

Container orchestration



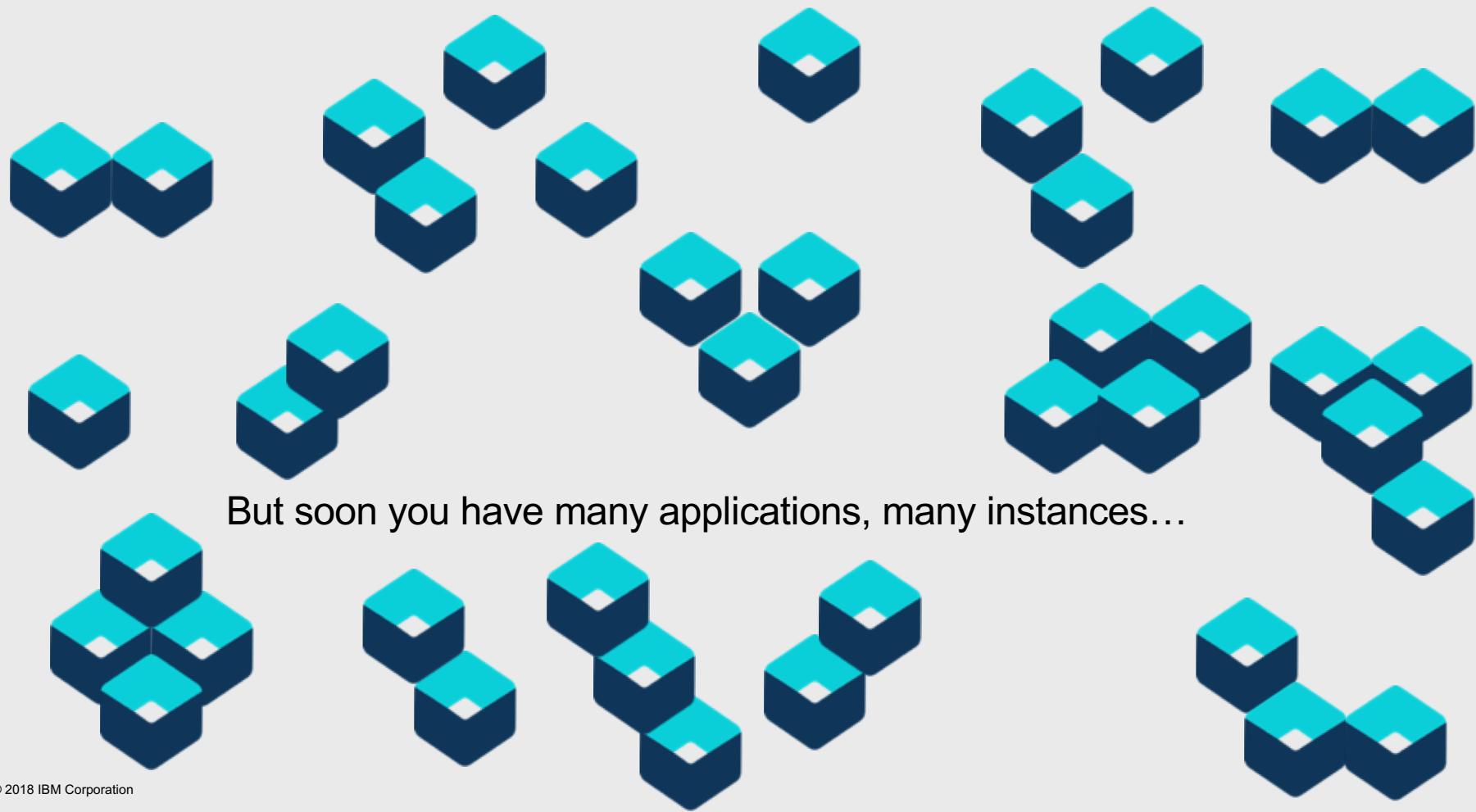


Everyone's container journey starts with one container....



At first the growth is easy to handle....





But soon you have many applications, many instances...

And that is why there is container orchestration



What is container orchestration?

Management of the deployment, placement, and lifecycle of workload containers

Cluster management

- Federates multiple hosts into one target

Scheduling

- Distributes containers across nodes

Service discovery

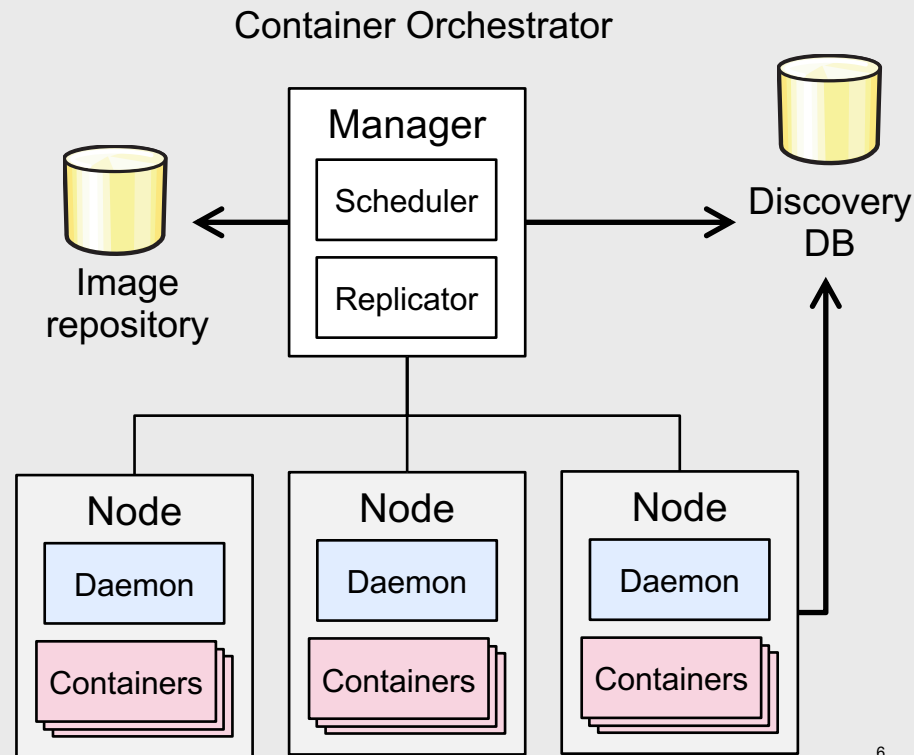
- Knows where the containers are located
- Distributes client requests across the containers

Replication

- Ensures the right number of nodes and containers

Health management

- Replaces unhealthy containers and nodes



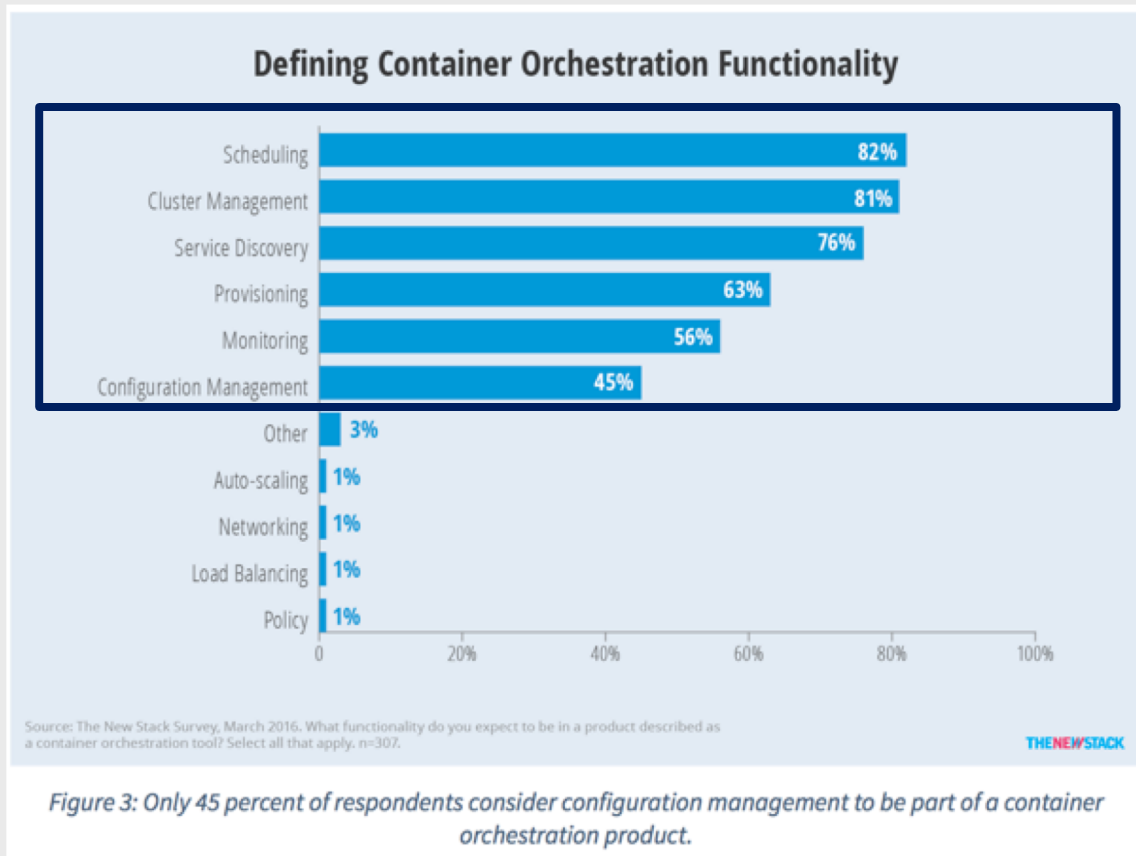
Container orchestration responsibilities

Container orchestration

- Scheduling
- Cluster management
- Service discovery

Related functionality

- Provisioning
- Monitoring
- Configuration management



Container ecosystem layers

