

Mesos & Aurora

=

Awesome

SRECon15 Europe



gutefrage.net
Die Ratgeber-Community

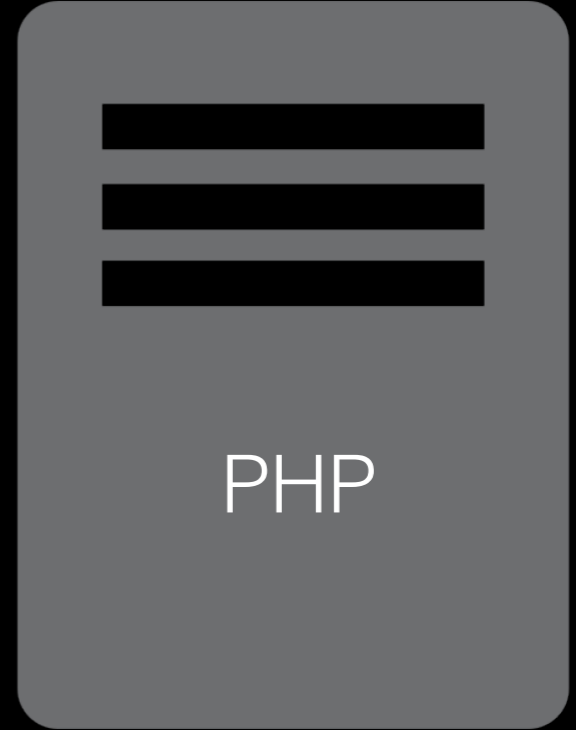
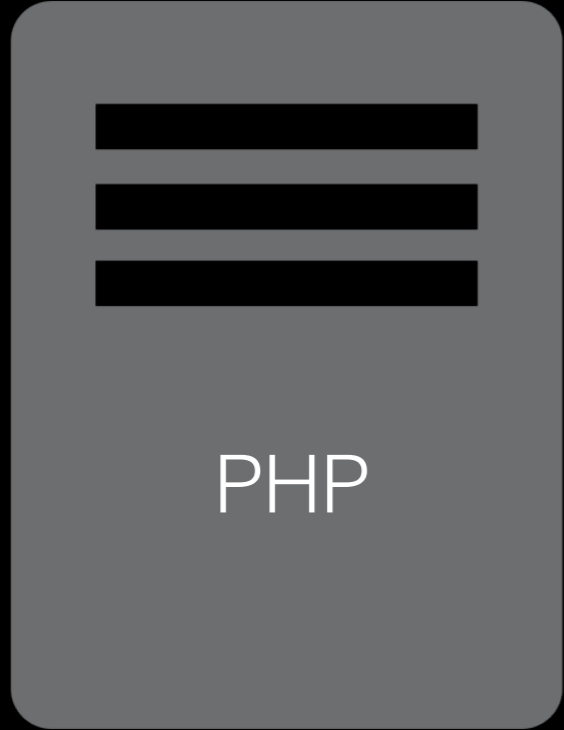
Gutefrage.net - Overview - Requests



Where do we come from?



PHP
MySQL



PHP



MySQL



...



Recommender



...



RabbitMQ



Redis



PHP

MySQL

...



Recommender



...



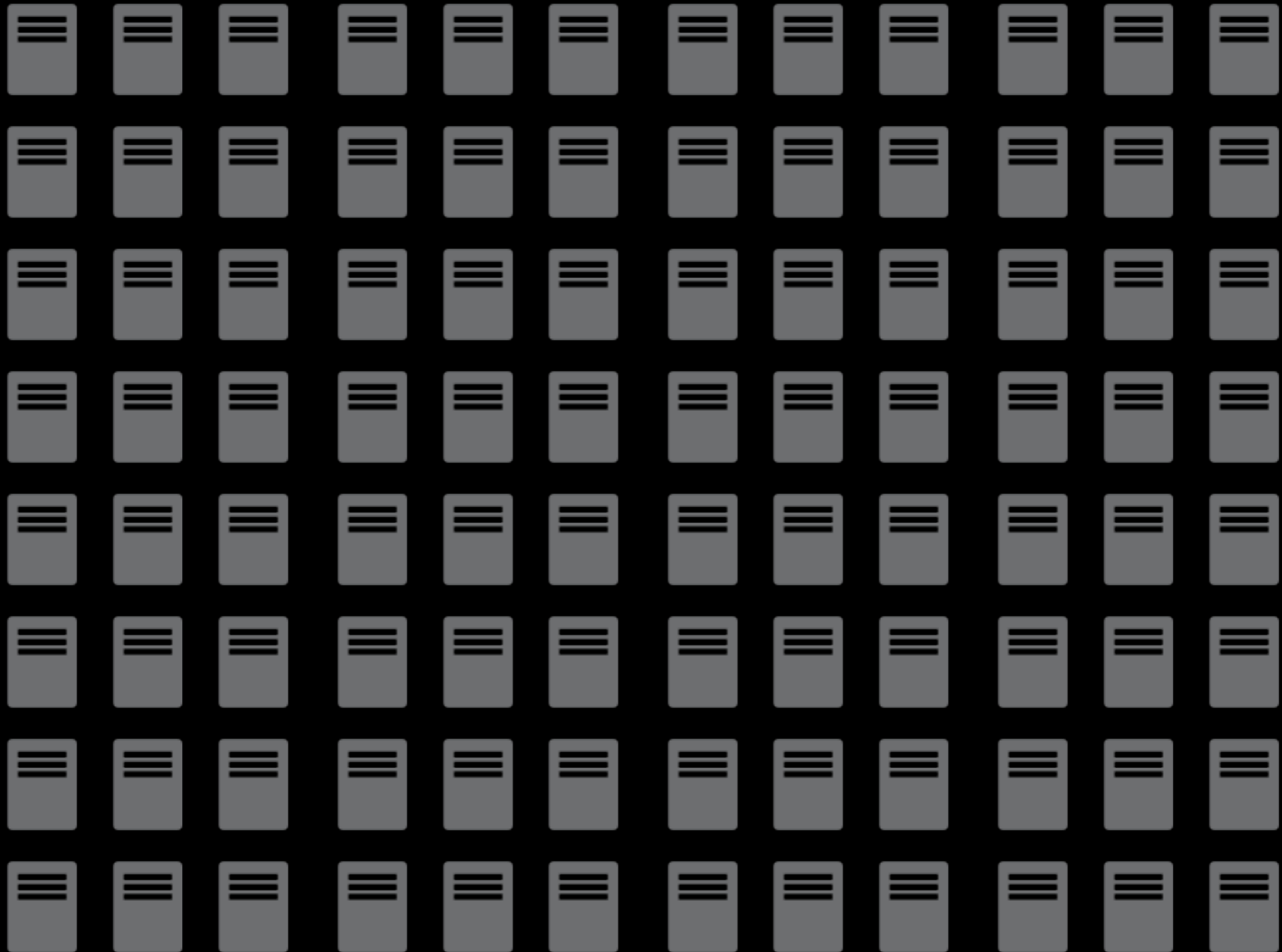
RabbitMQ

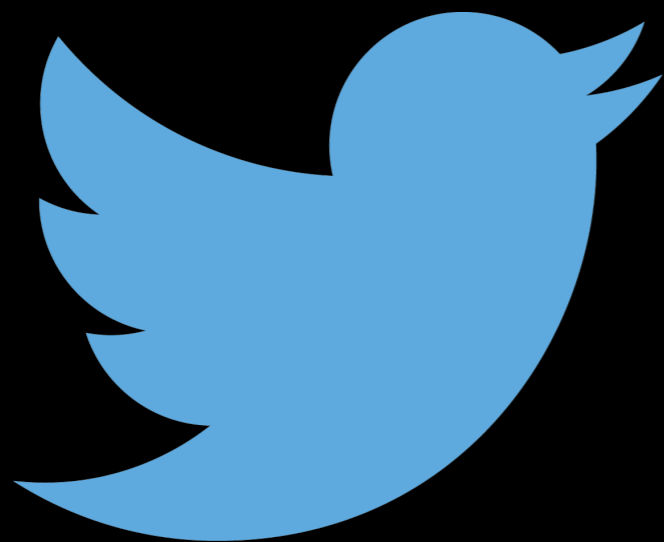


Redis



Everything

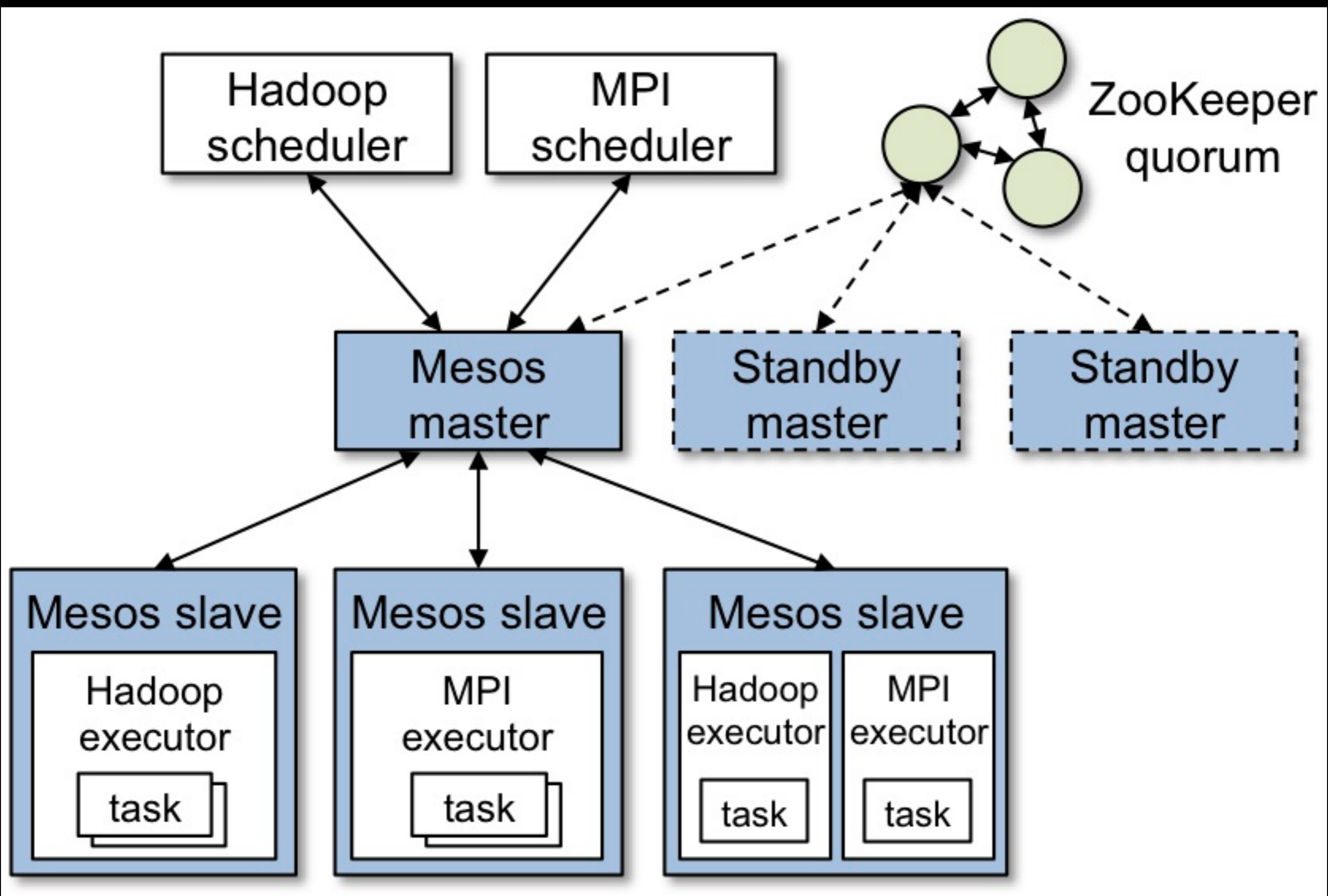


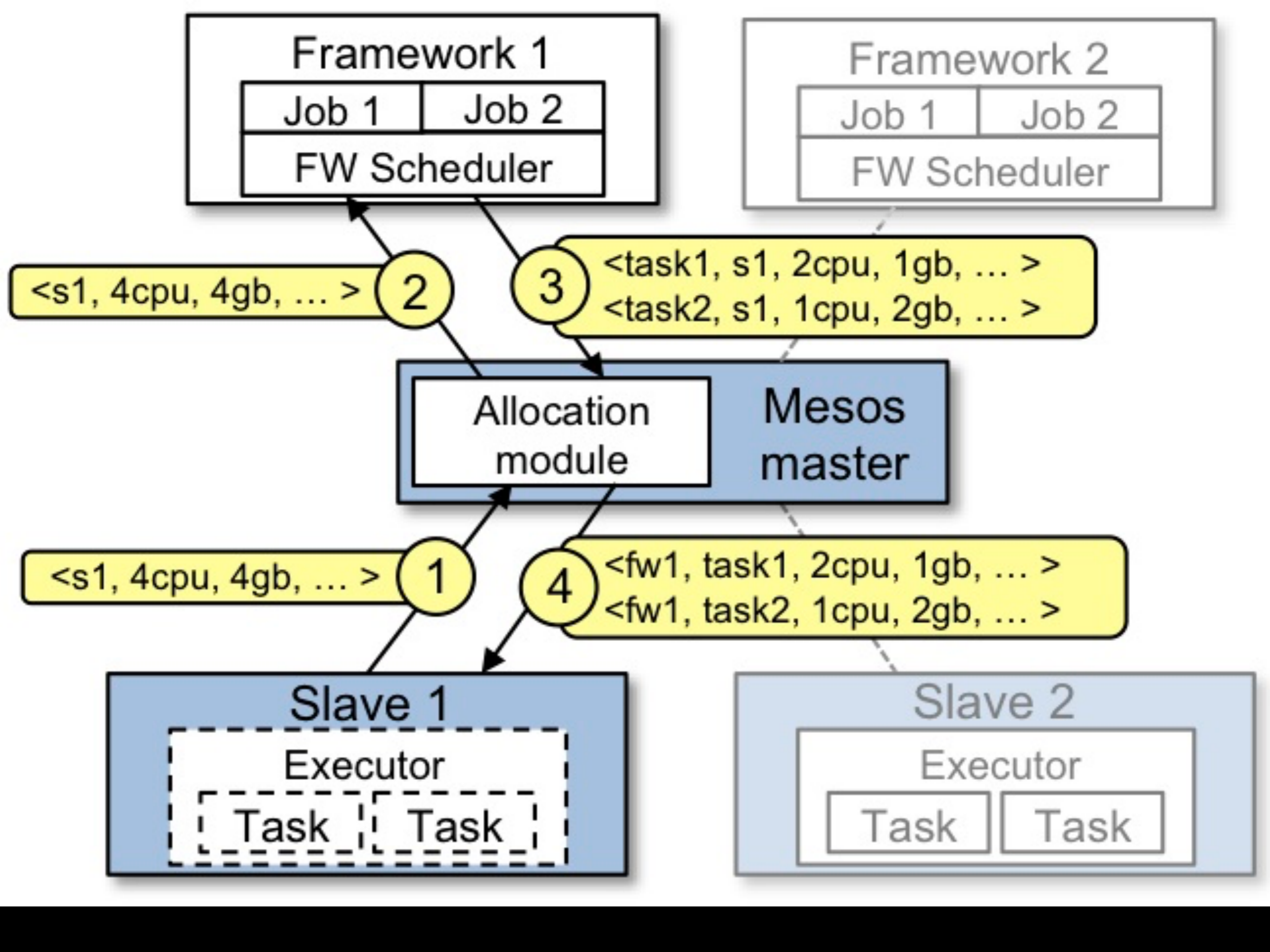
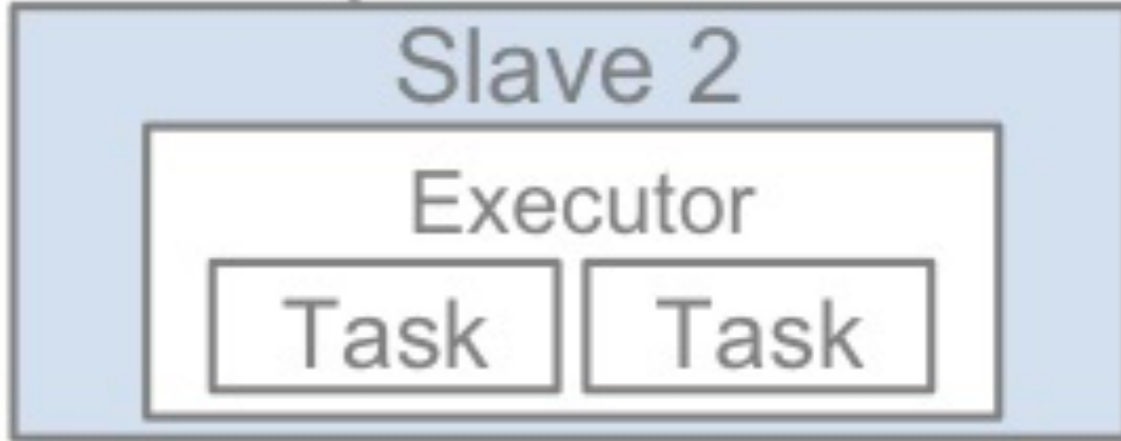
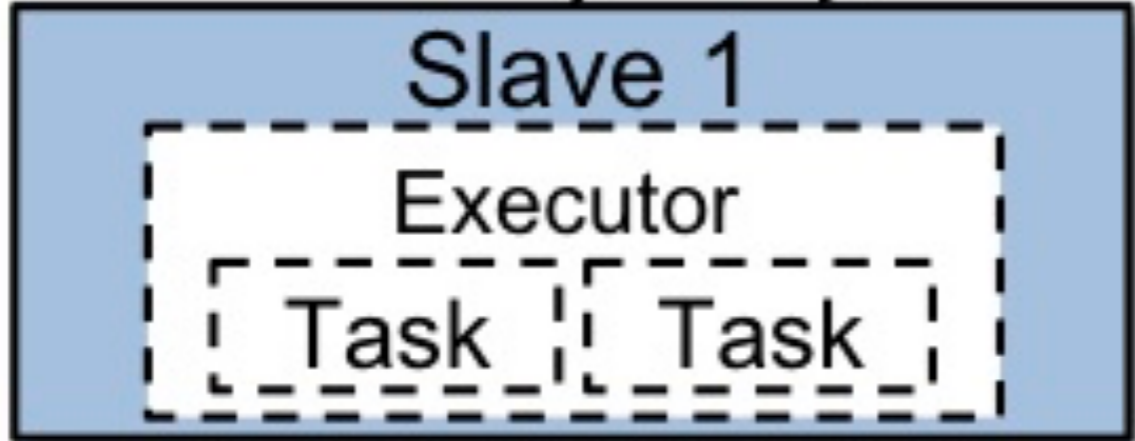
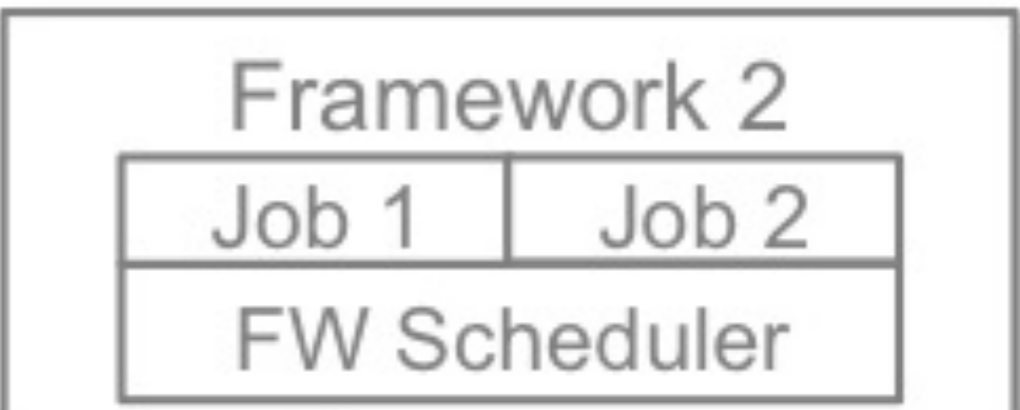
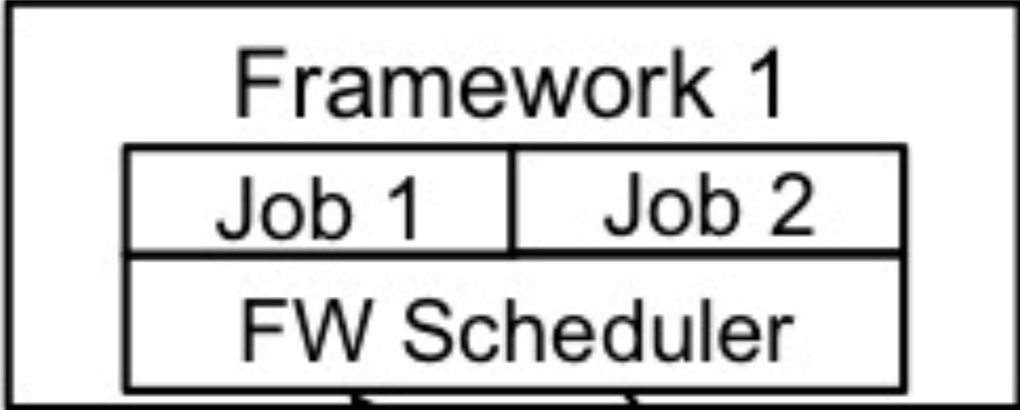


NETFLIX



MESOS





Resources & Attributes

- * CPU
- * Memory
- * Disk
- * Ports

e.g.

- * Host
- * Rack
- * OS
- * DiskType

Au

Aurora

Cc

Cray Chapel

Dp

Dpark

Ch

Chronos

Jk

Jenkins



Ma

Marathon

Ex

Exelixi

Ha

Hadoop

Tq

Torque

Ca

Cassandra



Sp

SSSP

Mi

MPI

Sk

Spark

St

Storm

Es

ElasticSearch

Ht

Hypertable

Mesos



Apache

TM

AURORA

**Apache Aurora is a Mesos
framework for long-running
services and cron jobs.**

Discovery
via
Zookeeper

Rolling Updates (&Rollbacks)

Constraints

*rack: limit:2

*disktype: value:ssd

*os: value:centos

Job *etl-all-user-satisfaction-daily* in role *aurora.cron* and environment *prod*

Cron Job Summary

Number of tasks	Cron Schedule	Next Cron Run	Collision Policy	Metadata
1	30 3 ***	05/11 05:30:00 LOCAL, 05/11 03:30:00 UTC	KILL_EXISTING	

[Active tasks \(0\)](#)

[Completed tasks \(2\)](#)

[All tasks](#)

Instance	Status	Running duration	Host
0	+ 20 hours ago - <u>FINISHED</u> : Task finished.	5 minutes	mesosslave04.endor.gutefrage.net
0	+ 2 days ago - <u>FINISHED</u> : Task finished.	6 minutes	mesosslave04.endor.gutefrage.net

task 1430927589184-gfsservice-prod-svc-app-relatedquestions-0-77a0a911-9698-49ef-b8bf-567abc66853c

task

status ACTIVE

user gfsservice

ports

admin [31177](#)

web [31308](#)

aurora [31177](#)

thrift [31886](#)

header

chroot [browse](#)

hostname [mesosslave03](#)


launch time 05/06 15:53:16

task config [view](#)

task status	time
ACTIVE	05/06 15:53:16

cpu	ram	disk
0.004	633.0MB	0.1GB

process				time		used		logs	
name	run	status	return code	started	finished	cpu	ram	stdout	stderr
fetchService	0	SUCCESS		05/06 15:53:16	05/06 15:53:18			stdout	stderr
fetchConfig	0	SUCCESS		05/06 15:53:18	05/06 15:53:19			stdout	stderr
runService	0	RUNNING		05/06 15:53:20		0.004	632MB	stdout	stderr

A circular, light-colored sign is mounted on a textured, golden-brown door. The sign has a dark border and contains the text "HELP IS ON THE WAY" in bold, black, sans-serif capital letters, arranged in three lines. Above the sign, there is a small, dark, circular object, possibly a peephole or a sensor.

**HELP IS
ON THE
WAY**







Jenkins Build & Unit Tests

->

Canary Deployment

->

Large/Regressionstests

->

Production Deployment

~ 100 Deploys / Day

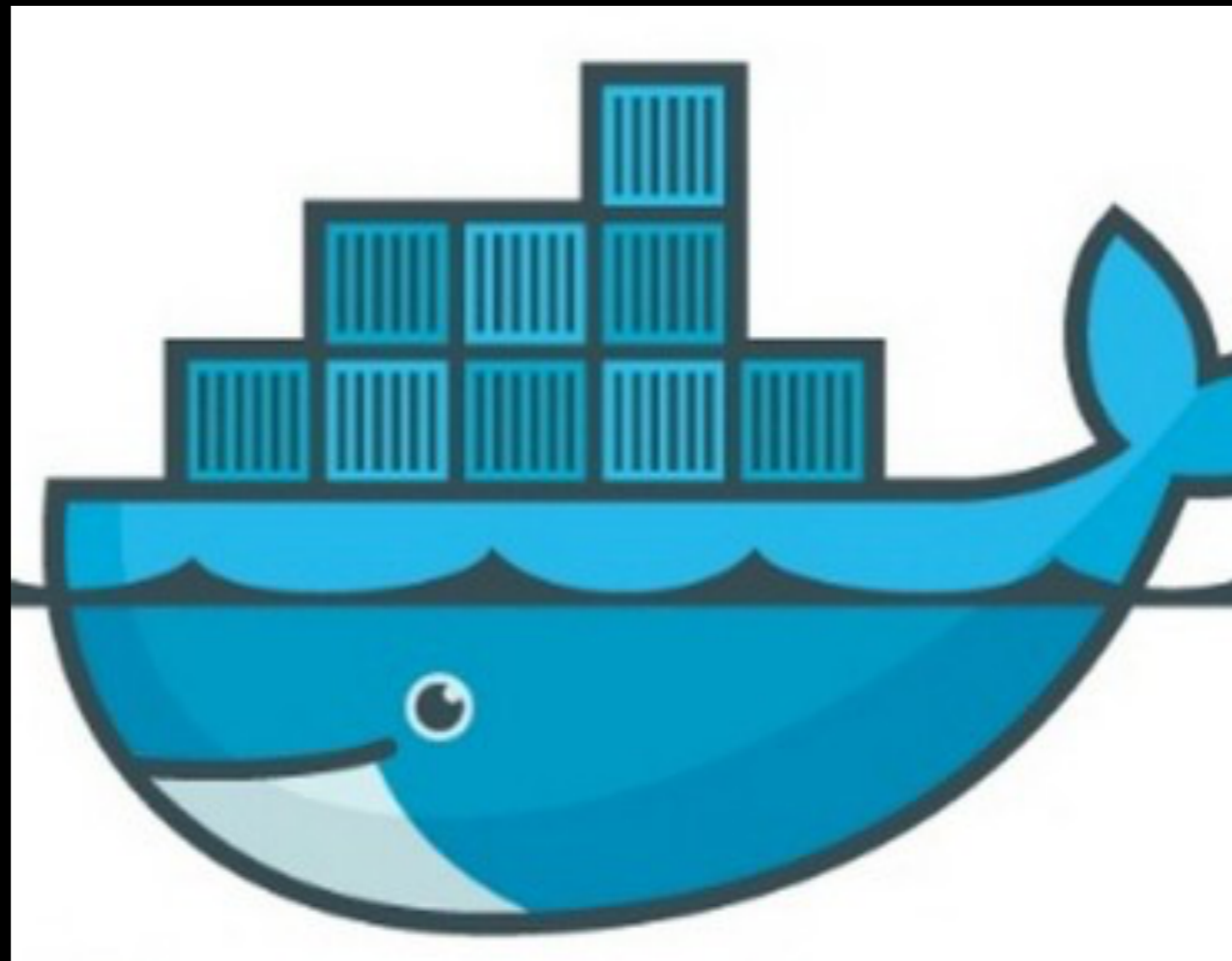
~ 10 Minutes commit->prod

Things to do...



Core OS

&



„Kubernetes and Mesos
are a match made in
heaven.“

<https://github.com/mesosphere/kubernetes-mesos>

Florian Pfeiffer

florian.pfeiffer@gutefrage.net

@derfloh