Empower people across China by open source

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Who am I?

Chunfu Wen --- currently is working for Red Hat
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Disclaimer

The opinions and views expressed here are from my own, and do not reflect those of my company or its clients.
Agenda

● How one large country is moving to an open source mindset and embark the journey
● How they attract each other mutually, and hit it off
● Share open source experiment in school
● Vision to the future
Part I Embark the journey of open source
China in nutshell

- Big, huge country both demographically and geographically
- 1.4 billion people
- 6+ million college graduates per year
A Long Way

First Emperor: Qin Shi Huang

Deng Xiaoping
Door opened: internal migration within China

It brings diversity and inclusiveness
Door opened: student study abroad

50% of international students come from China and India.

Work as catalyst for open source
People life in year 2019
OSS Value to people

Oppo

Hua Wei

Xiaomi
OSS value to enterprise: membership

Linux PLATINUM MEMBERS
- Huawei

Linux GOLD MEMBERS
- Alibaba Cloud
- Tencent

CNCF PLATINUM MEMBERS
- Huawei

CNCF Gold MEMBERS
- Baidu
- Tencent Cloud
- ZTE

Openstack Board of Directors
- Anni Lai: Gold Representative, Huawei
- ChangBo Guo: Gold Representative, EasyStack
- Ruan HE: Platinum Representative, TStack
Project contribution

- No.3 Contribution by companies in OpenStack Queens
- No.3 contribution in hadoop
- Initiate open source
  - ServiceComb
  - OpenSDS
  - CarbinData
  - OpenLabs

- 150+
- Major contributors Virtualization project Sheepdog
- Alibaba Cloud ApsaraCache
- RocketMQ – The Distributed Message Middleware
- Pouch and Dragonfly – The Rich Container Technology and File Distribution System

- TARS--High-performance RPC framework by Tencent
- weui--A UI library by WeChat official design team
- Angel-- A Flexible and Powerful Parameter Server for large-scale machine learning
- CMONGO--MongoDB for Tencent Cloud

- Open source PaddlePaddle, for parallel distributed deep learning, https://github.com/PaddlePaddle/Paddle
- Open source apoll auto, an open autonomous driving platform: https://github.com/apolloauto
Kernel Patch Contribution by Country

From Apr. 16 2005, top kernel patch contribution country

- Unknown: 28.17%
- U.S.A: 13.11%
- German: 10.09%
- Chinese: 7.04%
- United Kingdom: 5.78%

Source: http://www.remword.com/kps_result/all_whole_country.html
Part II How they attract each other mutually
A view from economics law: supply and demand

- Demand: Digital/business transformation via next gen technology: cloud computing, AI, and Big Data
- Supply: Dominated by proprietary software
Changing: business softwares in China

IOE and MS dominate almost all business softwares

Open Source software

Open projects*
Collaboration Opportunity: LC3

- LinuxCon + ContainerCon + CloudOpen 2018 took place in June 2018
  - Beijing, China
  - 2024 attendees, 382 organizations across 36 countries
  - 47,000+ views of Keynote Sessions online in the first week
Collaboration Opportunity: KubeCon China 2018

- KubeCon + CloudNativeCon China 2018 took place in 13~15 November
  - Shanghai, China
  - 3 days, 2500 attendees
  - technologists, maintainers and end users of CNCF’s hosted projects
Collaboration Opportunity: Cephalocon APAC

- Inaugural Cephalocon APAC took place in March 2018
  - Beijing, China
  - 2 days, 4 tracks, 1000 attendees
  - Users, vendors, partners, developers
- 14 industry sponsors
Part III Open source experiment in school
When it comes to China’s contributions to open source projects, things were slow for a time but are beginning to take off.
Open source in high school education

- Adopt open source hardware into national-high-school-new-curriculum-standard by the Ministry of Education of China
Open House Day
Free Software Day
COSCon was a great opportunity to meet developers and learn how GitHub can better serve the open source community in China. It is exciting to see how much creativity and passion there is for open source in China.

-- Nat Friedman, CEO, GitHub
Student Open Source Conference
Part IV  Vision to the future
Vision to the Future

90’s

- Well-educated
- Languages advantages: study English from kindergarten
- Share, transparency
- Skilled in a global community of contributors

Millennials

- Come to play major role in talent market
- Born in mobile internet times: open, share
- Well educated
- Develop the habit of paying for services
Challenges

- Security
- OSS governance
- Mentoring and education
- Migrate to open source technology smoothly
- Collaboration among community and with standardization organization
Questions?
THANK YOU

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