

# ChubaoFS 线上宣讲

主办单位:



中国科学院软件研究所 Institute of Software Chinese Academy of Sciences





# ChubaoFS (储宝) 是分布式文件系统与对象存储融合的存储项目

- 为云原生应用提供计算与存储分离的持久化存储解决方案
- ▶ 论文被数据库国际会议SIGMOD 2019 接收

#### ChubaoFS

A cloud native- storage platform that provides both POSIX-compliant and S3-compatible interfaces

Used in production for more than 3000 applications/services on JD's container platform

#### **Publication**

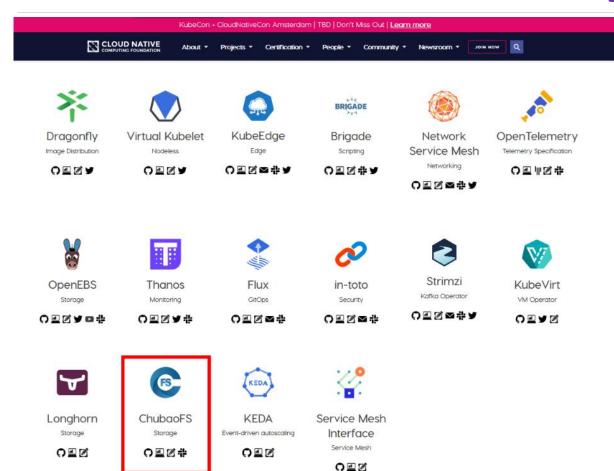
 CFS: A Distributed File System for Large Scale Container Platforms. SIGMOD '19, June 30-July 5, 2019, Amsterdam, Netherlands. https://dl.acm.org/citation.cfm?doid=3299869.3314046

Easy to use, deploy and maintain

Open sourced: <a href="https://github.com/chubaofs/chubaofs">https://github.com/chubaofs/chubaofs</a>



### ChubaoFS is a CNCF Sandbox Project





https://www.cncf.io/sandbox-projects/

# How ChubaoFS Ecosystem building?

- Kubernetes
  - Most often deployed on Kubernetes
- Harbor (just graduated)
  - Provides a backend storage solution for Harbor based image center
  - Harbor HA solution
- Helm (popular project)
  - Support Helm 2 as the package manager of ChubaoFS
- Prometheus(second graduated after k8s)
  - Default monitoring system in ChubaoFS
- Rook
  - As a storage orchestrator of ChubaoFS for Kubernetes (WIP)



# ChubaoFS – Deployment & Orchestration

- Kubernetes CSI driver (v1.0.0)
  - github.com/chubaofs/chubaofs-csi
- Docker compose
  - Create and start resource manager, data & metadata subsystems with a single command
  - Try it! <a href="https://chubaofs.readthedocs.io/en/latest/user-guide/docker.html">https://chubaofs.readthedocs.io/en/latest/user-guide/docker.html</a>
- Integration with Helm 2/3
- Rook (Current Projects)
  <a href="https://isrc.iscas.ac.cn/summer2020/#/organisations/chubao">https://isrc.iscas.ac.cn/summer2020/#/organisations/chubao</a>



#### **Use Cases**

ChubaoFS Served more than 3000 applicants and services at JD, such as:



- Click Stream service
- Video Clips
- Advertising
- Searching
- Al platform and services
- Order system
- Promotion system
- Monitoring system
- GroupBuy service
- •

# **ChubaoFS - Production Adopters (External)**













### **ChubaoFS - Community**

Mailing list: chubaofs-maintainers@groups.io

Website: <a href="http://chubao.io/">http://chubao.io/</a>

**Twitter:** @ChubaoFS

**Slack:** chubaofs.slack.com

**Issue tracker:** Use the GitHub Issue tracker to file bugs and feature request



#### ChubaoFS Summer 2020 tasks:

#### https://isrc.iscas.ac.cn/summer2020/#/organisations/chubao

























# 问答环节

#### 导师联系方式:

wei.ding@jd.com zhengyi.zhu.hust@gmail.com ansj-sun@163.com

mofei2816@gmail.com

xxscott@163.com

liuchengyu@jd.com





# 感谢



欢迎关注暑期2020活动官网