Da Ma

Software Architect

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Skills

Kubernetes, Mesos, HPC, PMP (#1684623), C/C++, Java, Golang

Experience

IBM, Beijing, China (2015 ~ now)

Software Architect of Spectrum Conductor for Container

Kubernetes Member: 40+ patches; one major proposal:
* Run multiple application in k8s [#36716] (proposing to be incubator, prototype at k82cn/kube-arbitrator)

Kube-mesos Maintainer: defined the roadmap of kube-mesos-incubator with 5 proposals:
* Integrate Namespace/Quota with CloudProviders [#31069]
* Integrate kube-DNS with external DNS [#28453]
* Make k8sm-scheduler using reserved resource firstly [#31068]
* Kubernetes use revocable resources from Mesos [#19529]
* Refactor k8sm to avoid re-ship binaries [k8sm#20] (on-going)

Mesos Contributor: 27 patches; several major proposals:
* Reusable/Cacheable Offer [MESOS-4811]
* Oversubscription for reservation [MESOS-4967] (with prototype)
* Manage offers in allocator [MESOS-4553]
* Enable `requestResource` for Marathon/Kubernetes

IBM, Beijing, China (2014 ~ 2015)

Team Lead of Spectrum Symphony L3

Lead ~5 size of team on critical customer issues handling, by working with global Product manager and Support team, to meet business priorities in time. 1 escalation, 2 p1 issue per week (on average).

IBM, Beijing, China (2010 ~ 2014)

Team Lead of Spectrum Symphony CE

Lead ~10 size of team on agile development for new requirements, by working with global Product manager, to meet business priorities in time; the major requirements includes:

* SSM migration
* DAG workload for Symphony (research)
* Single SIM for Symphony (investigation)
* Multiple Tasks in One Service Instance (MTS)
* Tasks priority based scheduling
* Service Affinity Group (SAG)
* Recursive Workload
* 20K cores per application (Multiple-SSM)

Baidu, Beijing, China (2008 ~ 2010)

R&D of PS department; focus on coverage of spider/crawler.

R&D of IT department; focus on "workload form engine", "user management system" and so on.

Education

- **Jilin University Master, Computer Science and technology 2005 – 2008**

  Computer System Architecture Lib, major in Grid Computing (Globus, MPICH-G2); focus on "Virtual Job Model", 2 papers published, 1 conference

- **JiLin University BS, Computer Science and technology 2001 – 2005**

  Major in Computer Science and Technology; Scholarship every year

Presentation

- KubeCon 2016: Kubernetes on EGO – Bringing Enterprise Resource Management and Scheduling to Kubernetes
- MesosCon 2016 Asia: Kubernetes on Mesos: Not Just Another Mesos Framework
- GOPS 2016 Beijing: Resource Management and Scheduler of PaaS
- COSC 2016: Kubernetes on Mesos: The Present and the Future
- CSDN 2016: Roundtable on micro service in enterprise