Docker Containers

- Shipping container analogy
 - Arbitrary, self-contained goods, standardized units



- Containers reduced loading times → efficient international trade
- #1 Self-contained package of necessary SW and data (read-only image)
- #2 Lightweight virtualization w/ shared OS and resource isolation via cgroups

Cluster Schedulers

- Container orchestration: scheduling, deployment, and management
- Omega, and Kubernetes. CACM 2016]

 → from machine- to applicationoriented scheduling
- Resource negotiation with clients
- Typical resource bundles (CPU, memory, device)
- Examples: Kubernetes, Mesos, (YARN),
 Amazon ECS, Microsoft ACS, Docker Swarm



[[Cloud Computing]]