Grow with Intel in Open Source World

Dr. Shane Wang

Special Contribution Award Winner

Engineering Manager at Intel OTC

Individual Director of OpenStack Foundation

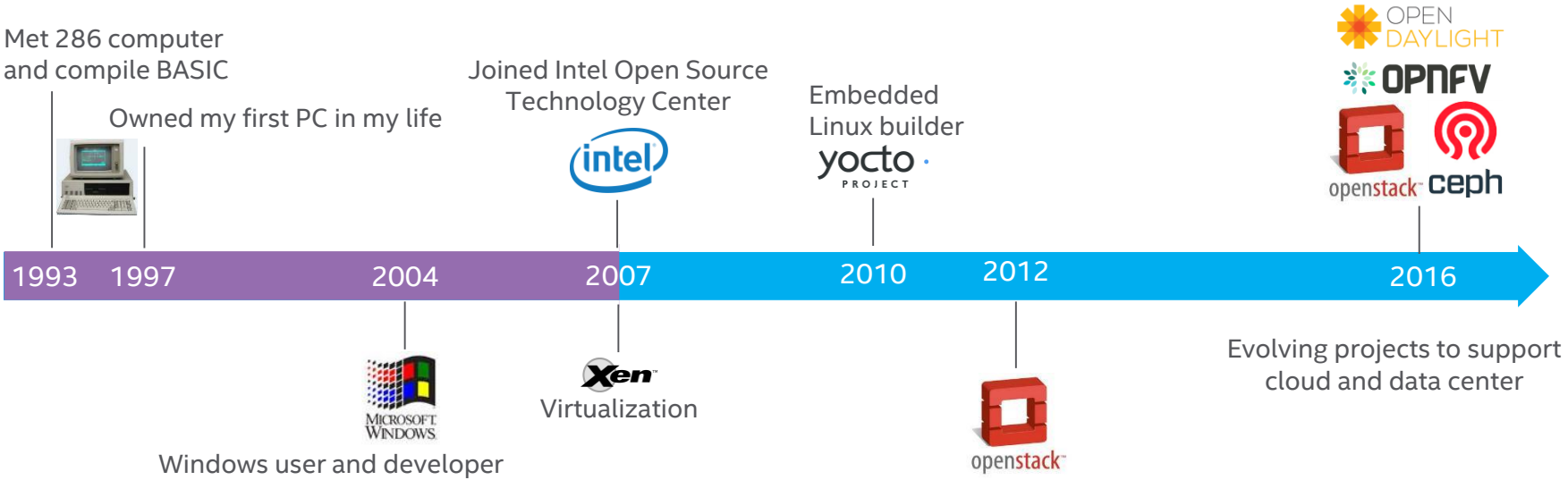
Agenda

- About Shane Wang
- My Journey in Open Source
- My Contribution to Open Source and OpenStack
- Open Source @ Intel
- My Plan for Future

About Shane Wang (王庆)

- Born in May, 1977 in Nanchang, Jiangxi Province in south of China
- Studied in Nanchang, Xiamen, and then Shanghai, and now lives in Shanghai
- Got PhD degree on computer science from Fudan University in 2004, and joined Intel
- Now acts as engineering manager on cloud at Intel OTC

My Journey in Open Source



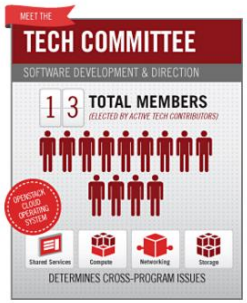
My Contribution to Open Source and OpenStack

- Code contribution to Open Source since 2007
  - One of the major contributors and maintainers of tboot - an open source pre-kernel/VMM module for dynamic root of trust
  - CPUID-spoofing, memory online and offline in Xen
  - A couple of Yocto releases for embedded Linux
  - OpenStack feature implementation in Nova (Compute), Ceilometer (Telemetry), Keystone (Authentication), Cinder and Swift (Storage), Watcher (Optimization), etc.
- Leadership
  - Elected to be Individual Director of OpenStack Foundation board in 2015 & 2016
  - Grew core developers in Nova, Ceilometer, Keystone, Watcher etc. in OpenStack
- Influence
  - An amount of speeches at Forums, Meetups, Workshops, Conferences etc. since 2014

OpenStack Foundation

Founded in 2012 and now is the 2nd largest foundation behind Linux Foundation, containing 50,000 members

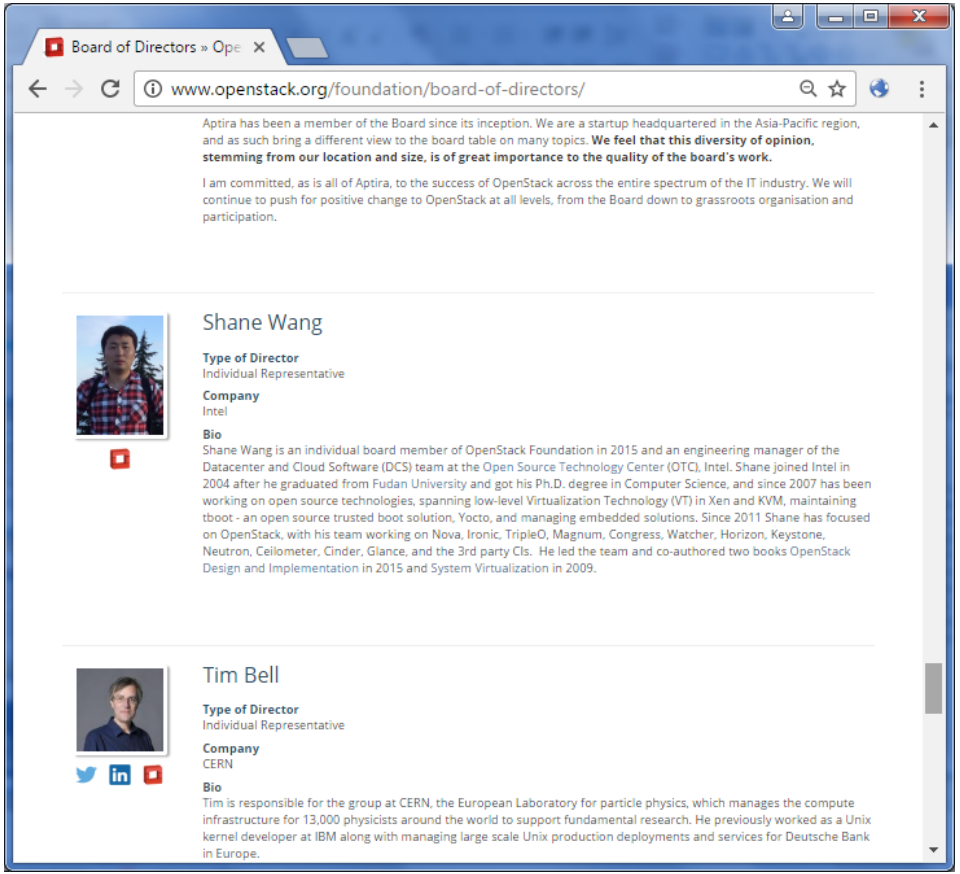
Technical Committee



Board of Directors

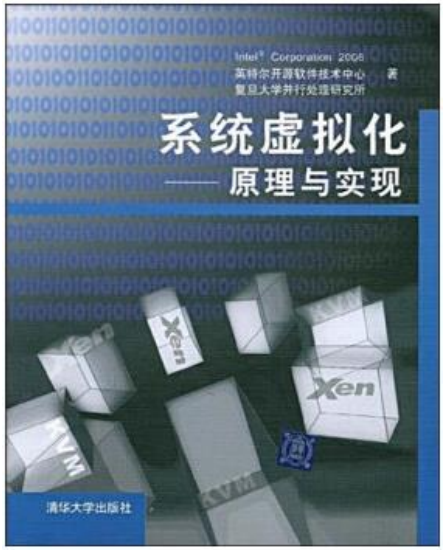
User Committee

http://www.openstack.org/foundation/

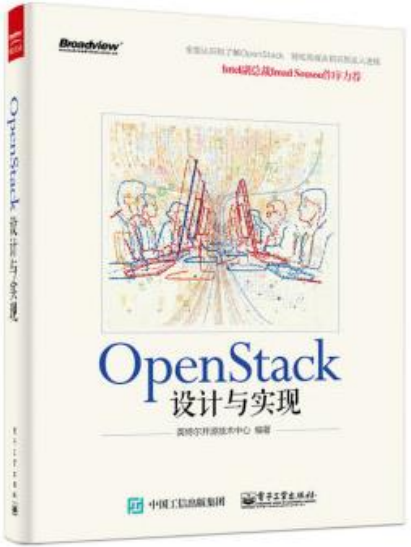


OpenStack Bug Smash

Books



- Drove the team to write the first theoretical book on system virtualization in Chinese
- Published in 2009



- Led the team to write the first book on OpenStack development in Chinese
- Published in May 2015, and got 6 batches and 11,000 copies
- Now on the edition 2

OpenStack Ecosystem in China

OpenStack Ecosystem in China

- More and more companies joined OpenStack
  - Huawei, 99cloud, EasyStack, Awcloud, Kylin cloud, UnitedStack, China Mobile, Letv Cloud Computing, ZTE Corporation, UMCloud, xiangCloud, Huron, NetEase, H3C, etc.
- More and more companies adopted OpenStack
  - China Mobile, China Telecom, Shenzhen Stock Exchange, Bai Lian, State Grid, UnionPay, Hubei Province Gov, etc.

Commit 贡献上榜中国企业	Newton 国内排名	Newton 国际排名	Newton commis	Mitaka 国际排名
华为（Huawei）	1	11	913	8
易捷思达（EasyStack）	2	12	861	12
中兴（ZTE Corporation）	3	13	800	106
九州云（99Cloud）	4	14	793	14
麒麟云（Kylin Cloud）	5	25	218	44
海云捷迅（Awcloud）	6	41	86	37
云途腾（t2cloud）	7	43	80	无
新华三（H3C）	8	55	39	113
大唐高鸿（GohighSec）	9	64	33	无
有云（UnitedCloud）	10	67	30	39
乐视云（Letv Cloud Computing）	11	78	19	100
中国移动（China Mobile）	12	87	14	52
华云数据（Chinac）	13	114	6	无
优铭（UMCloud）	14	115	5	70
烽火通信（Fiberhome）	15	124	4	无
爱数（EISOO）	16	131	3	无
北京国电通（Beijing GuoDianTong）	17	143	2	无
联想（Lenovo）	18	146	2	无
休伦（Huron）	19	149	2	142
云英（Cloudin）	20	169	1	无
电科华云（China Cloud）	21	172	1	无
中国银联（China UionPay）	22	175	1	无
赛斯特（CertusNet）	23	181	1	无

微信号：openstack-cn

Open Source is Mainstream Today

THEN

TODAY

*Other names and brands may be claimed as the property of others.

Why Open Source, Why Intel?

TOP 3 CONTRIBUTOR

Linux*

Chromium*

Android*

Industry Leadership

THOUSANDS OF EMPLOYEES

Contributing to projects worldwide

Creating solutions optimized for Intel® architecture

Drives hardware and software innovations and standards, reducing engineering costs, and accelerating time to market for new products

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Open Source @ Intel

Contributing Talent and Resources and Enabling Solutions

People

Technologists
Software Architects
Maintainers
Software Engineers
Sales & Marketing

Projects

Power Efficiency
Connectivity
Security
High Performance
Virtualization & Manageability
Parallelism
Graphics

Solutions

High Performance Computing
Web Technologies
Data Center
Cloud
IoT
Big Data
Mobile
& more…

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Intel's Contributions Optimize Features & Platforms

Development tools to create applications

Operating systems

Graphics, connectivity, etc.

Devices: PCs, tablets, phones, Internet of Things

Applications

Cloud/Datacenters

Platform hardware

Cloud and Data Center Products

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Open Source and Technology Leadership

Leading Contributor to Linux* Kernel

Consistently in the top three subsystem owners of the Linux Kernel for the past decade

#1 Contributor to Intel® Graphics for Linux

Highly optimized for power, footprint, performance; high video quality

Leading Contributor to Android* Open Source Project

Optimizing Android OS for Intel® architecture

Improving Performance and Capabilities for HTML5*

Defining web standards, enabling cross-device development

Top External Contributor to Webkit*/Chromium*

Richer web page rendering, smoother video, faster page loading

OpenStack* Board Member & Contributor

Foundation board member and a contributor across all the major projects today

*Other names and brands may be claimed as the property of others.

Intel® Cloud for All

Unleash Tens of Thousands of New Clouds

Invest

in creating enterprise ready, easy to deploy SDI solutions

Optimize

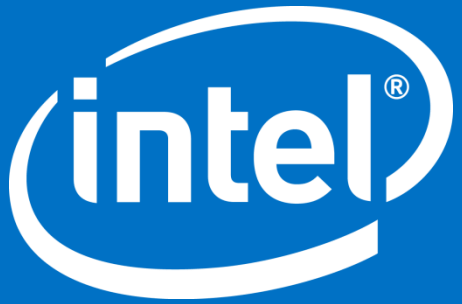
for high efficiency clouds across workloads

Align

the industry to accelerate cloud deployments

My Plan for Future

- Focus on two hardest and hottest areas in cloud
  - Storage & Network
- Continuously engage in advanced technologies and projects, besides OpenStack
  - Containers, Kubernetes, Ceph, ODL, etc.
- Promote open source primarily in China and Asia for cloud and data center to increase adoptions
- Closely collaborate with partners in the ecosystem
- Support our customers sincerely to make WIN-WIN with open source
- Innovate for new cloud technologies and projects, and open source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