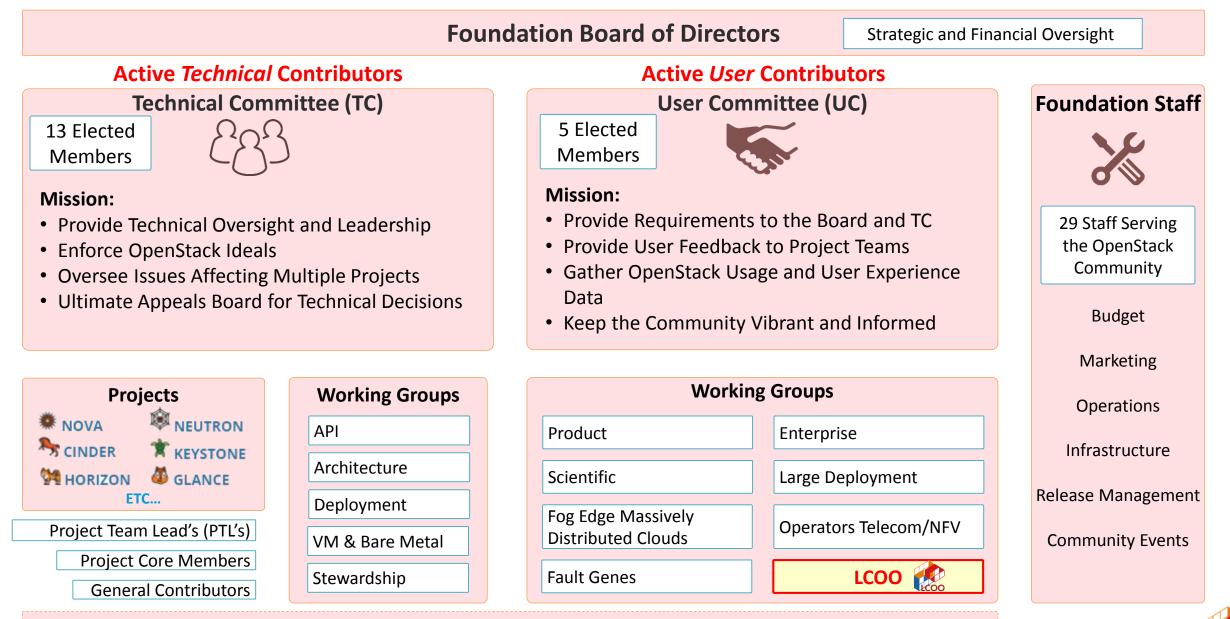
- Share your experiences and thought leadership
- Commit your people into joint development of OpenStack
- Get the efficiency of shared development while meeting business needs
- Make new relationships with other Senior Executives
- Learn more

We hope you'll join us in the late afternoon August 8 the day before OpenStack Silicon Valley. The goal of our first meeting is to establish a preliminary foundation to guide our ongoing collaboration. We benefit from the pure-play, no lock-in, software-only solution so we should be a source of real-time direction and active participation for joint success with OpenStack.

#### Sincerely, Greg Stiegler



# LCOO is an OpenStack Community "Working Group"



https://wiki.openstack.org/wiki/LCOO

**Emerging: Special Interest Groups (SIG's)** - Combinations of both Technical & User Contributors

- Provide a Forum for Intra-Company Sharing/Discussing of OpenStack Priorities, Strategy, Challenges and Successes
- Share Information about Community Happenings
- Provide a Framework to Encourage Intra-Company Collaborations
- Promote the Operational Needs of Large Users
- Encourage Increased Contribution and Platform Enhancement

### **Key Differentiators**

- Membership by Company
- Collaboration by Individuals
- Companies are Contributors
- Private Cloud focused
- Horizontal scaling focus
- Carrier dominated, but not Exclusive





### **LCOO** Member Companies



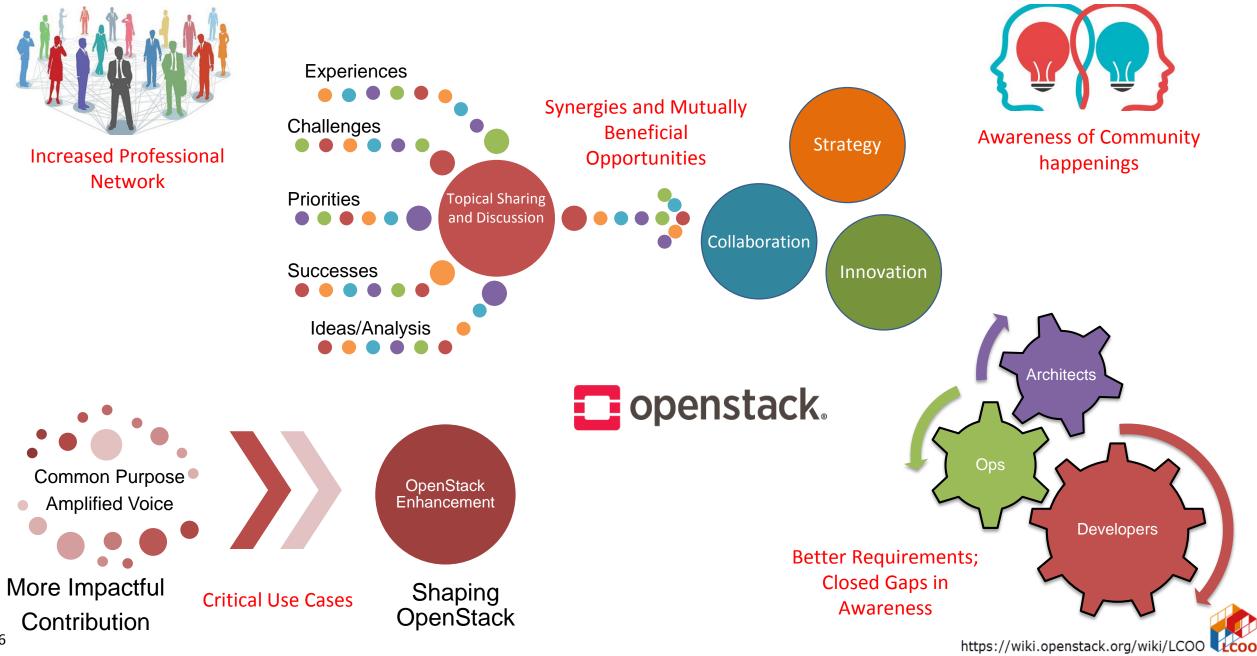








# **Benefits of Active Membership in LCOO**



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# LCOO Roles & Responsibilities

### **Executive Board Members**

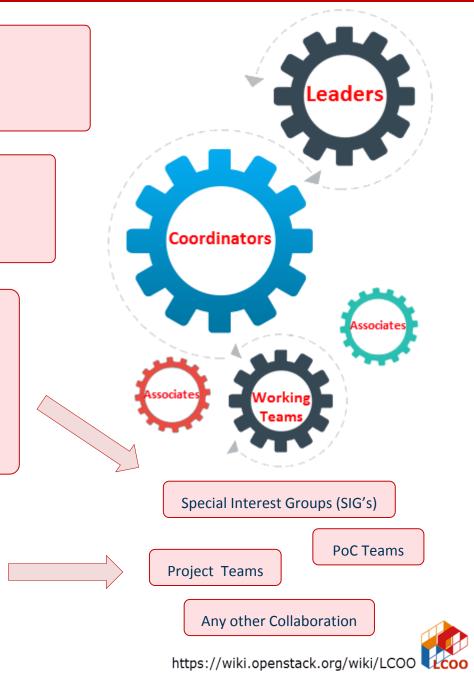
- Executive Leadership representing each Member Company
- Set the overall direction and priorities for LCOO

#### **Coordinators**

- Represent their Member Company in the day to day LCOO functioning
- Shares in the overall coordination of LCOO activities

#### Contributors

- Opportunities for Collaboration emerge organically from LCOO activities resulting in sub-teams spinning off
- Stakeholders / SME's from Member Companies
- Stakeholders / SME's from the Community at large
- Meet Ad Hoc per the needs of the engagement



### Associates/Collaborators

- Attend Topical Meetings when desired / do not present at sessions
- Misc interested, non-member individuals, who attend meetings and/or occasionally participate in 'Contributor' sub-teams

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# LCOO's Revised Meeting Structure and Cadence

### **Topical Sessions**

- Open to ALL
- Monthly for 90 minutes
- Rotate times to accommodate global participation
- Web-Meeting / Video Conference
- Members each present key interests, priorities, strategy, pain points, accomplishments, etc., for the topic
- Q&A and discussion
- Capture synergies and opportunities for collaboration

### **General Meetings**

- Open Meeting attended by LCOO Coordinators
- Bi-weekly for 60 minutes
- Rotate times to accommodate global participation
- Web-Meeting / Video Conference
- Plan/coordinate Topical Sessions
- Status updates for collaborations underway
- Share information / plan for community happenings, etc.

### **Executive Board Meetings**

- Attended by executive leadership from member companies
- Meet 2-4 times per year as needed for ~ 90 minutes
- Telepresence or face to face
- Steer the overall activities and direction of LCOO
- Set common priorities and strategy relevant to LCOO

### Month to Month Meeting Cadence

		General		General		General		General		General		General		General		General		
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			Board		Topical		off		Topical		off		Topical		Board		Topical	



# LCOO Tools: A Key Part of the Framework for Collaboration

In addition to the standard OpenStack tools, LCOO uses the following tools to provide a framework for intra-company collaboration. These tools are all fully Open to everyone.

# **ŸJIRA**

\*JIRA for agile issue tracking and lifecycle management of LCOO projects/collaborations: https://openstack-lcoo.atlassian.net





**GitHub** provides Git source code repositories for our efforts that cannot utilize git.openstack.org: https://github.com/LCOO





**Slack** for convenient instant messaging across our global members and collaborators: https://lcoo.slack.com



# **X** Confluence

\***Confluence** wiki for joint editing and sharing of documents, maintaining meeting notes, action item tracking and more: https://openstack-lcoo.atlassian.net/wiki



# Our Meeting Agenda's and notes are published in Confluence here:

https://openstack-

Icoo.atlassian.net/wiki/pages/viewpage.action?pageId=8847424

Meetings are also announced in advance through the User Committee mail list



\*We are grateful to Atlassian the maker of Jira and Confluence for providing these tools to open-source efforts, free of charge on their cloud



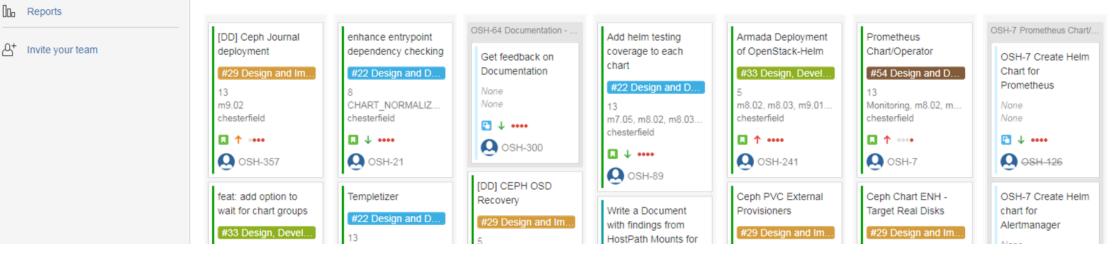
# **LCOO Sessions and Collaborations**

### **Examples of past Topical Sessions**

### **Resulting Successful Project Collaborations**



Remove cLCP CICD QUICK FILTERS: Show Chesterfield Only Remove AIC-Helm Remove AIC-Infra Remove Armada Remove Deckhand Remove Drydock Show more Backlog 19 Analysis/Vetting 18 In Design 35 Ready 32 In Progress / Coding 11 Blocked 35 In-Review 296 Done Kanban board



https://wiki.openstack.org/wiki/LCOO

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# LCOO 2.0 Target Member Profile

### **Characteristics**

- Utilizes OpenStack as a key Technology Enabler
- Embraces the 'open-source philosophy' of openness, collaboration and contribution
- Is committed to driving OpenStack enhancement
- A Large Operator
- Maintains a self-hosted private cloud
- Is Horizontally Scaling / Distributed Cloud focused





# How to Join

### Any individual may participate in LCOO and all are welcome.

# If a *company* wishes to become an 'LCOO Member Company', there are some minimum requirements and procedures.

### **Requirements for Member Companies:**

- Prospective member company must commit:
  - A minimum of one Executive representative to the Executive Board Member Role
  - A minimum of one person to the Coordinator Role
- The Executive representative must commit to the active participation in these roles on behalf of their company

### **Procedure to Join:**

- One or more people from the company actively participate in the General (Coordinator) Meetings and other activities of LCOO
- Participant(s) formally express their company's desire to join during a General Meeting
- The company provides an Executive representative
- The Executive representative attends the next LCOO Executive Board Meeting and is welcomed by the other board members







# LCOO Members are plugged in to the Community

LCOO member company's also contribute to many other Community efforts, representing our member interests and obtaining valuable information to bring back and share.



# LCOO Members Contributed to 70+ OpenStack Modules in Pike

LCOO member companies contributed 5 or more code commits to each of these OpenStack modules for the Pike release

Barbican	ican Horizon Kolla		murano- tempest-plugin	Octavia	python- glanceclient	python- troveclient	Syntribos
Blazar	interop	Kolla-Ansible	Networking- bagpipe	OpenStack- Helm	python- ironicclient	python-zunclient	Tempest
blazar- dashboard	Ironic	Kolla-Kubernetes	Networking- bgpvpn	openstack-helm- addons	python- magnumclient	Rally	Trove
blazar-nova	ironic-inspector	Kuryr- Kubernetes	networking-odl	OpenStack- Manuals	python- masakariclient	Ranger	Valence
Cinder	ironic-lib	Magnum	networking-ovs- dpdk	openstack-user- stories	python- novaclient	releases	Valet
collectd- ceilometer- plugin	ironic-python- agent	Masakari	networking-sfc	osc-lib	python- octaviaclient	requirements	watcher-specs
Devstack	ironic-specs	masakari- monitors	Neutron	oslo.policy	python- openstackclient	rsd-lib	Zun
Glance	Keystone	Mogan	neutron-lib	Patrole	python- openstacksdk	Stackalytics	
Gluon	keystone-specs	Murano	Nova	project-config	python-rsdclient	Storlets	
Grenade	keystonemiddle ware	murano- dashboard	nova-specs	python- blazarclient	python- tricircleclient	Swift	

Source: Stackalytics.com

## LCOO: Where to Find Us at the Summit

## **LCOO Birds of a Feather Session**

### Monday, 11:35 - 12:15, Level 2 - C2.4

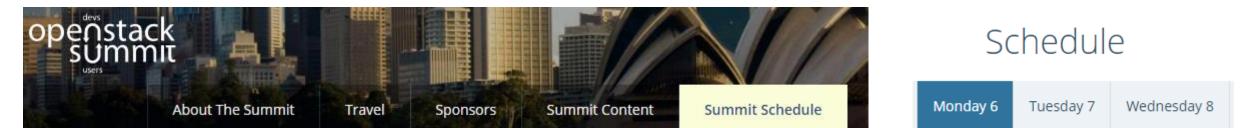


### **LCOO Working Session** Wednesday, 11:50 - 12:30, Location - TBD





# LCOO Members Sessions at the Summit - Monday



Торіс	Summit Schedule URL	When	Who
	https://www.openstack.org/summit/sydney-		
AT&T's Strategy for Implementing a	2017/summit-schedule/events/20565/at-and-ts- strategy-for-implementing-a-next-generation-		Sorabh Saxena (AT&T)
Next Generation OpenStack Cloud	openstack-cloud	09:00-11:15	Ryan Van Wyk (AT&T)
Implications of 5G RAN and IoT on	https://www.openstack.org/summit/sydney-		
OpenStack based edge computing	2017/summit-schedule/events/19547	14:20-15:00	Kandan Kathirvel (AT&T)
	https://www.openstack.org/summit/sydney-		
LCOO 'Birds of a Feather'	2017/summit-schedule/events/20581/lcoo-bof6	11:35-12:15	Jaesuk Ahn (SKT)
	https://www.openstack.org/summit/sydney-		
	2017/summit-schedule/events/20429/congress-project-		masahito muroi (NTT)
Congress - Project Onboarding	onboarding	11:35-12:15	Hiroaki Kobayashi (NTT)
	https://www.openstack.org/summit/sydney-		
	2017/summit-schedule/events/20432/blazar-project-		
Blazar - Project Onboarding	onboarding	13:30-14:10	masahito muroi (NTT)



# LCOO Members Sessions at the Summit - Tuesday

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About The Summit	Travel Sponsors Summit Content Summit Schedule Monday 6	Tuesday 7	7 Wednesday 8
Торіс	Summit Schedule URL	When	Who
	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/19860/i-pity-the-fool-that-builds-his-own- cloudovercoming-challenges-of-openstack-based-telco-clouds	09:50-10:30	Ryan Van Wyk (AT&T) Alan Meadows (AT&T) Jaesuk Ahn (SKT) Shintaro Mizino (NTT)
	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/20548/containerised-cloud-from-core-to- the-edge	10:50-11:30	Kandan Kathirvel (AT&T)
From Kubernetes to OpenStack - Kubespray,	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/20053/from-kubernetes-to-openstack- kubespray-helm-and-openstack	11:40-12:20	Seungkyu Ahn (SKT) Jaesang Lee (SKT) Taeil Choi (SKT)
	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/19424/guaranteed-provisioning-by-the- resource-reservation-with-blazar	11:40-11:50	masahito muroi (NTT) Ko Harada (NTT)
Murano Project Update	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/19266/murano-project-update	11:40-12:00	Felipe Monteiro (AT&T)
	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/20053/from-kubernetes-to-openstack- kubespray-helm-and-openstack	11:40-12:20	Seungkyu Ahn (SKT) Taeil Choi (SKT)
Neutron-Neutron interconnections	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/19465/neutron-neutron-interconnections	13:50-14:00	Thomas Morin (Orange)
	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/20472/cloud-native-designrefactoring- across-openstack-part-ii	13:50-14:30	Alan Meadows (AT&T)
Extreme Testing (ERIS)	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/20470/extremedestructive-testing	13:50-14:30	Sampath Priyankara (NTT)
AT&T's CI/CD Revolution: A Conversation:	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/20067	15:35-15:45	Elise Eiden (AT&T) Jared Stein (AT&T)
	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/19568/ship-it-charting-the-way-to- smoother-cicd-with-kubernetes-and-openstack	16:10-16:50	Jared Stein (AT&T)
A slimmer, thinner, lightweight OpenStack –			
	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/19579/a-slimmer-thinner-lightweight- openstack-why-it-is-needed-for-the-success-of-edge-cloud	17:00-17:40	Kandan Kathirvel (AT&T)
	https://www.openstack.org/summit/sydney-2017/summit-schedule/events/19938/openstack-helm-the-ideal-solution-		
Telco Cloud Life-Cycle Management	for-telco-cloud-life-cycle-management	17:50-18:30	Alan Meadows (AT&T
17	https://www.analysis.com/analysis.com/analysis.com/analysis.com/analysis.com/analysis.com/analysis.com/analysis	s://wiki.open	stack.org/wiki/LCOO

# LCOO Members Sessions at the Summit - Wednesday

openstack users About The Summit Travel	Sponsors Summit Content Summit Schedule	Sche Monday 6 Tue	sday 7 Wednesday 8
Торіс	Summit Schedule URL	When	Who
Multi-cloud management project	https://www.openstack.org/summit/sydney-2017/summit- schedule/events/20471/multi-cloud-management-project	09:50-10:30	Matt McEuen (AT&T)
LCOO Working Group	https://www.openstack.org/summit/sydney-2017/summit- schedule/events/20532/lcoo-wg-session	11:50-12:30	Shintaro Mizuno (NTT)
OpenStack-Helm Workshop: Deploy OpenStack on Kubernetes	https://www.openstack.org/summit/sydney-2017/summit- schedule/events/20424/openstack-helm-workshop-deploy- openstack-on-kubernetes	13:50-15:20	Matt McEuen (AT&T) Pete Birley (AT&T)
Moving tenant workloads transparently across hosts	https://www.openstack.org/summit/sydney-2017/summit- schedule/events/20479/moving-tenant-workloads-transparently- across-hosts	15:30-16:10	Matt McEuen (AT&T)
Integrating OpenContrail into the OpenStack Neutron Stadium	https://www.openstack.org/summit/sydney-2017/summit- schedule/events/19570/integrating-opencontrail-into-the- openstack-neutron-stadium	16:00-16:10	Bin Hu (AT&T)
Life or Death - AT&T's First Responder VNF Platform Enablement Approach:	https://www.openstack.org/summit/sydney-2017/summit- schedule/events/19883/life-or-death-at-and-ts-first-responder-vnf- platform-enablement-approach	16:30-17:10	Elise Eiden (AT&T) Matt McEuen (AT&T)

https://wiki.openstack.org/wiki/LCOO

# **LCOO Where to Get More Information**

# https://wiki.openstack.org/wiki/LCOO



https://openstacklcoo.atlassian.net/wiki/wiki/spaces/LCOO



