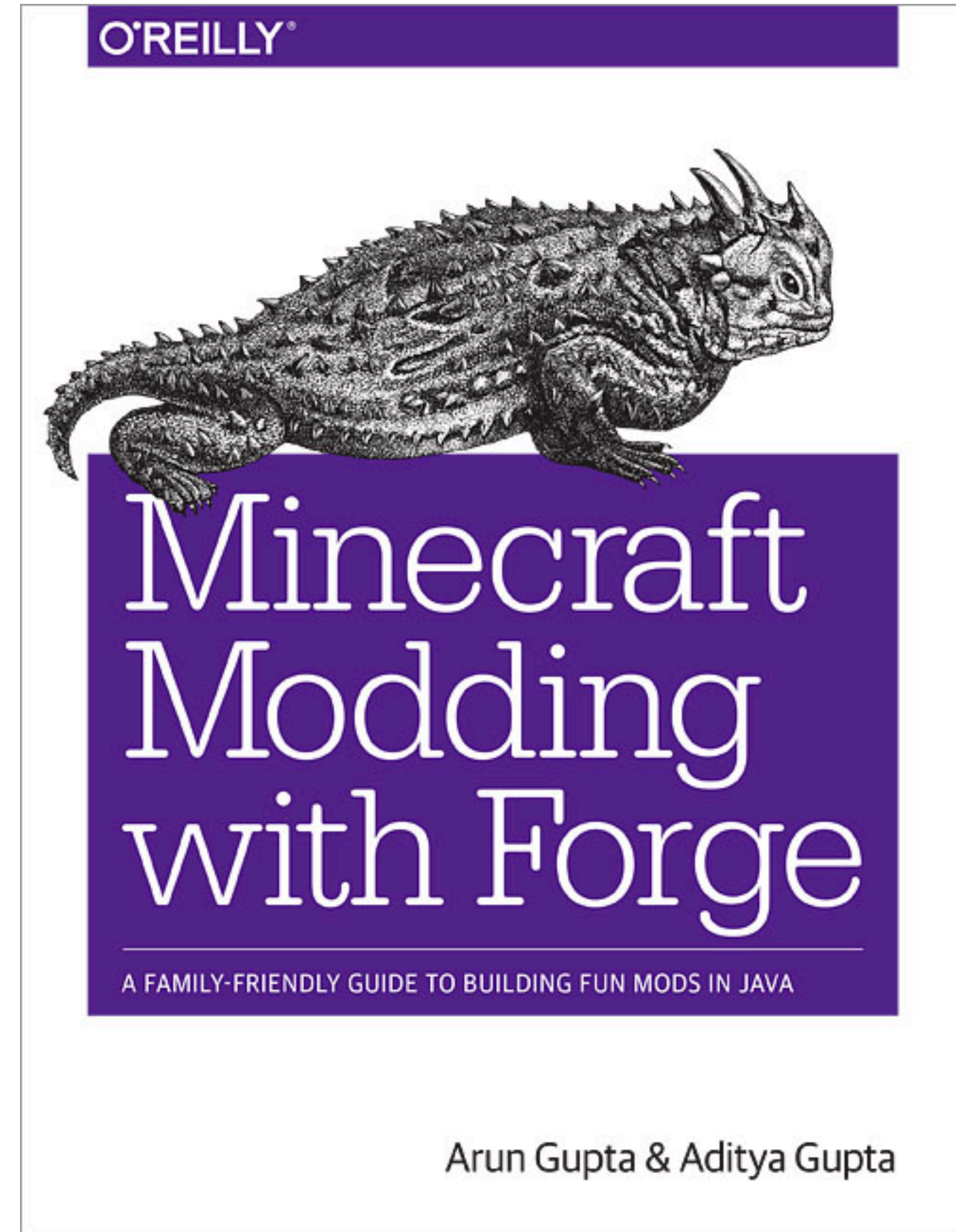




Getting Started with Mesos

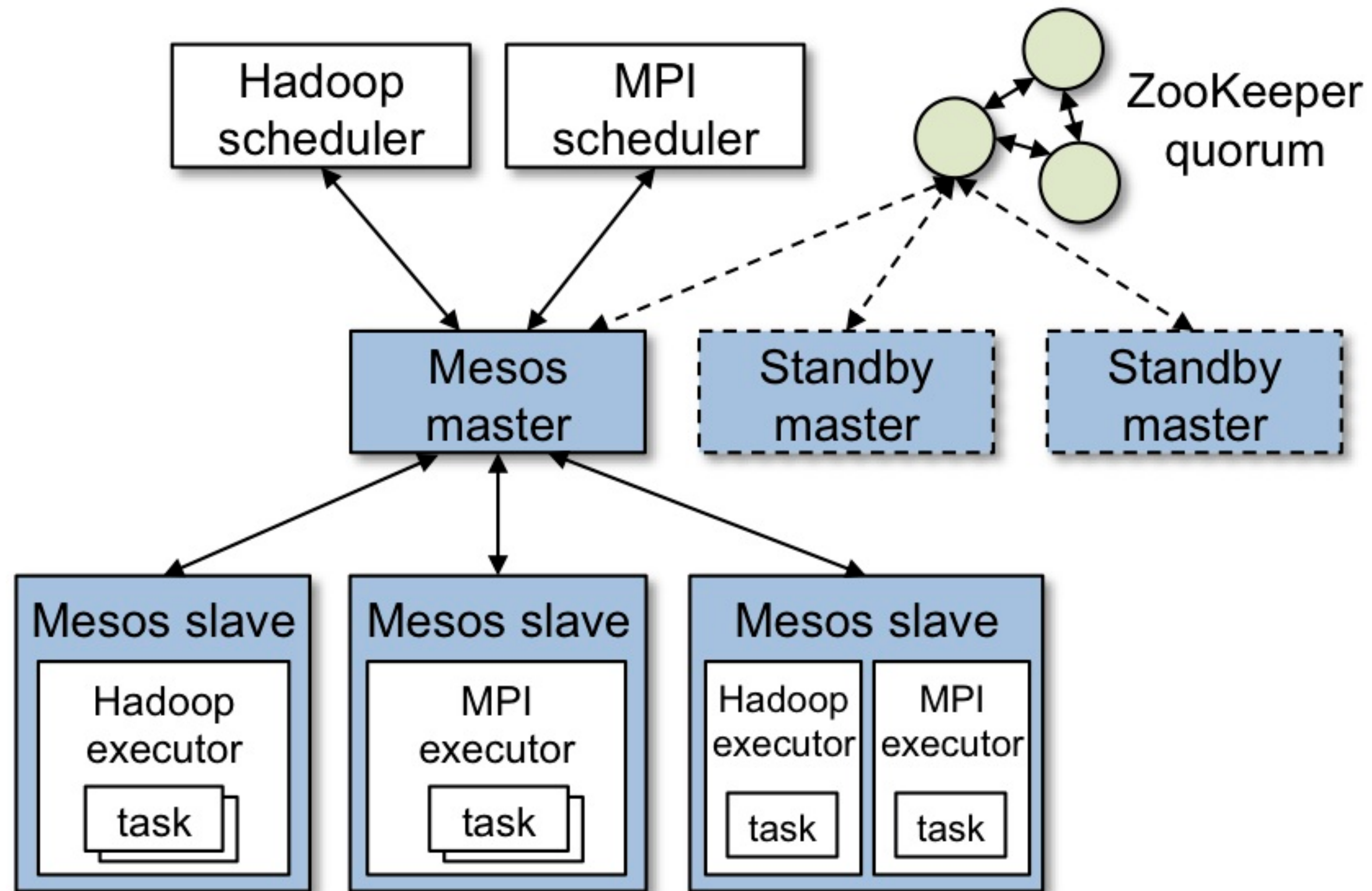
Arun Gupta, @arungupta
VP Developer Advocacy, Couchbase

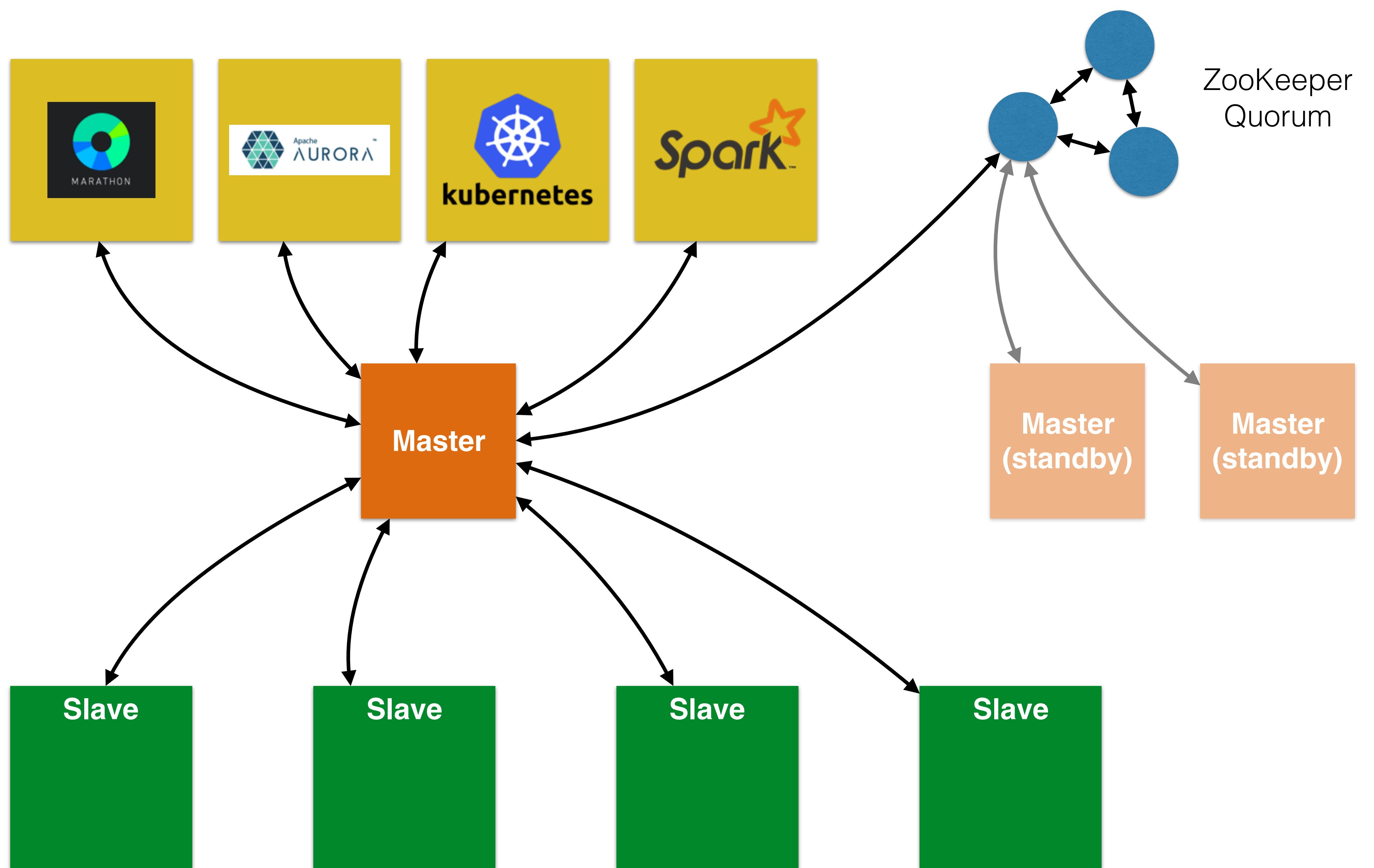


Mesos

- Open source cluster manager
- Developed at UC Berkeley
- Provides efficient resource isolation and sharing across distributed applications, or frameworks

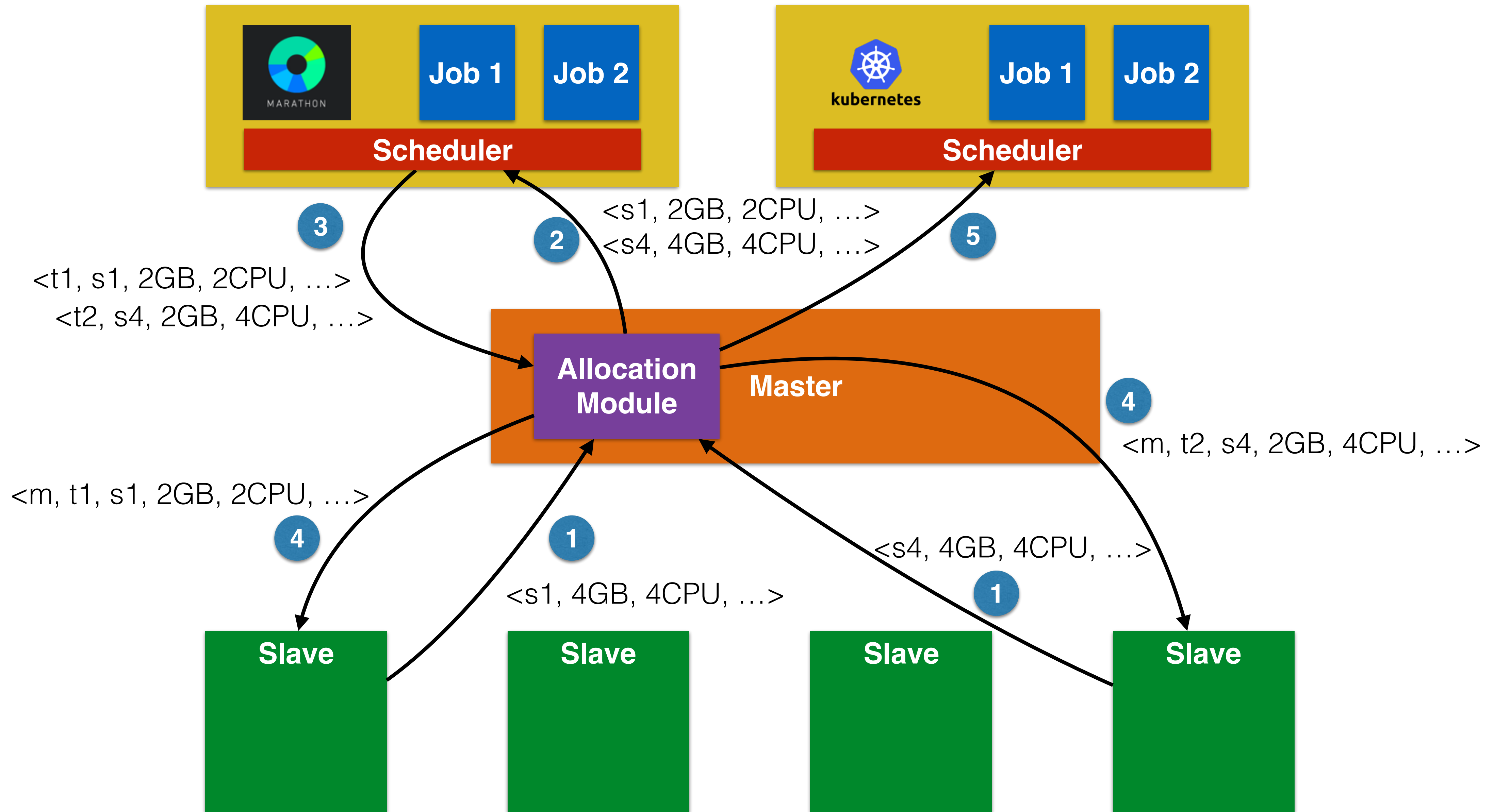
Mesos Architecture





Frameworks

- Frameworks are targeted at a use case and domain-specific
 - Master node “offers” resources to each framework
 - Framework “accepts” the offer and execute applications
- Framework has “scheduler” and “executor”
 - Scheduler registers with the master for “offer”
 - Executor launched on slave nodes to run the task
 - Passes a description of the task to run



- Built using the same principles as the Linux kernel, at a different level of abstraction
 - Computer: Data center
 - Kernel: Mesos
 - Application: Distributed application
 - Operating system: Mesos + Framework + Ecosystem

Workloads



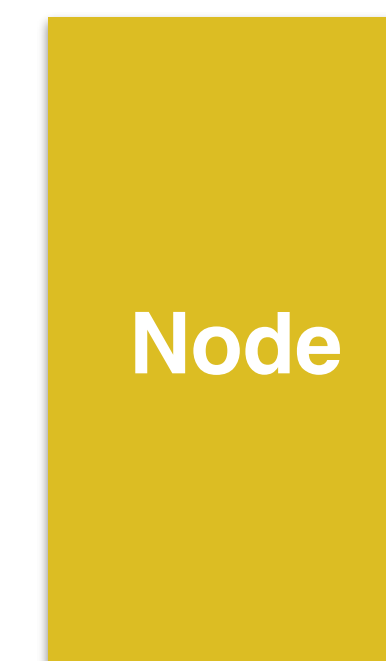
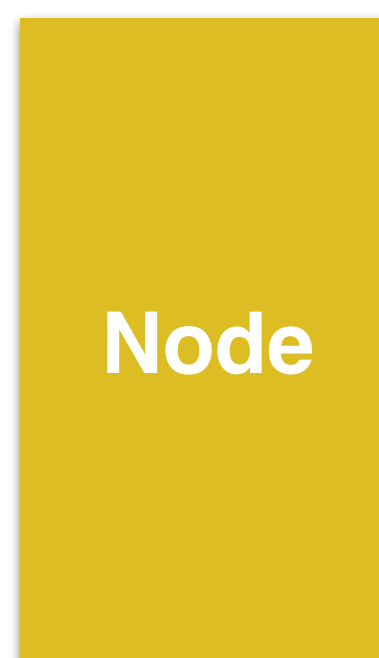
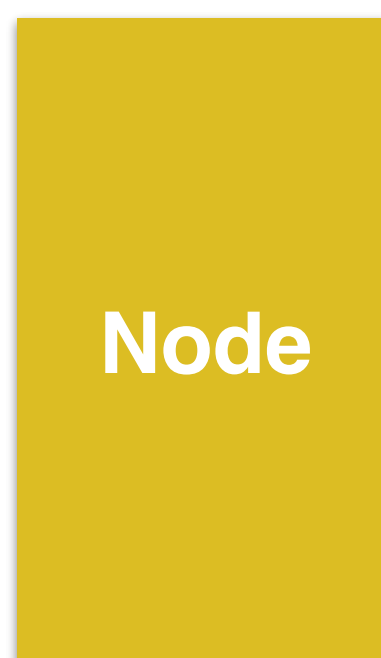
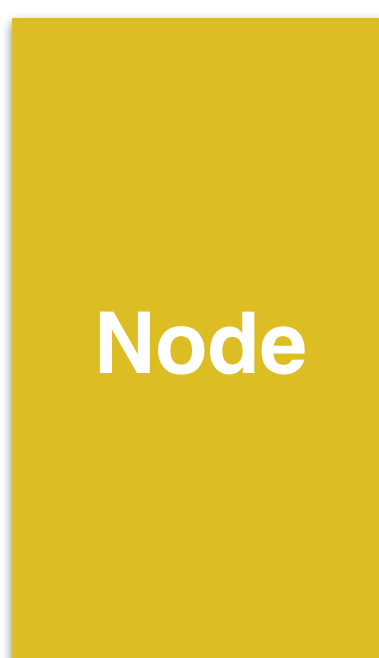
Kernel

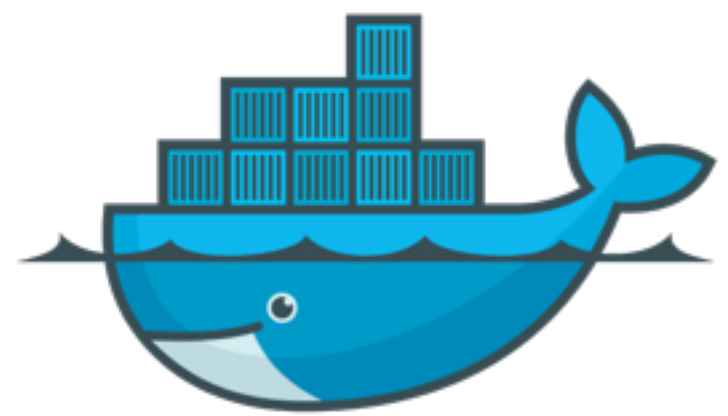


DFS



Cluster





docker



kubernetes



MESOS

References

- github.com/javaee-samples/docker-java
- mesos.apache.org/