

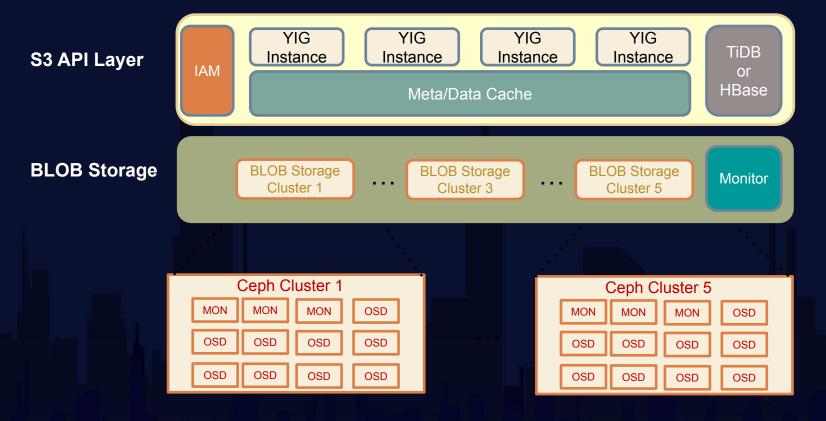
COMPANY/BUSINESS OVERVIEW

- Xin Zhong is the CTO of China Unicom Wo Cloud. China Unicom is the top 3 telecom operator in China. And Wo Cloud provide cloud services for cusotomers like big enterprise and government. Our cloud business make more than I billion RMB revenue every year. We have tens of thousands of servers which are running open source software.
- China is a critical and unique market for cloud and storage. Besides the big growth of public cloud, industry cloud and private cloud is still very hot. I think we need to get closer to the requirement and user scenario in china. There is still huge space to grow SODA through open source community..

PLATFORM OVERVIEW



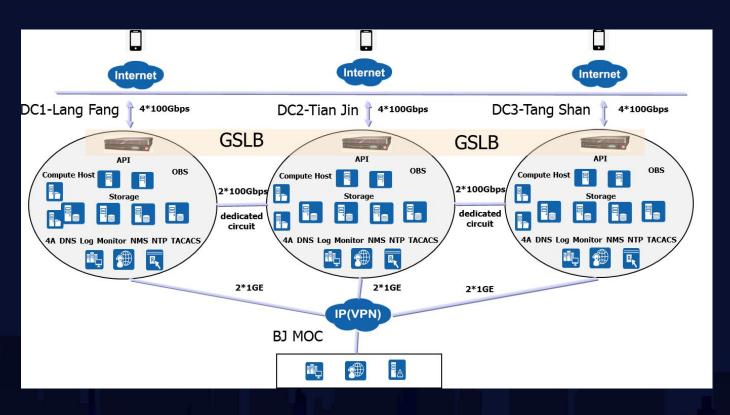
YIG Architecture





DATA AND STORAGE USE CASE(S)

Multi-Region Deployment



• Data Center Settings

- The entire system is distributed in three data centers.
- Three data centers is located Hebei province Lang Fang,
 Tang Shan , Tian Jin.

• Link

- There are has 4*100G upstream link in each DC.
- Three data centers is interconnected 2*100G by dedicated circuit.

Load Balance

- Three GSLBs is made up of one synchronization group which is responsible for domain name resolution, and forward traffic to virtual servers by ratio method.
- SLB create virtual servers which is corresponding External NIC of API nodes;
- ALL API nodes forward traffic to storage nodes by equal ratio.



DATA AND STORAGE CHALLENGES



数据类型

数据湖

数据探索





Data







Capability to Aquire and Distribute

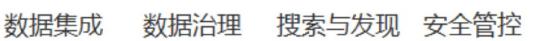




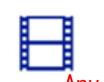


质量检验

Big Data Support







非结构化数据

半结构化数据

type of Data

Capability to manage data

data Any amount of data

Any source of data

Capability to analyse

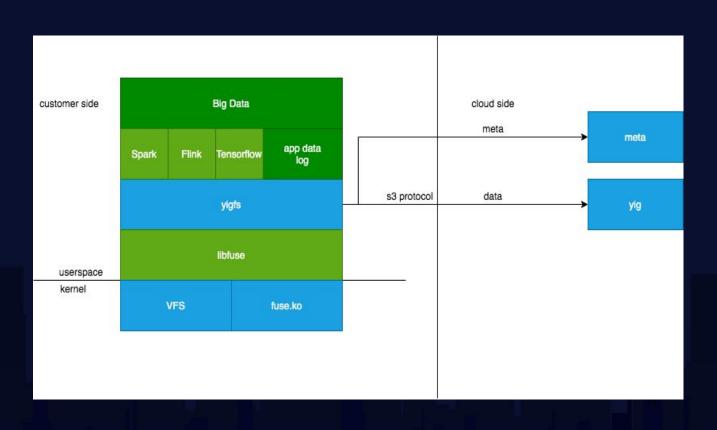
Any time data



NEXT STEP FOR YIG&SODA



YigFS Architecture



- User-space posix-fs based on fuse
- Data stored in YIG or any other
 S3-compatible object storage
- Metadata stored in KV storage like TiKV with transaction support
- FS gateway for YIG and seamless integration with Spark



