

An Introduction to Azure Service Fabric

created by Mike Wood —

mwood@sentryone.com

@mikewo

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SETTING

EXPECTATIONS





WHAT IS

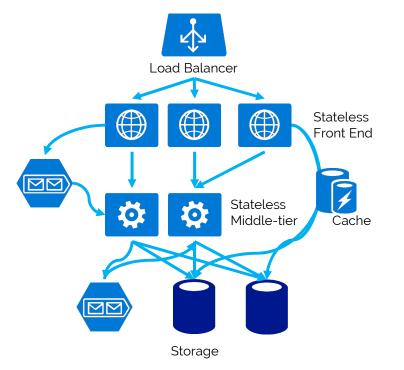
SERVICE FABRIC?

If a distributed systems platform used to build scalable, reliable, and easily-managed applications for the cloud.



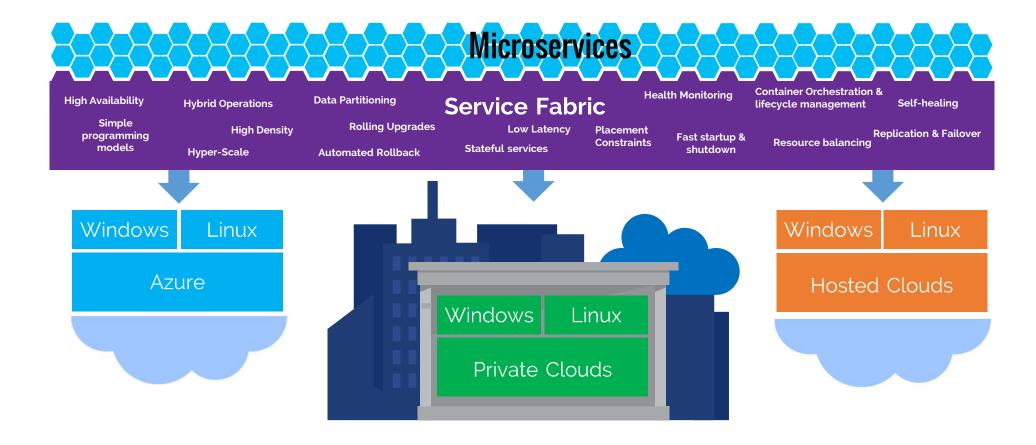
What PROBLEM is this solving?

- Complex
- Handle HA
- Handle Partitioning



- Slow Deployments
- Resource Distribution
- Multiple Deploy Models

What is SERVICE FABRIC?



What is SERVICE FABRIC?

System Services





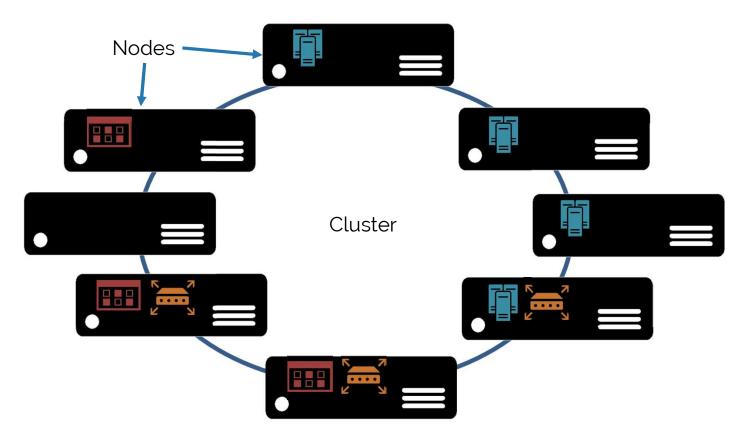




Health Manager

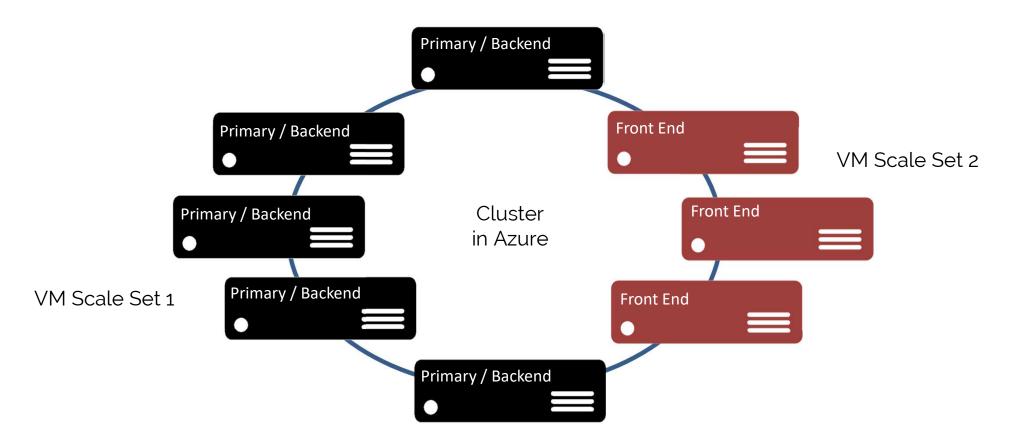
Reverse Proxy

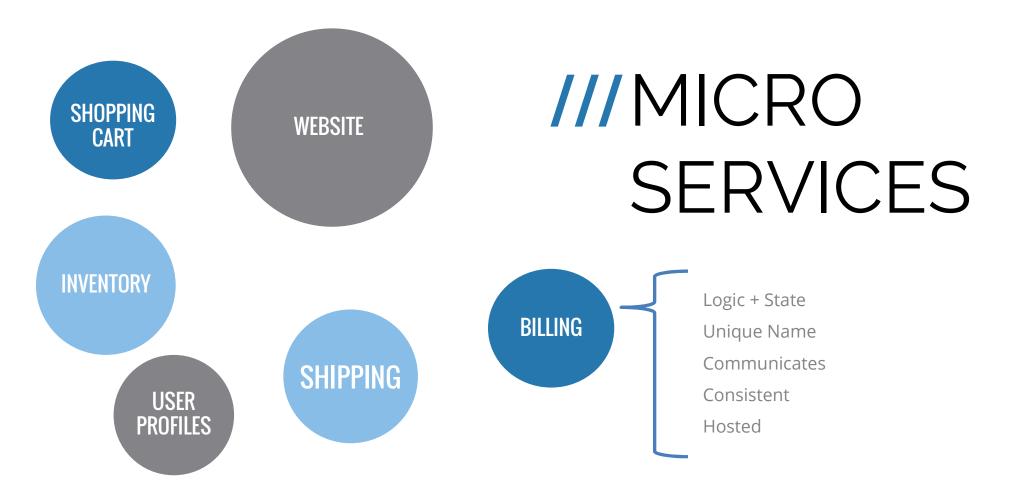
DNS Services





What is SERVICE FABRIC?





TYPES OF MICROSERVICES

✓ No state (external)

✓ N instances



- ✓ Authoritative State
- ✓ Partitioning with N consistent copies

Microservices



Programming Model Options

Reliable Actors API

Reliable Services API

SMALL INDEPENDENT UNITS

SINGLE THREADED

MANAGED CONCURRENCY

MANAGED COMMUNICATION

LOGIC ACROSS COMPONENTS

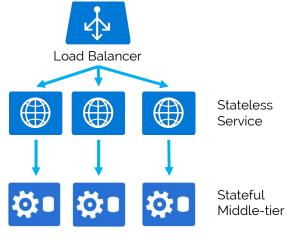
RELIABLE COLLECTIONS

CONTROL GRANULARITY OF STATE

CONTROL COMMUNICATION

Solving the PROBLEM

- Reduces Complexity
- Managed HA
- Managed Partitioning





Fast Deployments

High Density



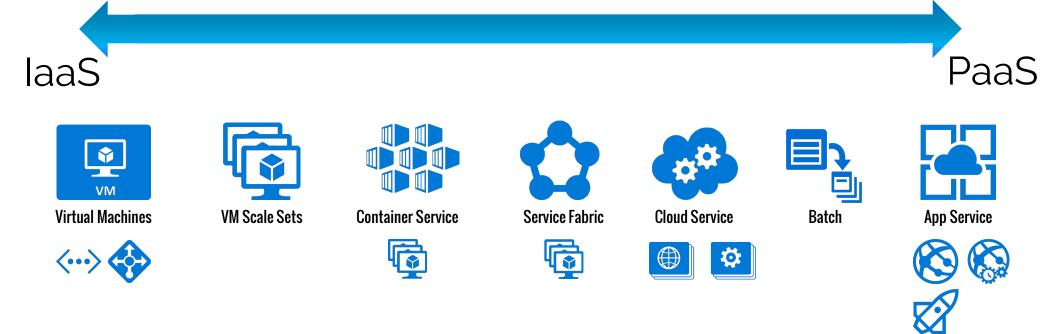






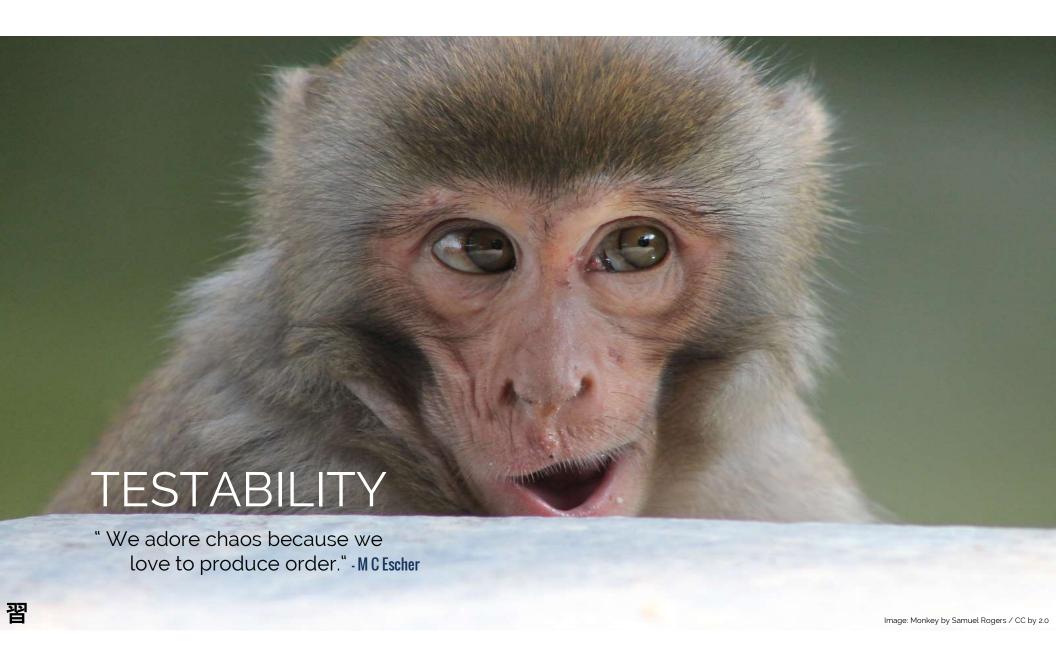
You are not Constrained

Compute Continuum



http://bit.ly/chooseazureservice







WHAT DID WE LEARN TODAY?

- Service Fabric can solve problems
- Exceedingly flexible and powerful
- Not a golden hammer
- Complexity may be ... moved



/// Want to use it? No waiting required

Download the SDK

Azure Hosted Clusters & Windows Deployments are Generally Available

Party Clusters!

Service Fabric "Deploy Anywhere" for Linux in Preview





THANK YOU

mvwood.com

Get Started at http://bit.ly/azureservicefabric