Alibaba BoF @OSDI 2018

We will introduce and discuss some key system software in Alibaba, including OS, distributed storage system and resource management. They are used to support "millions" of application use cases in large scale, especially with extreme huge workloads on promotion events.

Venue: Las Palmas Room 1 Date: October 8 , 2018 Time: 8:30pm-9:30pm ALIBABA BOF @ OSDI 2018







OS Development and Exploration in Alibaba



Speaker: Weidong Han

Title:

Senior Staff Engineer, Alibaba Group

Bio:

and Huawei before joining Alibaba. He started



to support "millions" of application use cases in Alibaba. We will introduce some enhanced features introduce our exploration on AliUK which is a unikernel

Pangu2.0: New Distributed Storage System for **Large-Scale Data Center**



Speaker:

Zhongjie Wu

Senior Staff Engineer, Alibaba Group

Bio:

Zhongjie Wu is currently a Senior Staff Engineer of Before joining Alibaba, he was a Senior Director in

storage system department. Before that he worked in EMC and storage storage system design area and issued more than 20 storage related

Abstract:

In order to address large-scale data center storage latency with high IOPS. In this presentation, the new

user space storage engine and RDMA interconnection technology will be discussed in detail. Pangu2.0 has been widely deployed in large-scale data center and provide basic storage services for Alibaba. Some experience and

Sigma: Resource Management in Alibaba at Scale



Speaker:

Haiyang Ding

Senior Software Engineer, Alibaba Group

joined in 2017 and is now focusing on data-driven

resource management strategy and related innovation research. Prior to a Ph.D. on Automatic Control (Distributed MPC) in Grenoble University,

Abstract:

Sigma is the resource management system inside Alibaba Group and it manages tens of thousands of machines distributed in several data sites, in which applications from across over 60+ Business Units are

daily average) take place. In this session, we will introduce some of our efforts in provisioning the resource for the promotion events and how we try to improve the overall efficiency of our fleet during the day-to-day period.