The Power of Open Source and Ecosystem

Dr. Ying Xiong, Chief Architect of Cloud Platform
Things To Do In China

Panda

Tea

City
Huge Open Source Market In China

Open Source Software Usage in China in 2016

- 83% Currently Use Open Source Software
- 10% Plan to Use Open Source Software
- 7% Use Proprietary Technologies

Source: survey report from China Academy of Telecommunication Research (2017)
Why Open Source and How

- Top Factors for Choosing Open Source Software
  - Maturity: 63.7%
  - Sustainability: 19.7%
  - Talent Reserve: 16.6%

- How to Implement Open Source Technology
  - In-House R&D: 63.7%
  - Use Open Source Provider: 19.7%
  - Both In-House and Provider: 16.6%

Source: survey report from China Academy of Telecommunication Research (2017)
Open Source at Huawei

A Leading Provider & Contributor of Open Source Software in China

- Solve Real Challenges in Using Open Source Technologies
- Contribute Open Source Projects
- Build Developer Ecosystem
- Make Open Source Software Easy to Use and Manage
- Optimize and Scale Open Source
- ...
Scenario: OpenStack in China

Bug Smash Events + Developer Trainings

The 2nd Biggest Market
The Biggest Open Stack Ecosystem

The 1st OpenStack Days Event in China

China Mobile: The Biggest Customer
✓ Private cloud platform for NFV, IoT applications, & internal systems
✓ As IaaS for Public Cloud

Source: China mobile
Scenario: Container at Huawei

Moves to Cloud Native Architecture

✓ Use Kubernetes cluster to manage 4K+ nodes and 20K+ containers
✓ Reduce of # of VMs from 100 to 20 for the same amount of workload.
✓ Improve development & release efficiency by 10 times
✓ Share micro service and container best practices with Community
✓ …
Actively Contribute Projects To Community

**CarbonData**
- An indexed columnar data format for fast analytics on big data platform

**OpenSDS**
- Abstraction of storage complexity
- Develop once, run everywhere

**Microservice Framework**
- Enable developers to quickly migrate existing applications into cloud platform
- Support multi-language
Improve Developer Experience

OpenLabs
Global OpenLabs enabling the shortening of developing process

API
Open API for simplified developing experience

Tools
End-to-end tools to help developers use open source easily

Together:
Dream Big
Fly High

One thing, working together is fun but winning together is awesome.
Thank You.

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