

A Word on Orchestration



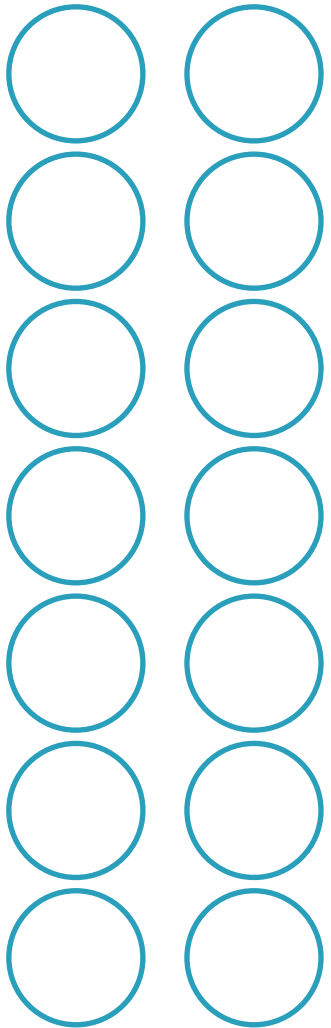
Nigel Poulton

@nigelpoulton www.nigelpoulton.com



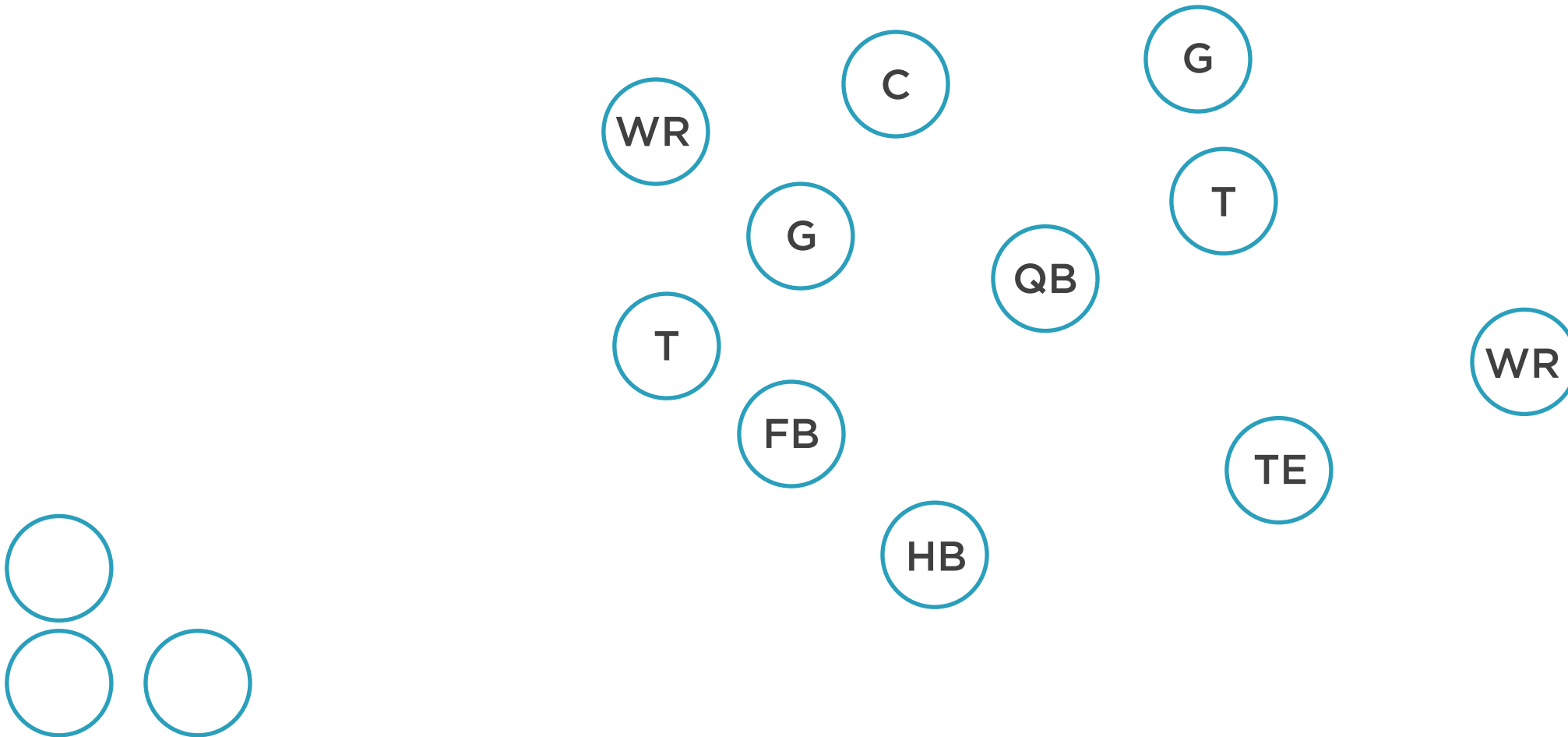
Orchestration - Analogy

Team



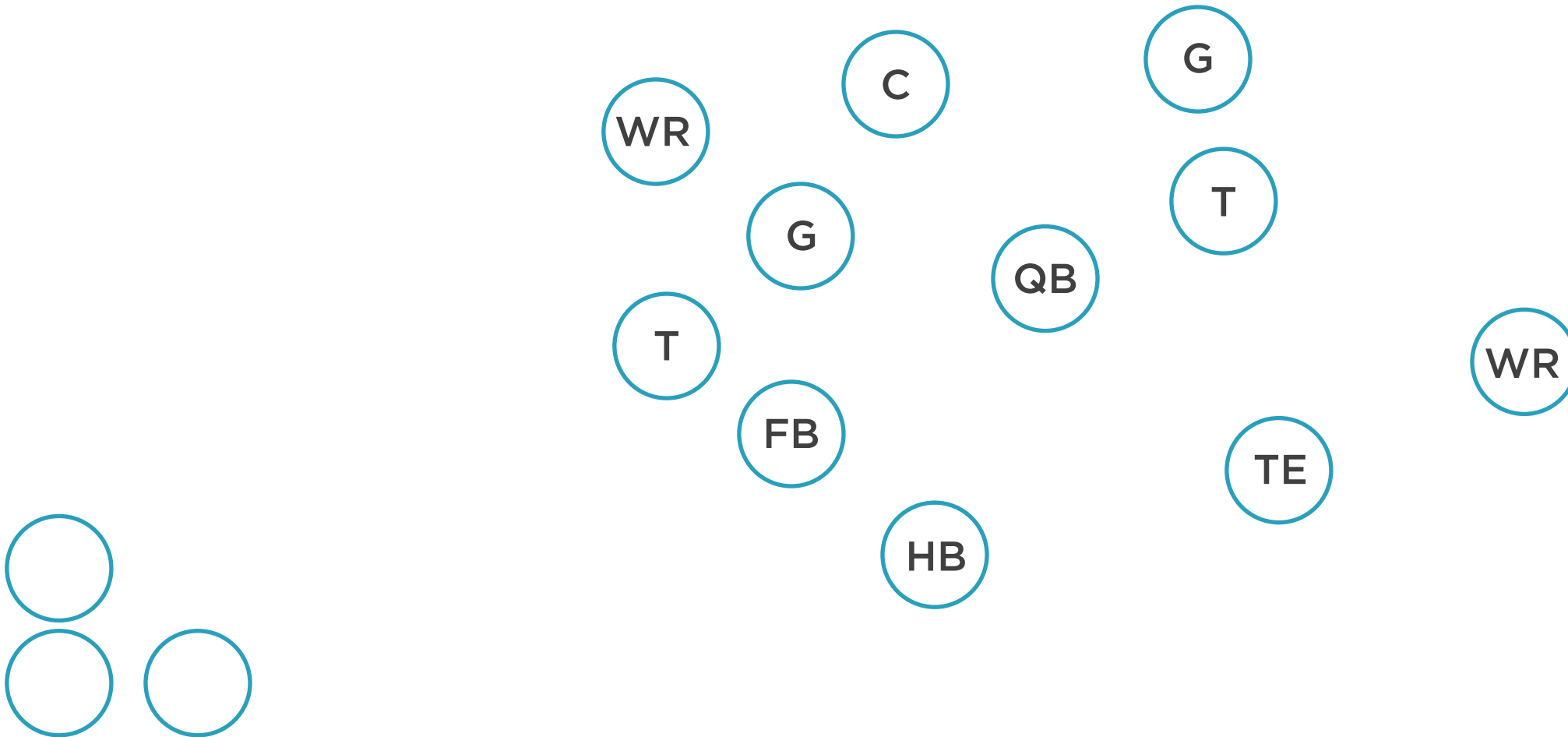
Orchestration - Analogy

Team



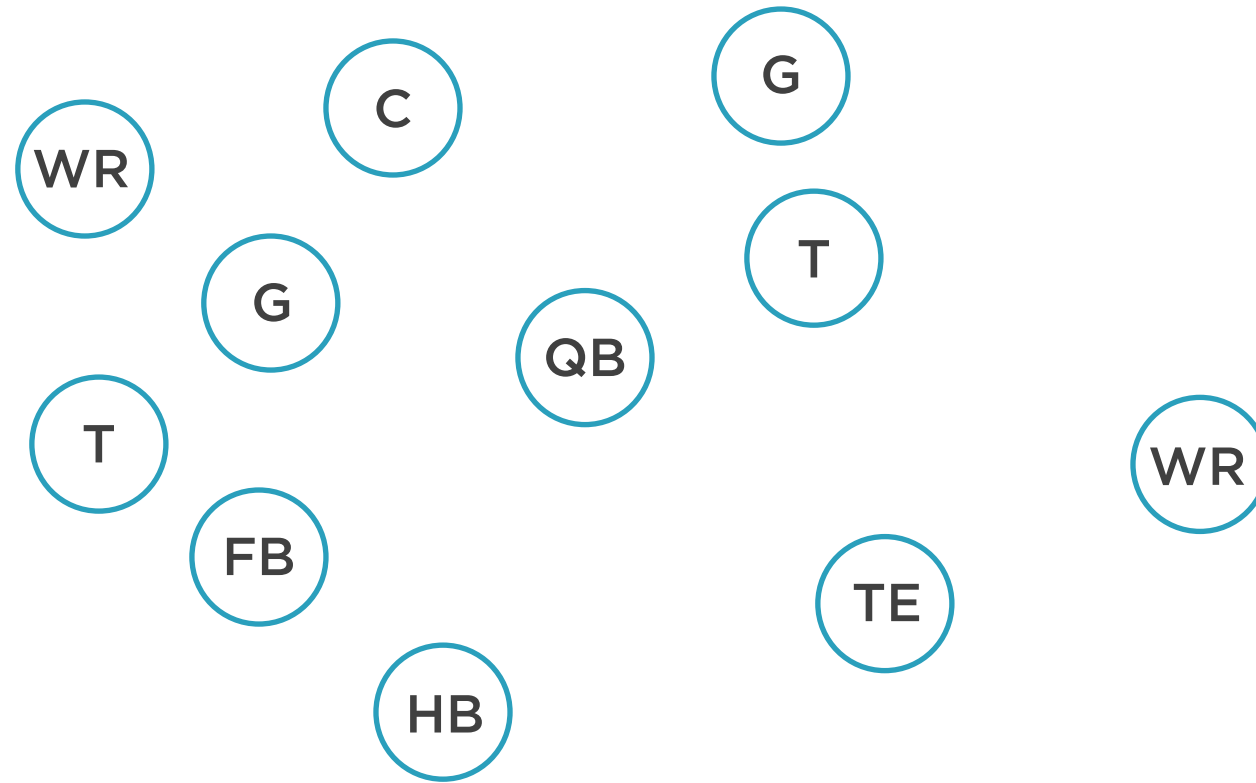
Orchestration - Analogy

Team



Orchestration - Analogy

Team



Orchestration - Analogy

Team



WR

T

G

C

G

T

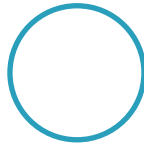
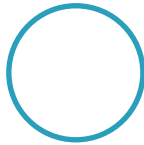
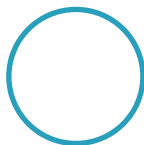
TE

WR

QB

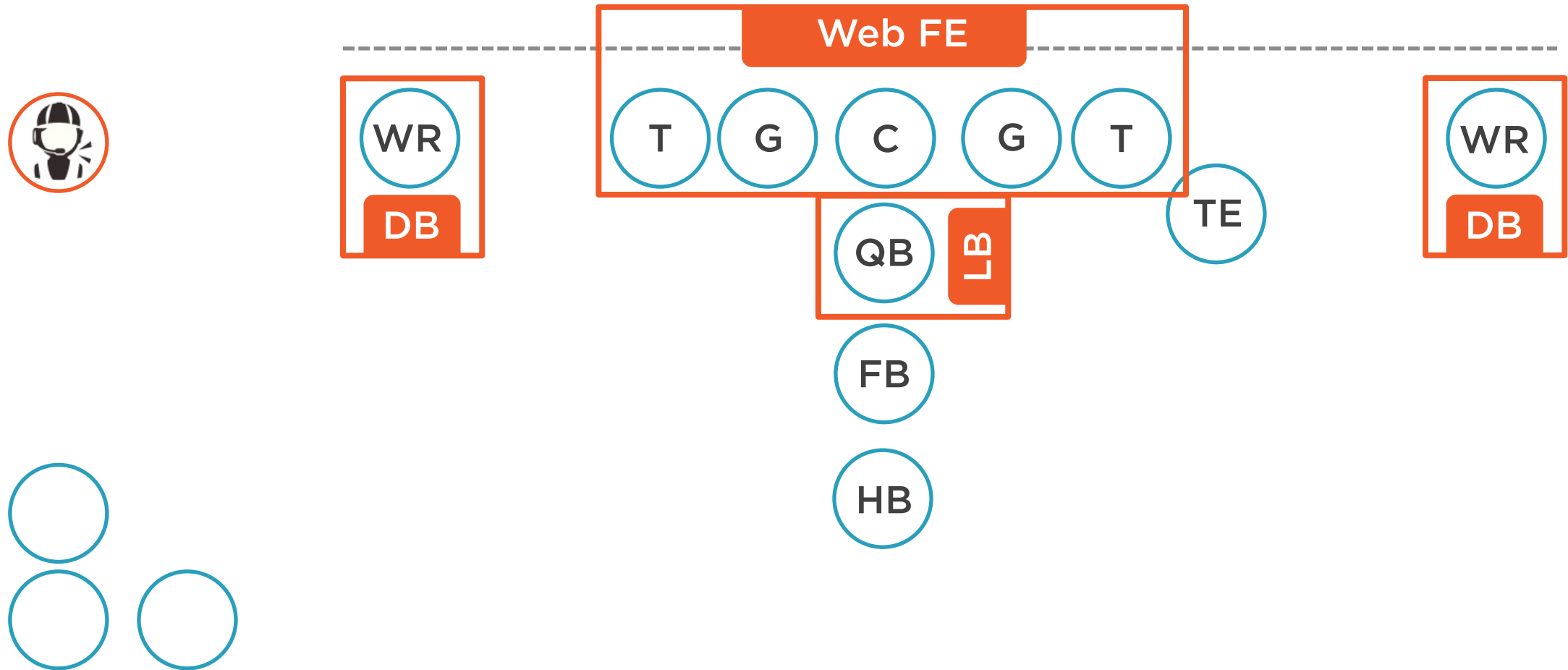
FB

HB



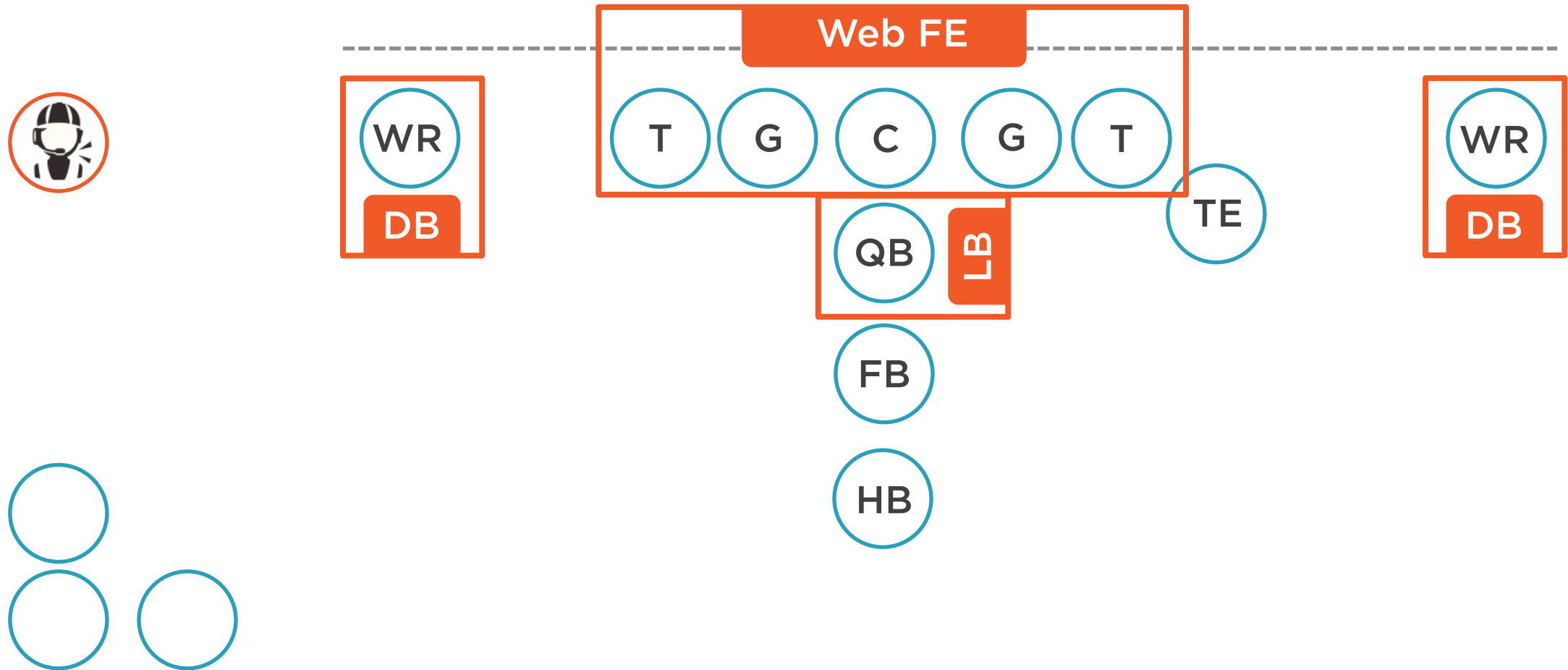
Orchestration - Analogy

Team



Orchestration - Analogy

Team



Apps comprise:

- Multiple parts (services)
- Multiple requirements

Orchestration

Scale makes things
very complex



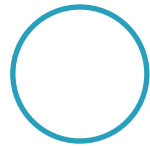
Apps comprise:

- Multiple parts (services)
- Multiple requirements

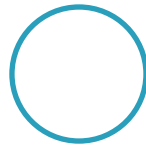
Game Plan:

- Describes the app

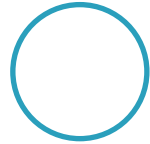
Game Plan



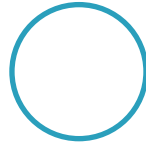
HTTPS



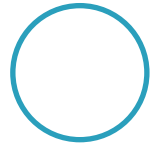
HTTPS



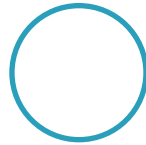
Search



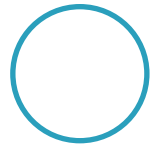
Auth



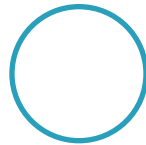
K/V store



MySQL



Log



Load
balancer



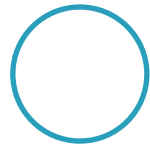
Apps comprise:

- Multiple parts (services)
- Multiple requirements

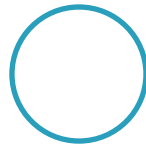
Game Plan:

- Describes the app

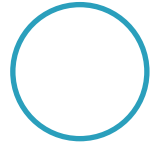
Game Plan



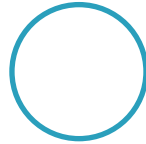
HTTPS



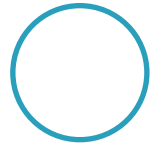
HTTPS



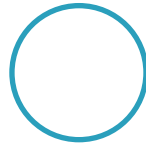
Search



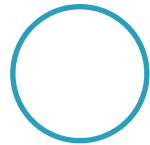
Auth



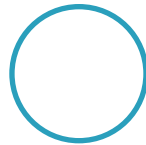
K/V store



MySQL



Log



Load
balancer



Apps comprise:

- Multiple parts (services)
- Multiple requirements

Game Plan:

- Describes the app

Document Game Plan in
version control system

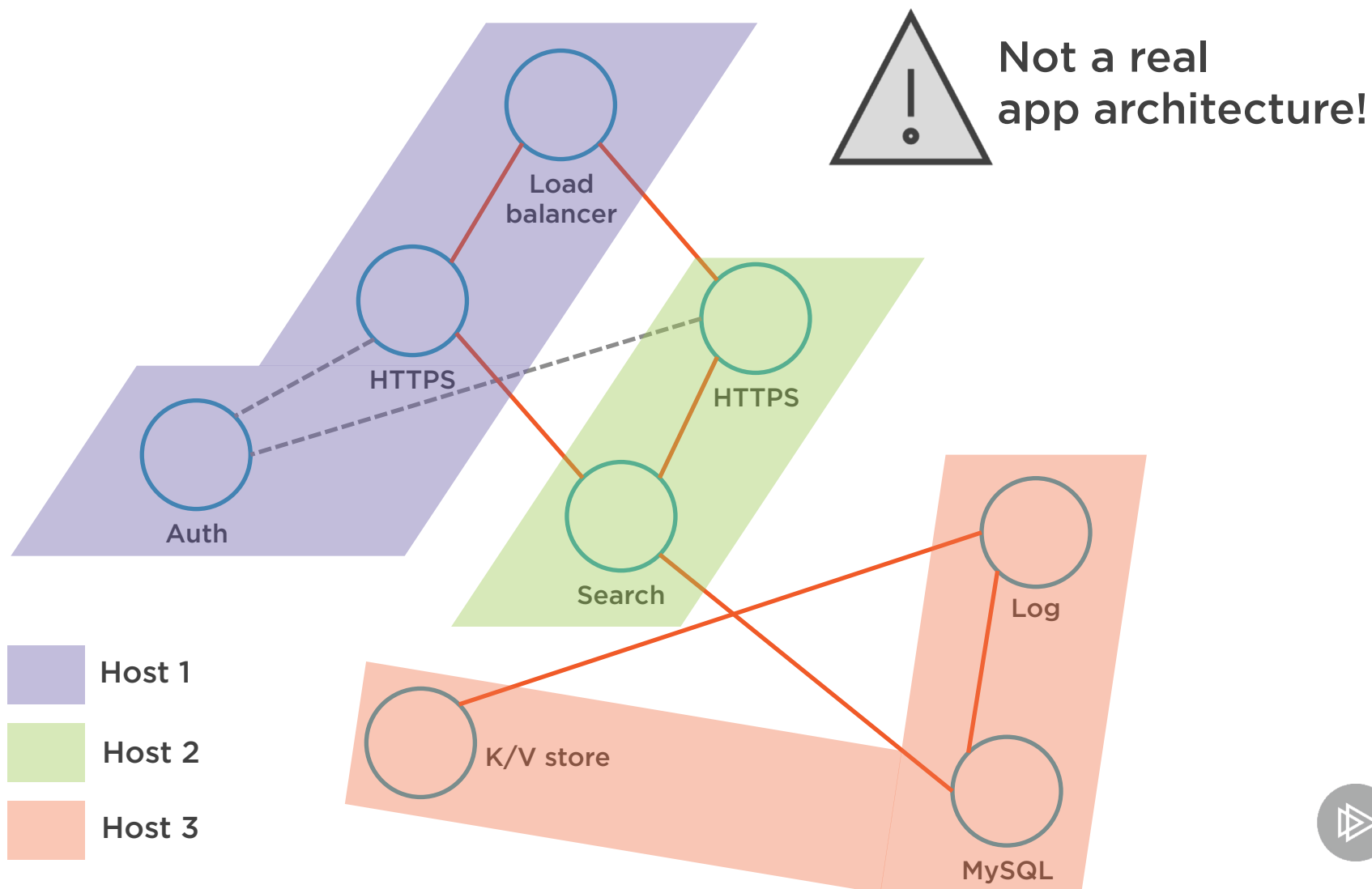
Key to automation

- Ordered startups
- Intelligent scheduling
- More...

Give Game Plan to
orchestrator (K8s)

Let orchestrator deploy
and manage app

Game Plan



Apps comprise:

- Multiple parts (services)
- Multiple requirements

Game Plan:

- Describes the app

Document Game Plan in
version control system

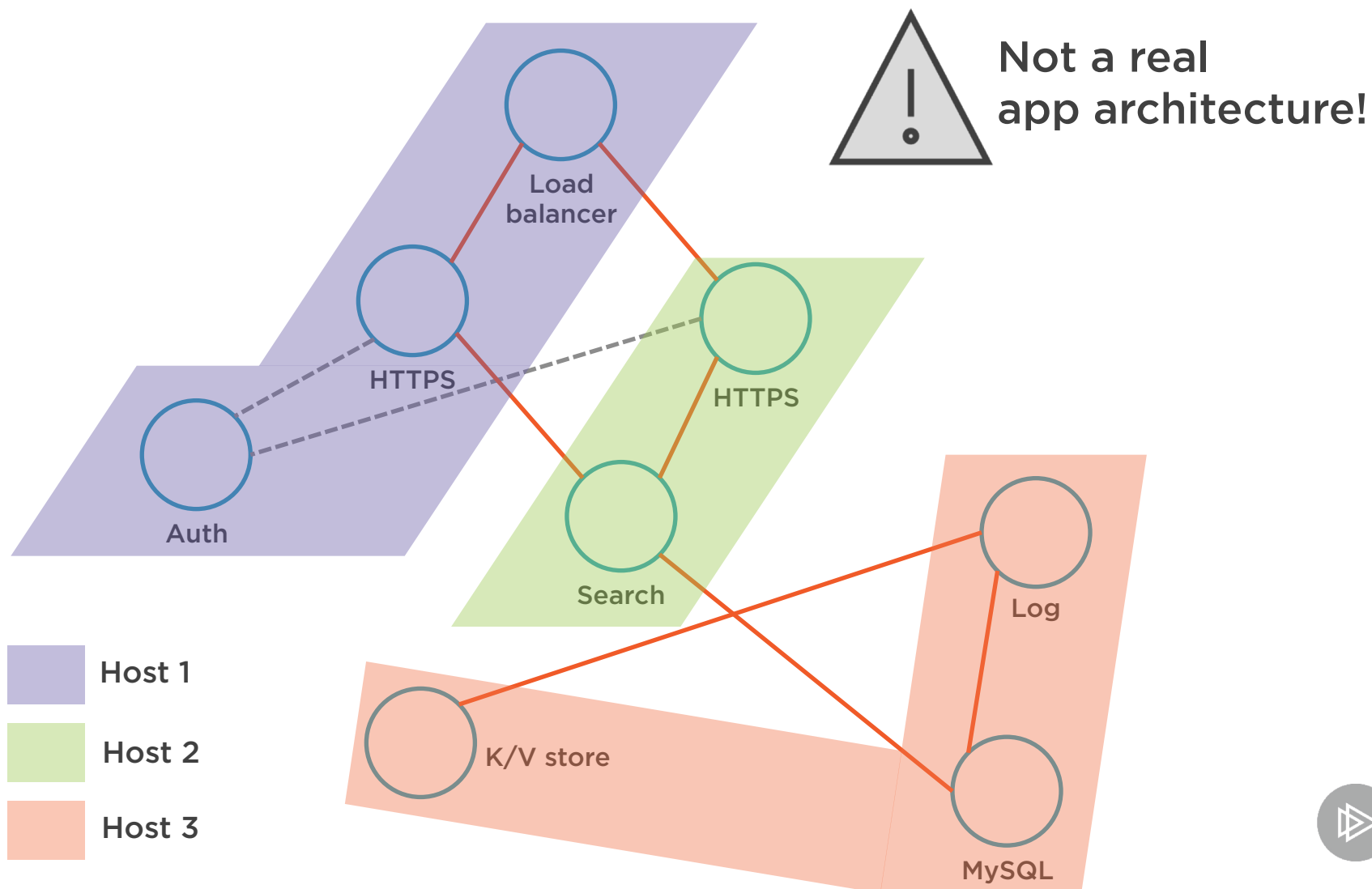
Key to automation

- Ordered startups
- Intelligent scheduling
- More...

Give Game Plan to
orchestrator (K8s)

Let orchestrator deploy
and manage app

Game Plan

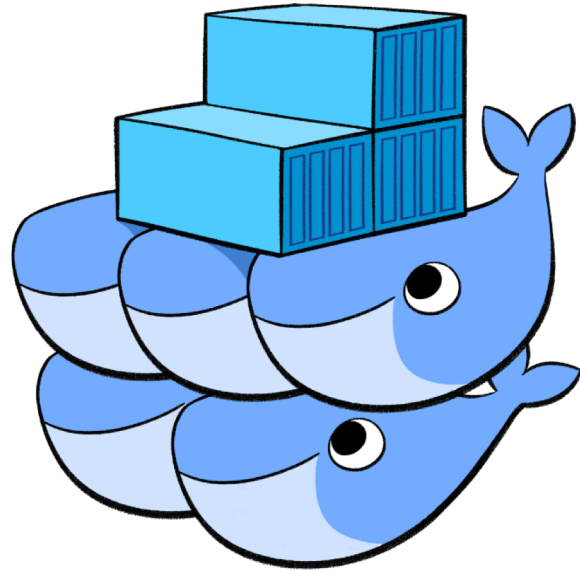






Getting Started with Kubernetes (course)





Getting Started with Kubernetes (course)



Summary



Web



Cart

Search

Web

Catalog

DB



Cart

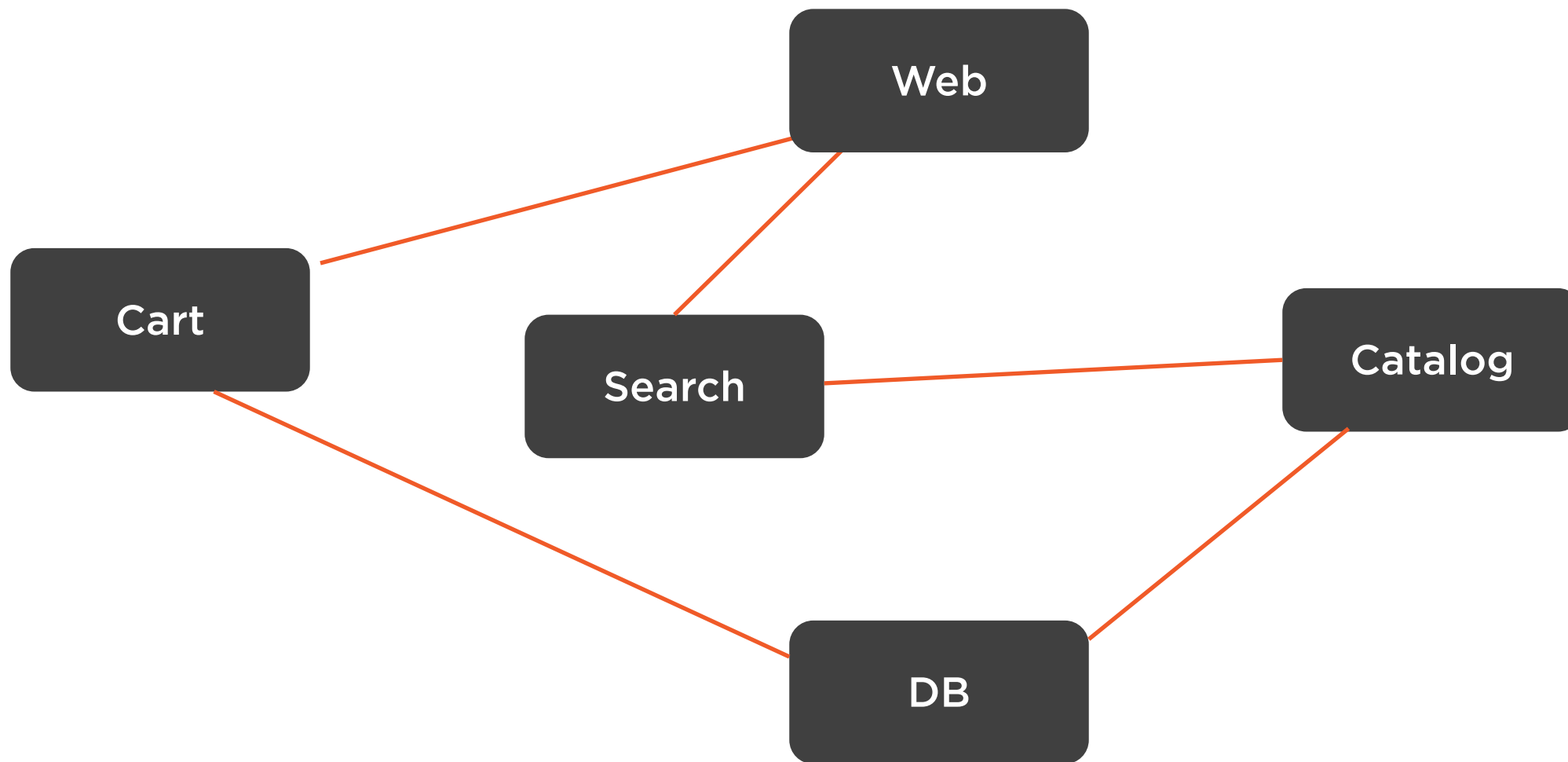
Search

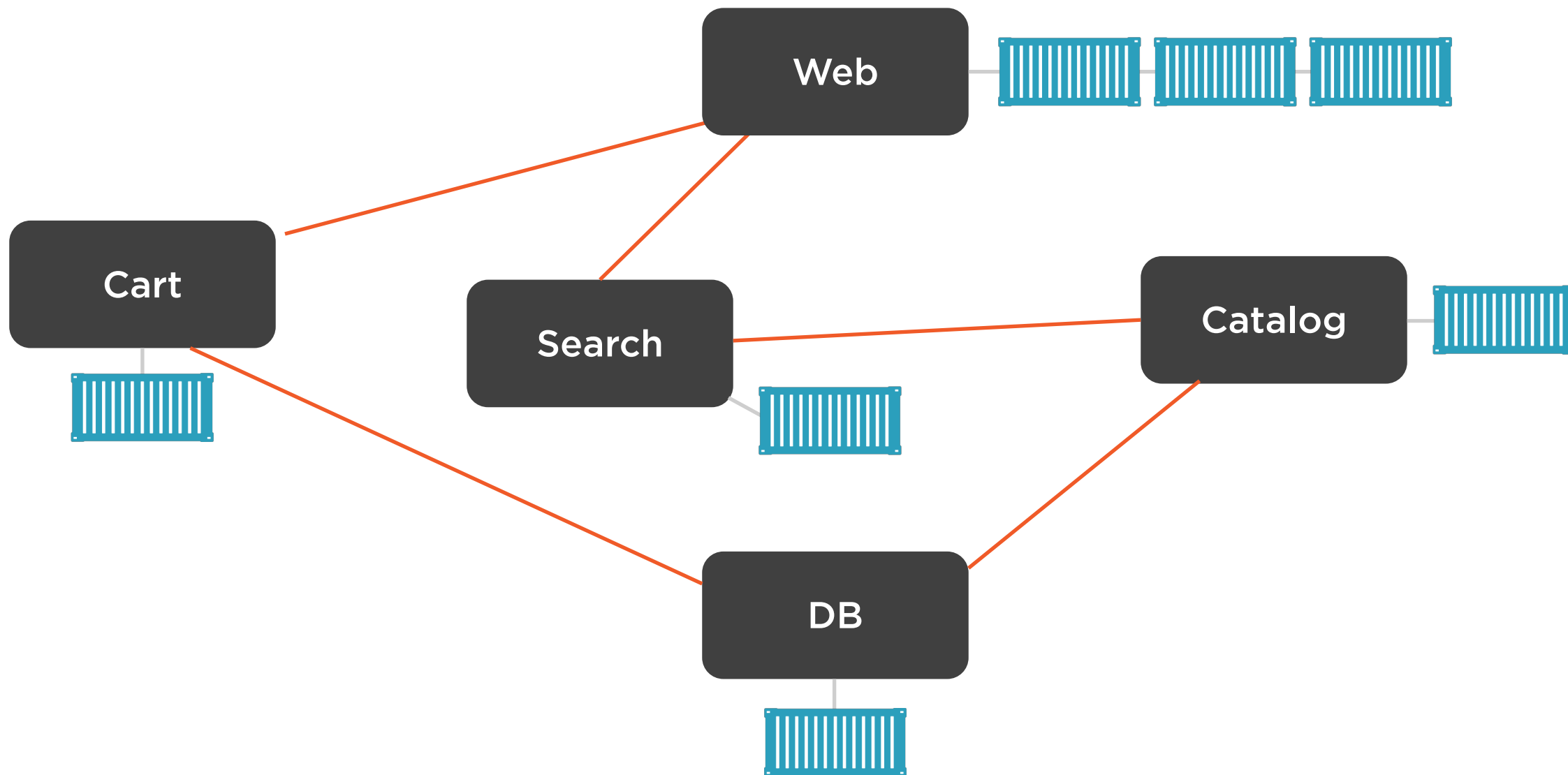
Web

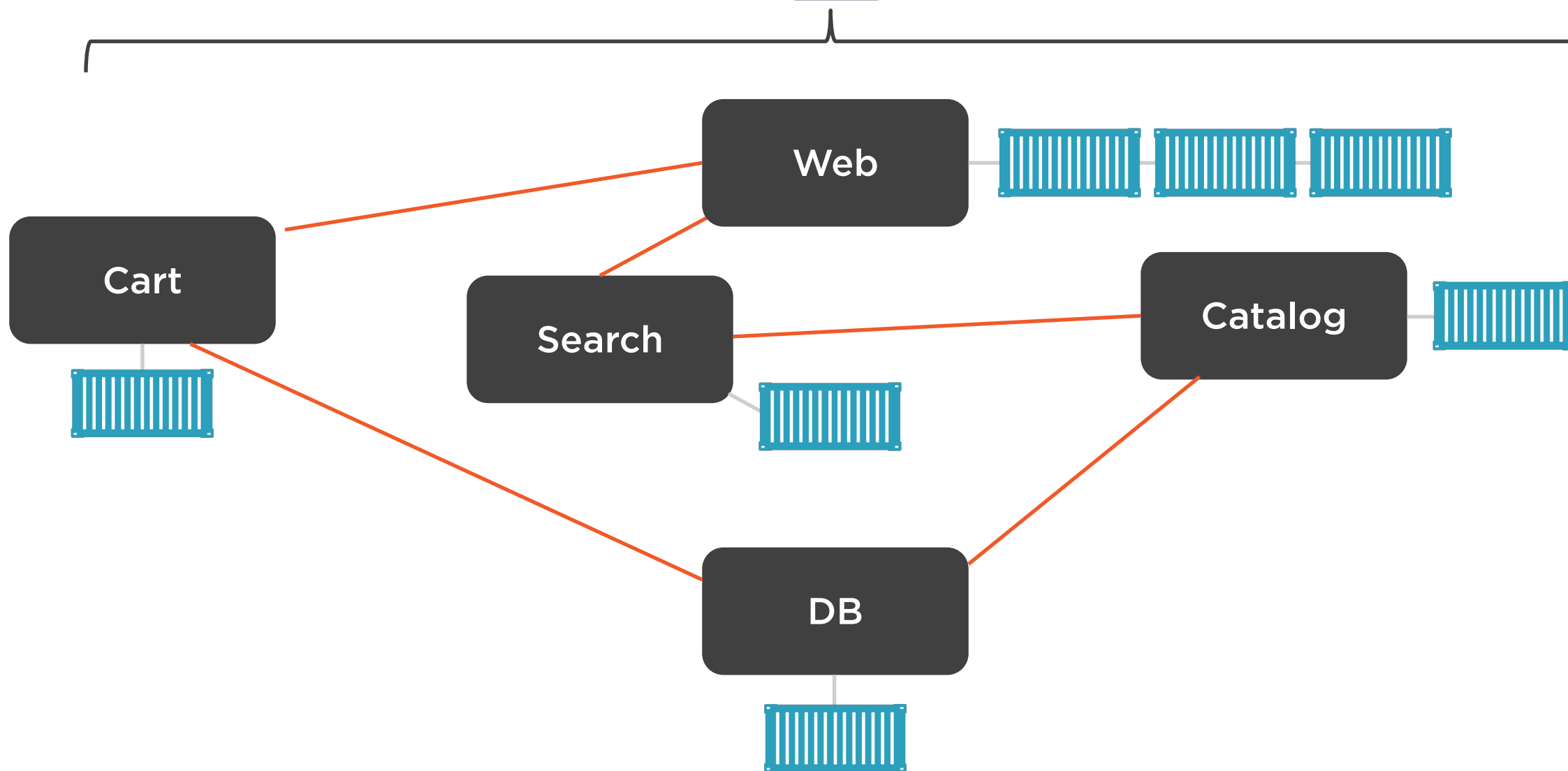
Catalog

DB









Sports Team

Coach

Game Plan

Players

Application

Orchestrator

App manifest

Services

