

### Containelinsation

### Roadmap



Microservices Architecture

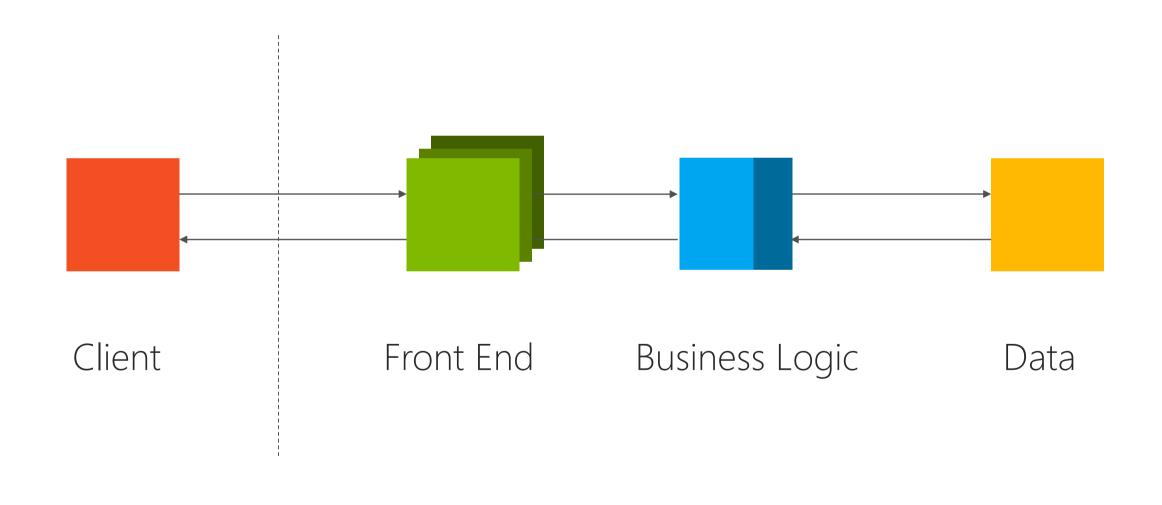
Containerisation

Orchestration

Azure Services

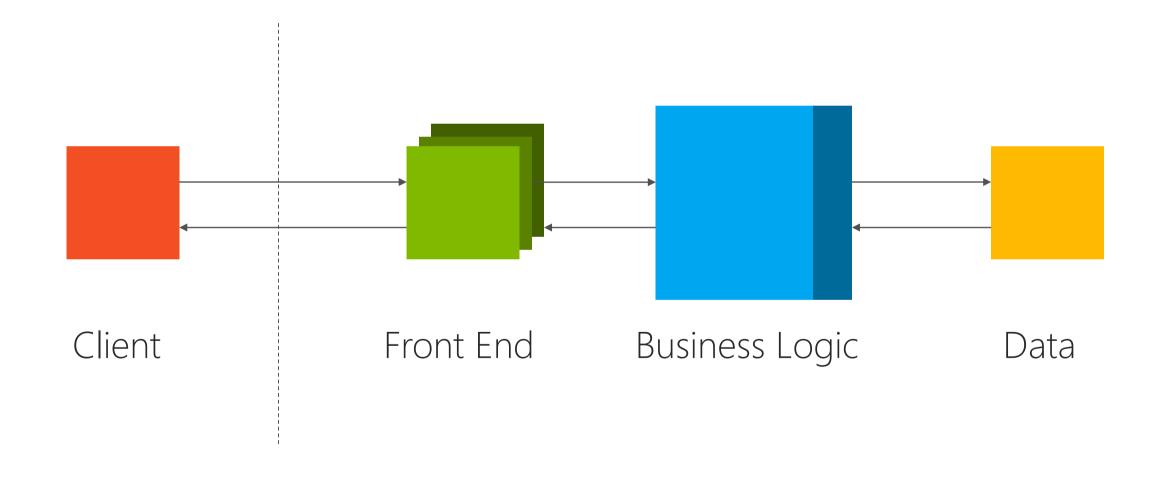
### Monolith

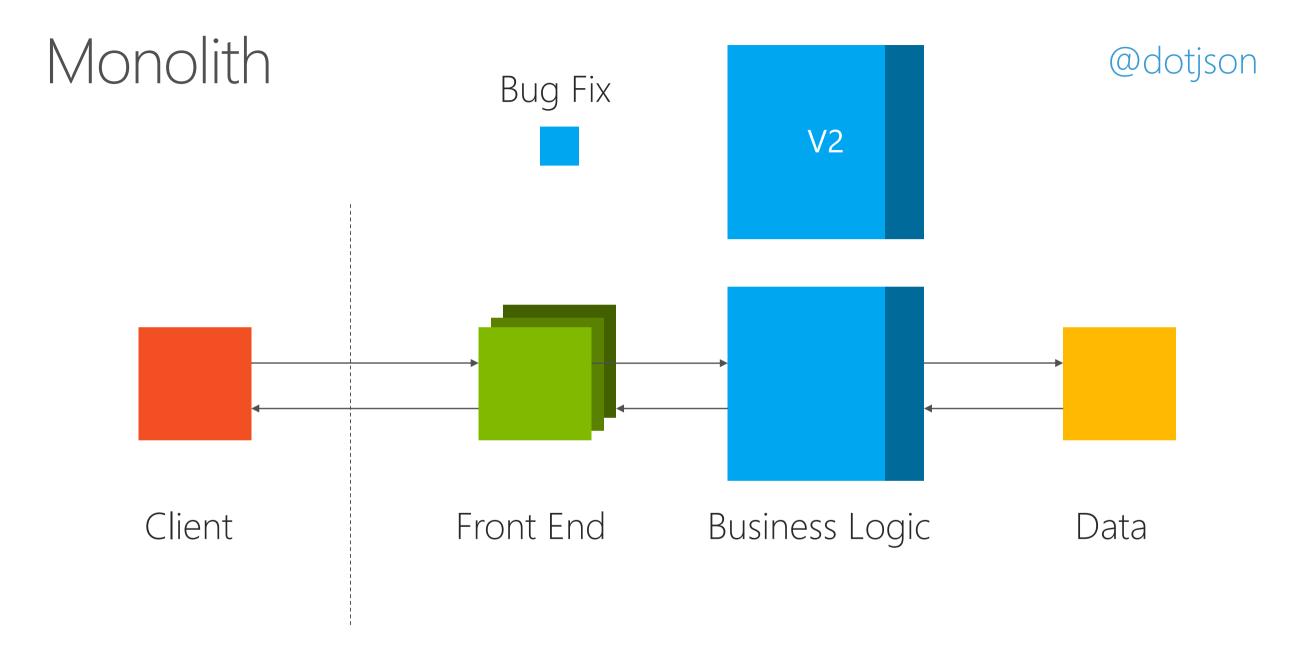


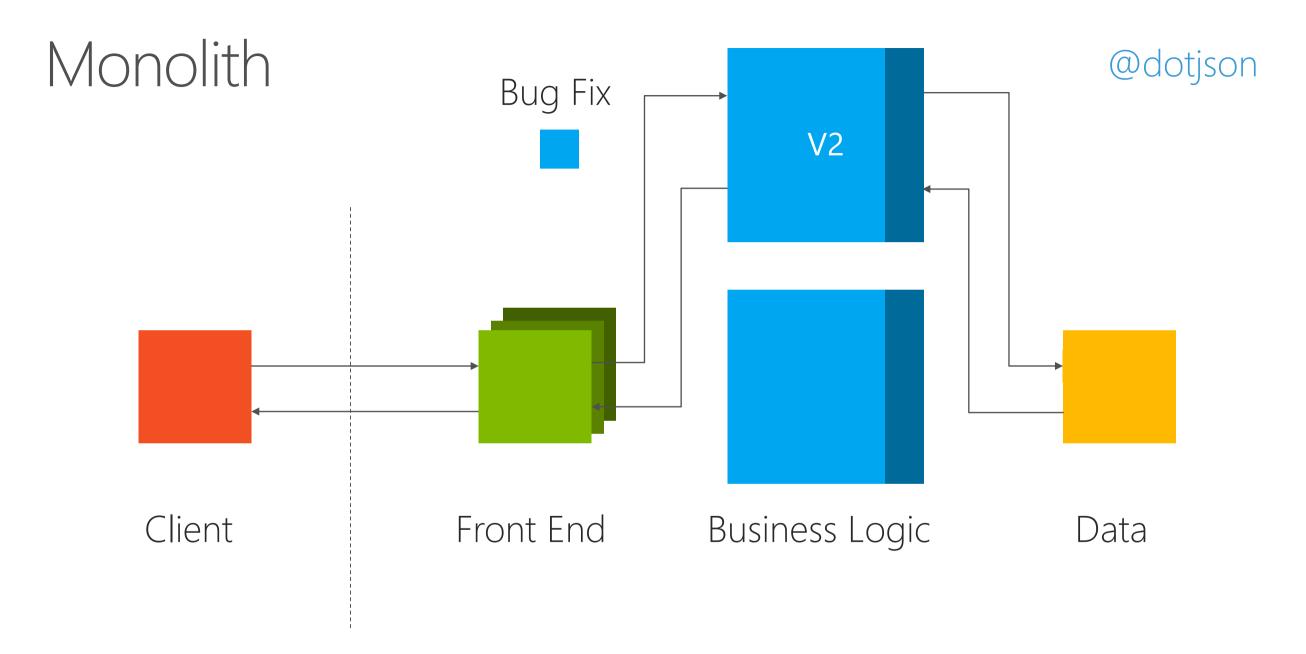


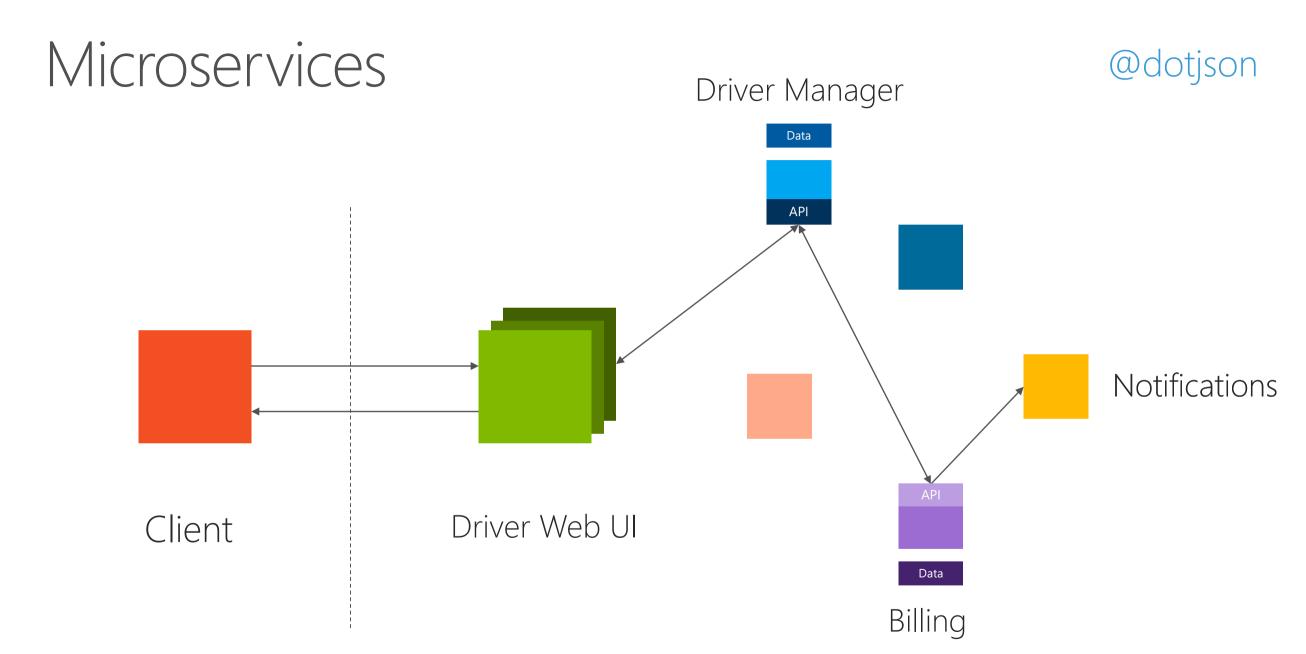
### Monolith

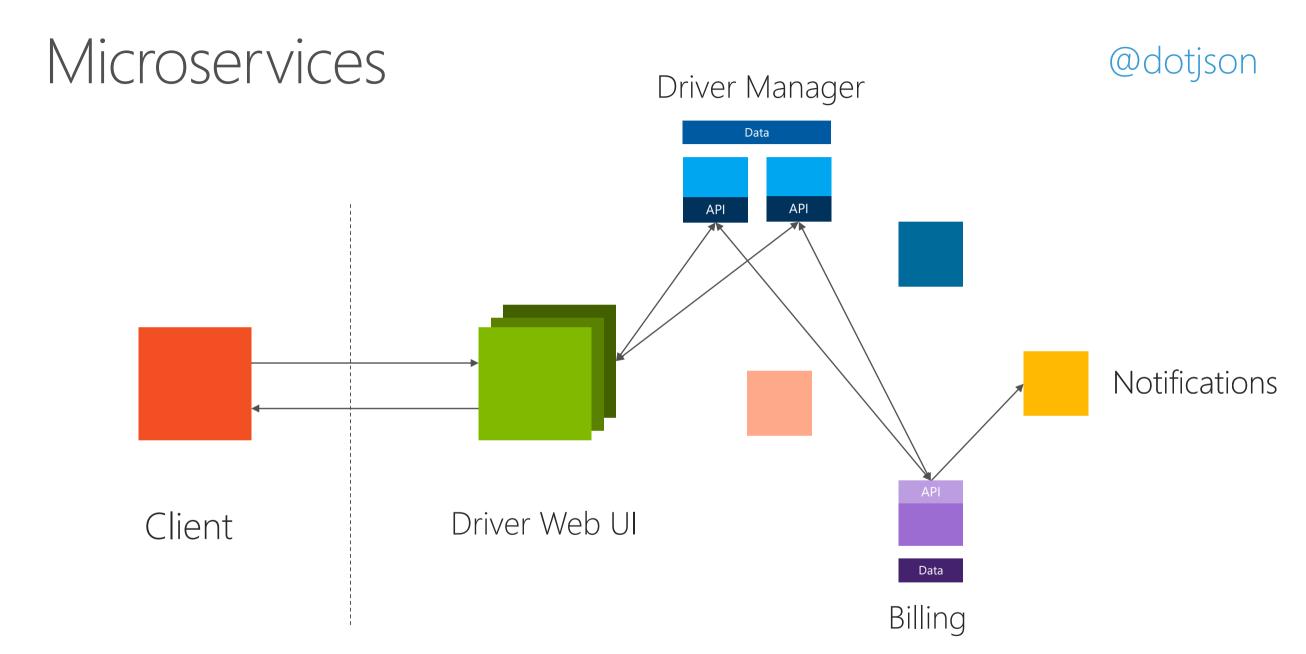


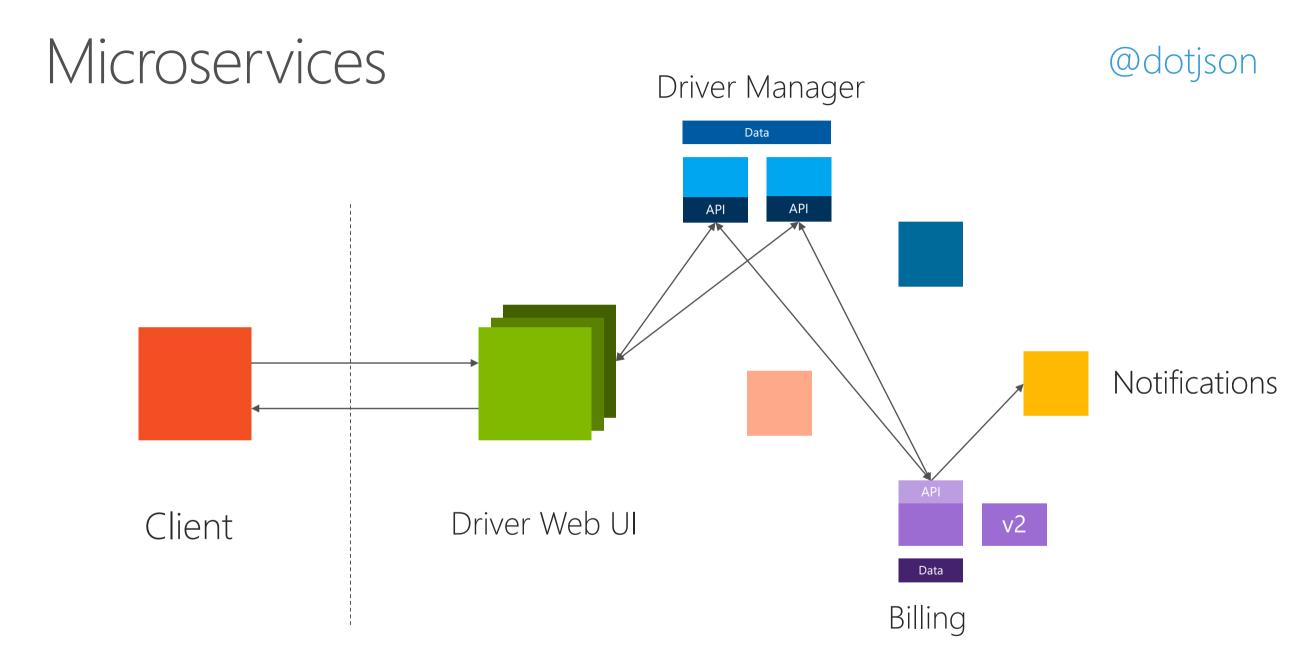








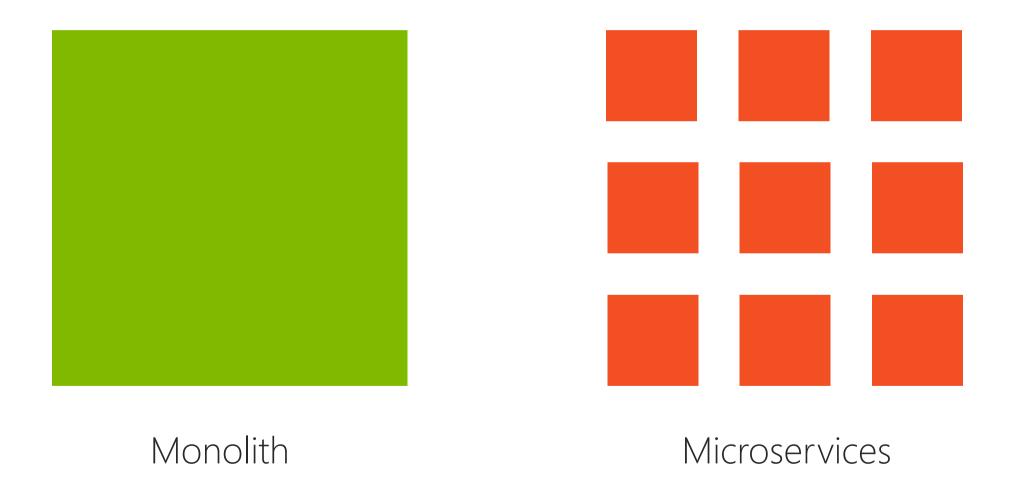




Microservices @dotjson Driver Manager Data API Notifications Client Driver Web UI Data Billing

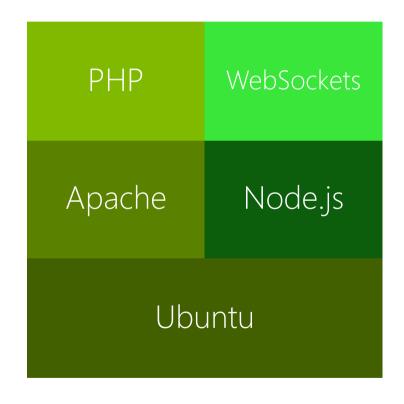
### Infrastructure



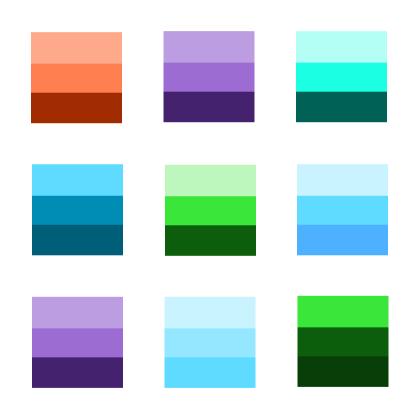


## Dependencies



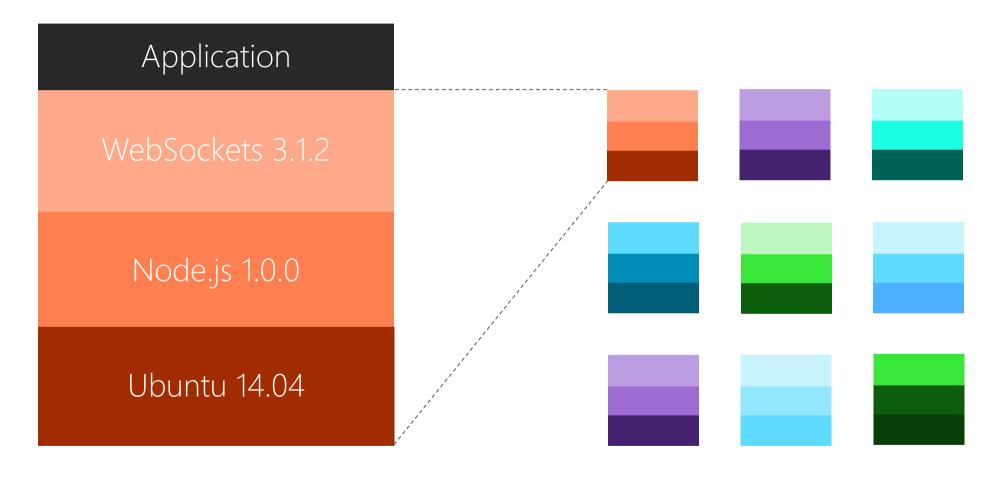






### Isolating dependencies

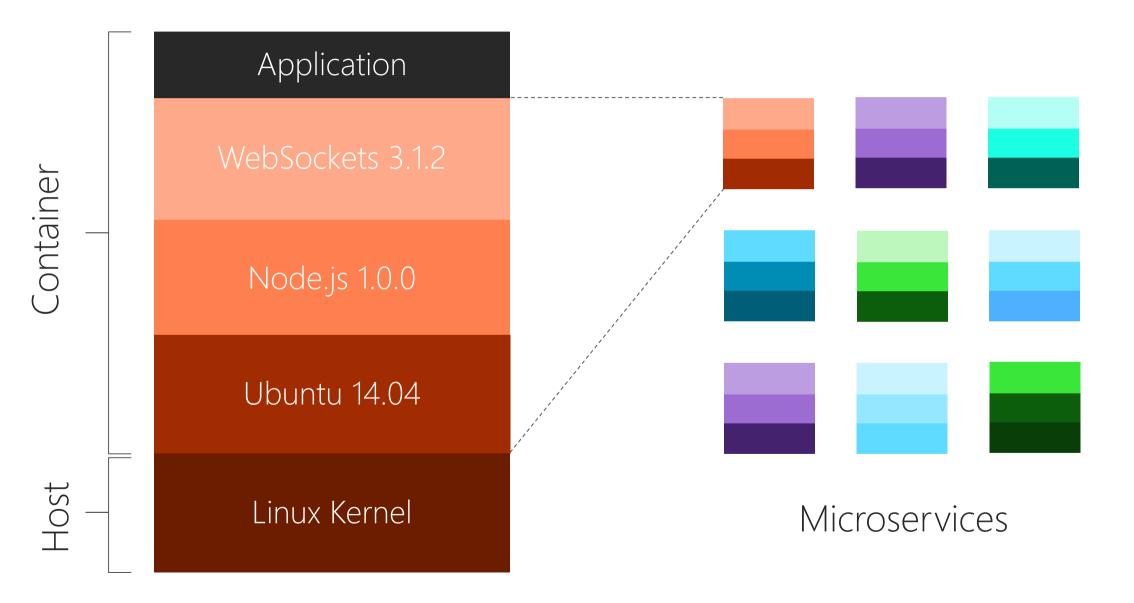




Microservices

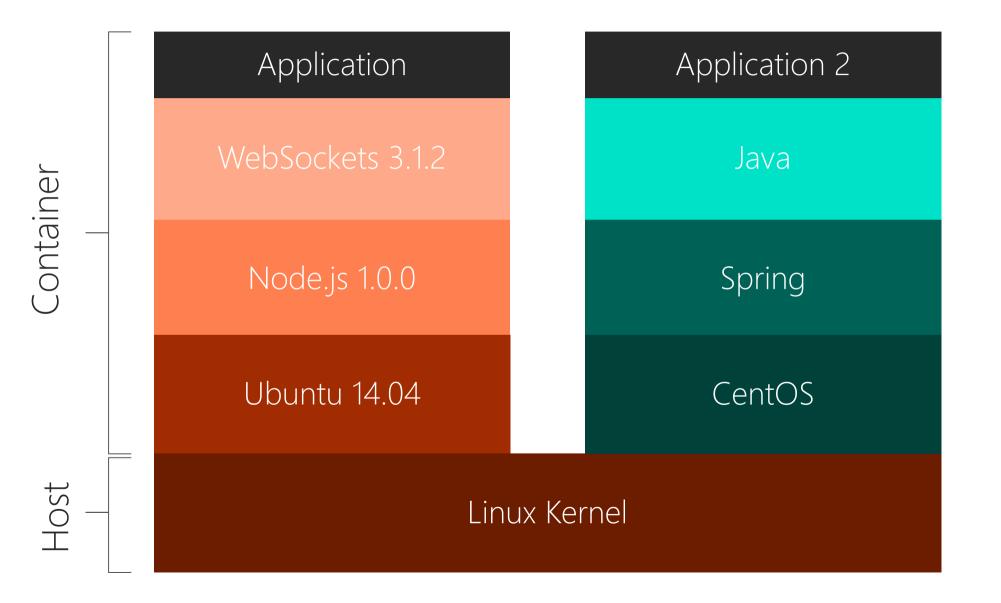
#### Containerisation





#### Containerisation



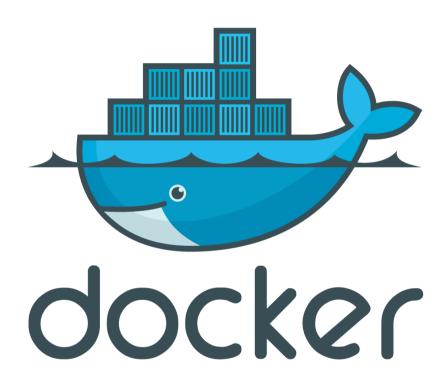






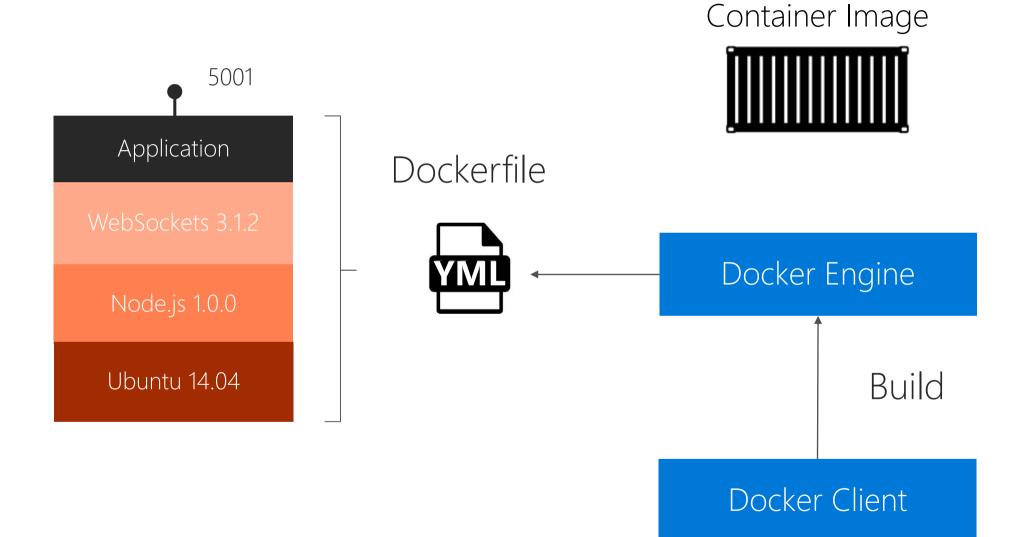






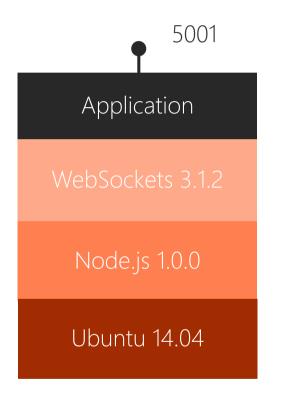
### Docker ecosystem





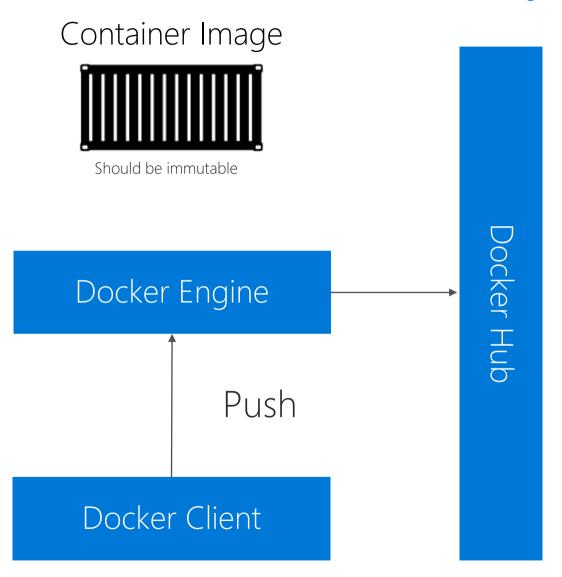
### Docker ecosystem

@dotjson



Dockerfile





## Docker Compose

@dotjson

Container Image 1

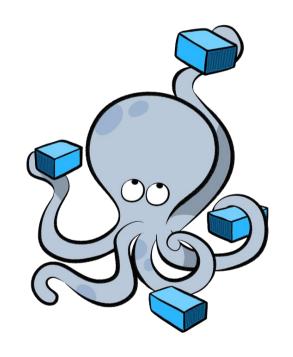


Container Image 2



Container Image 3





Docker-Compose

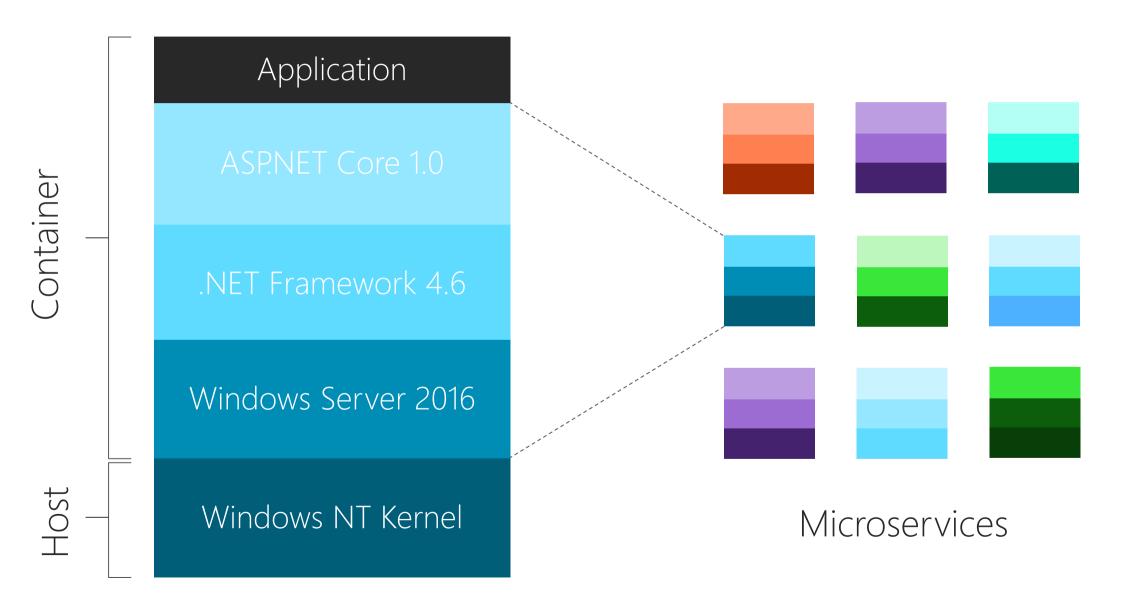


Requirements



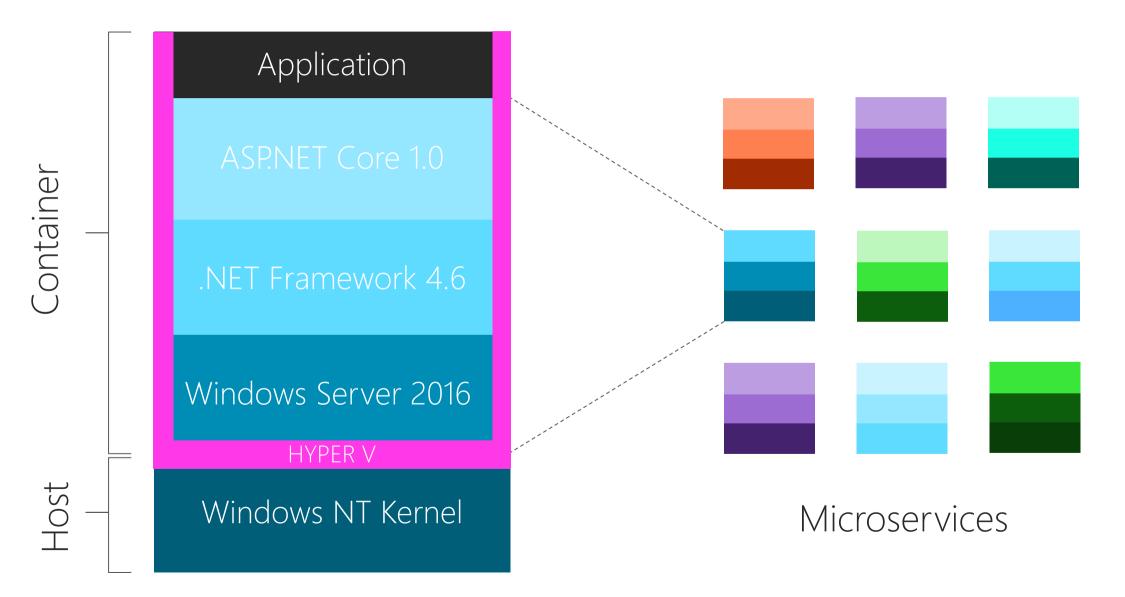
#### Docker on Windows





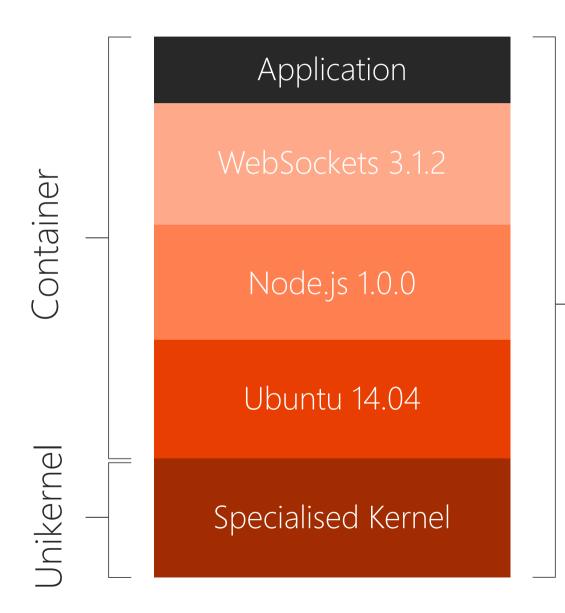
### Docker on HyperV

@dotjson



#### Docker on Unikernel





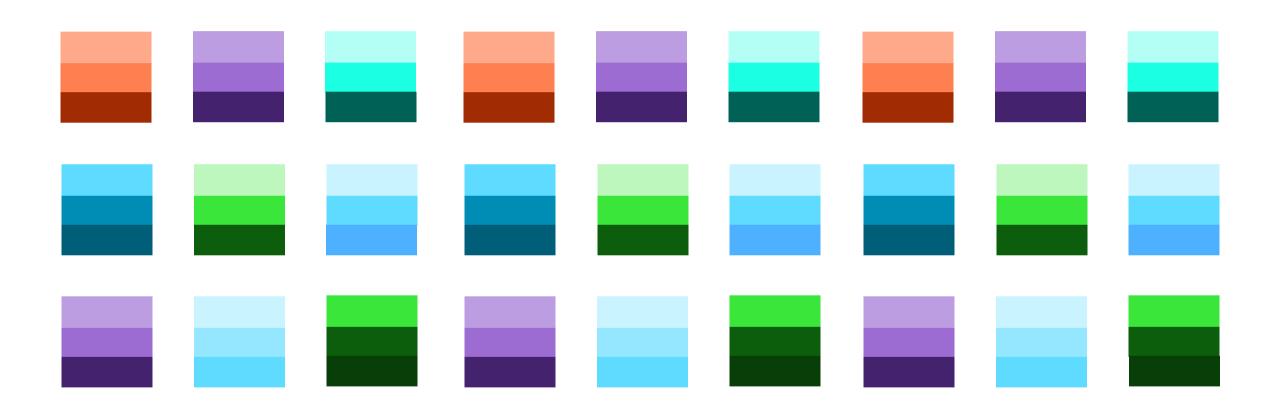
Smaller attack surface

Tiny memory footprint

No disk?!

\*Not for production environments

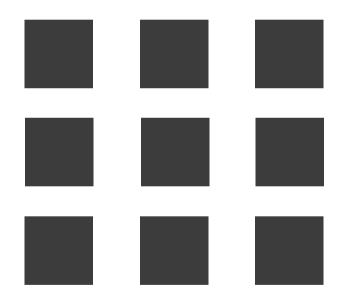
#### @dotjson



Microservices

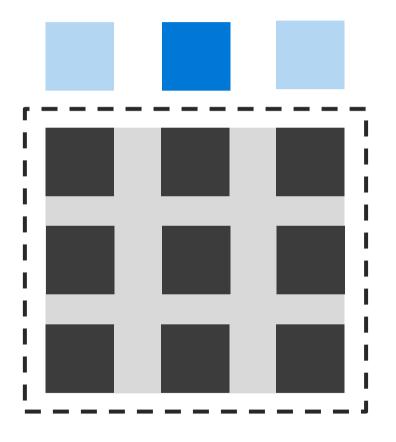
#### Service orchestration





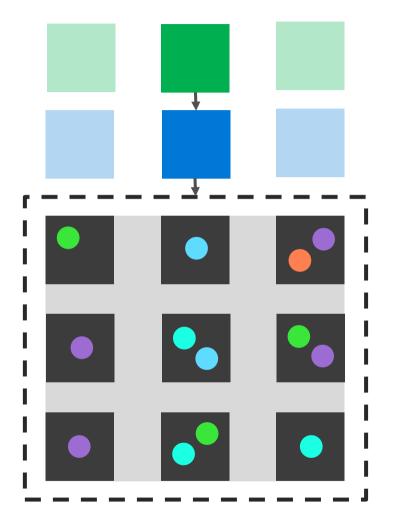
# Clustering





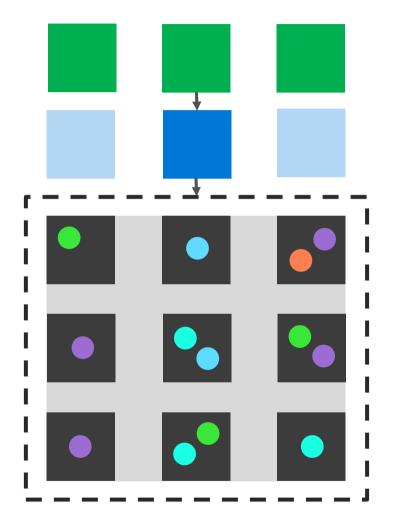
# Scheduling





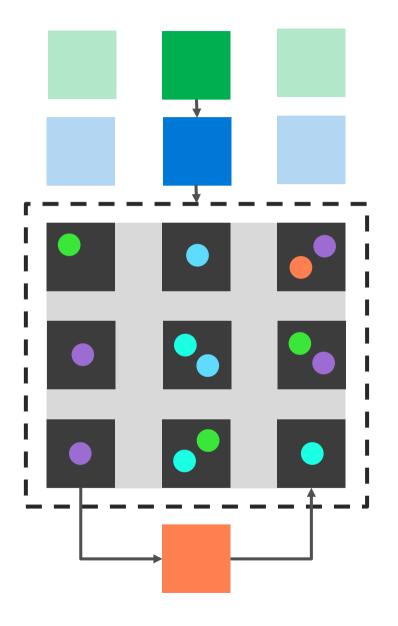
### Leader Election





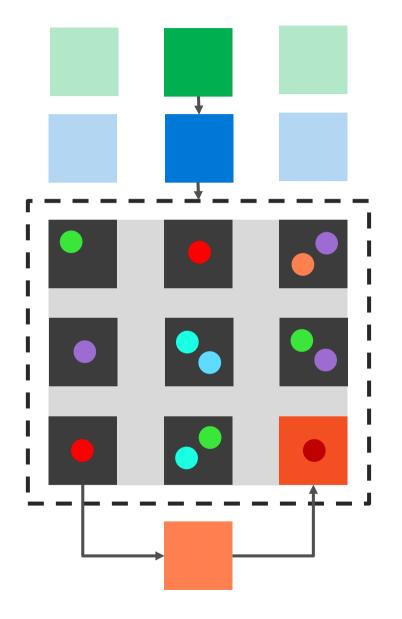
## Discovery

#### @dotjson



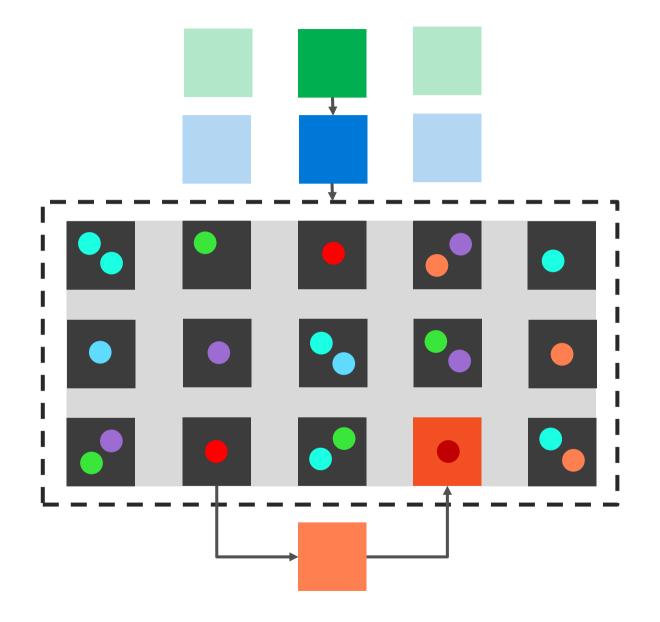
### Health + Failure



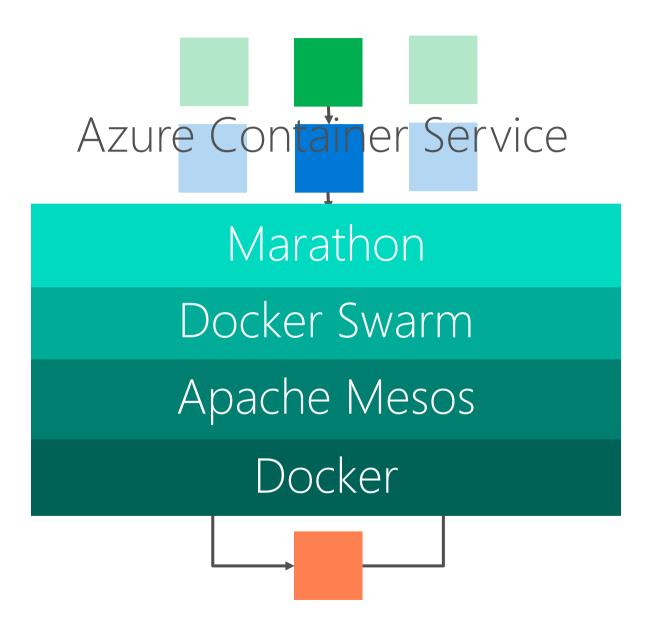


## Scaling

#### @dotjson









# Service Fabric



# Service Fabric

Next generation scale out microservices platform







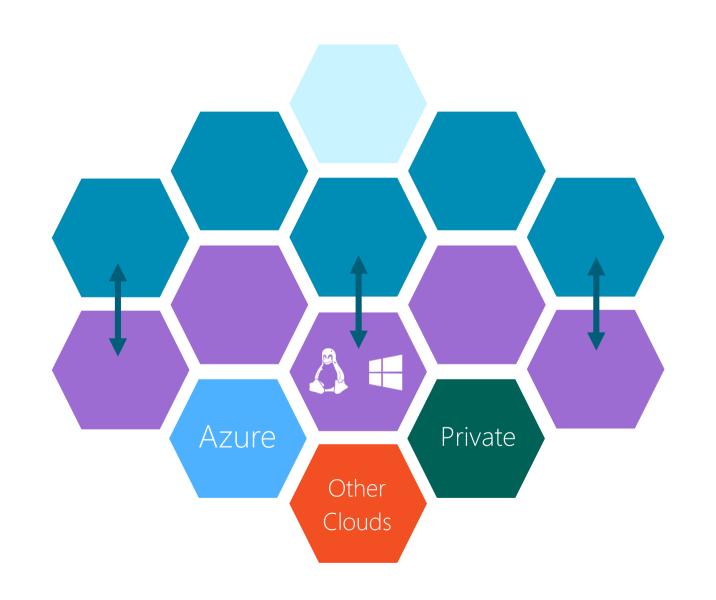






### Azure Service Fabric Explorer

#### @dotjson



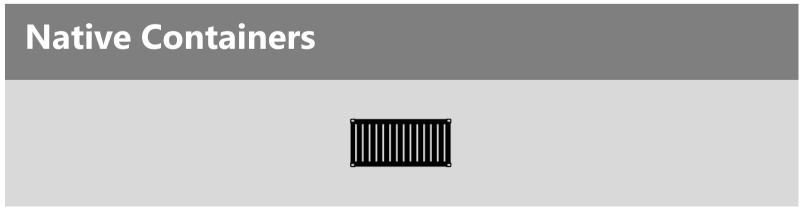
### Programming Model





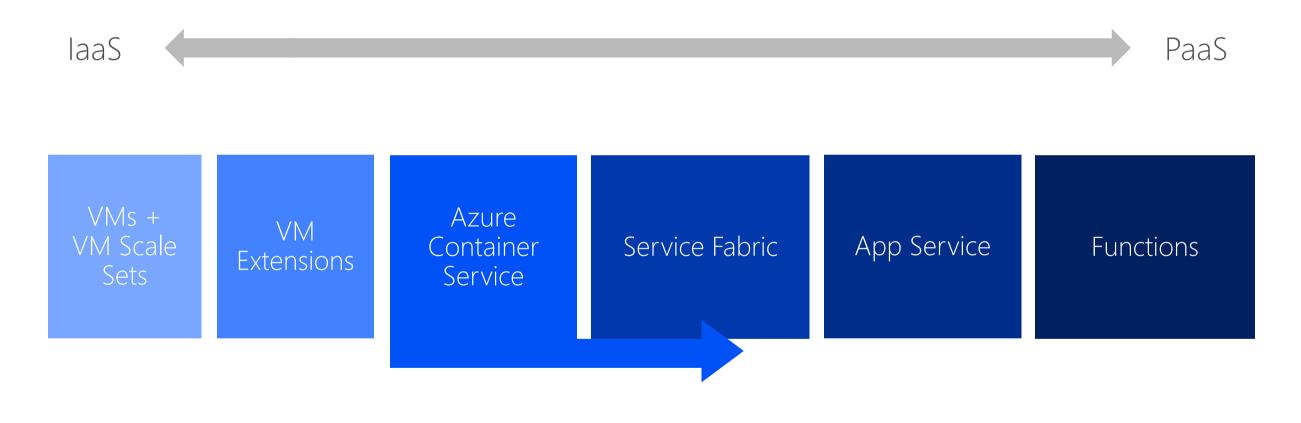






### Azure Compute Continuum





Control

Speed

### Recap





Containerisation

Orchestration

Azure Services

#### Call to action





#### Introduction to Microservices

https://www.nginx.com/blog/introduction-to-microservices/



#### Introduction to Service Fabric

https://azure.microsoft.com/en-gb/documentation/learning-paths/service-fabric/



Building Microservices: Designing Fine Grained Systems

Sam Newman



Joni Collinge

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