

Building a CI/CD Pipeline for Azure Container Service

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Objectives and takeaways

At the end of this presentation, you should be better able to...

- list the components and phases of a CI/CD pipeline
- describe two ways of packaging an app for deployment
- Open Source + ACS Kubernetes = Winning Combination
- Pipelines are a key user interface for dev teams

Agenda

- A few slides
- Demos demos demos

Session resources

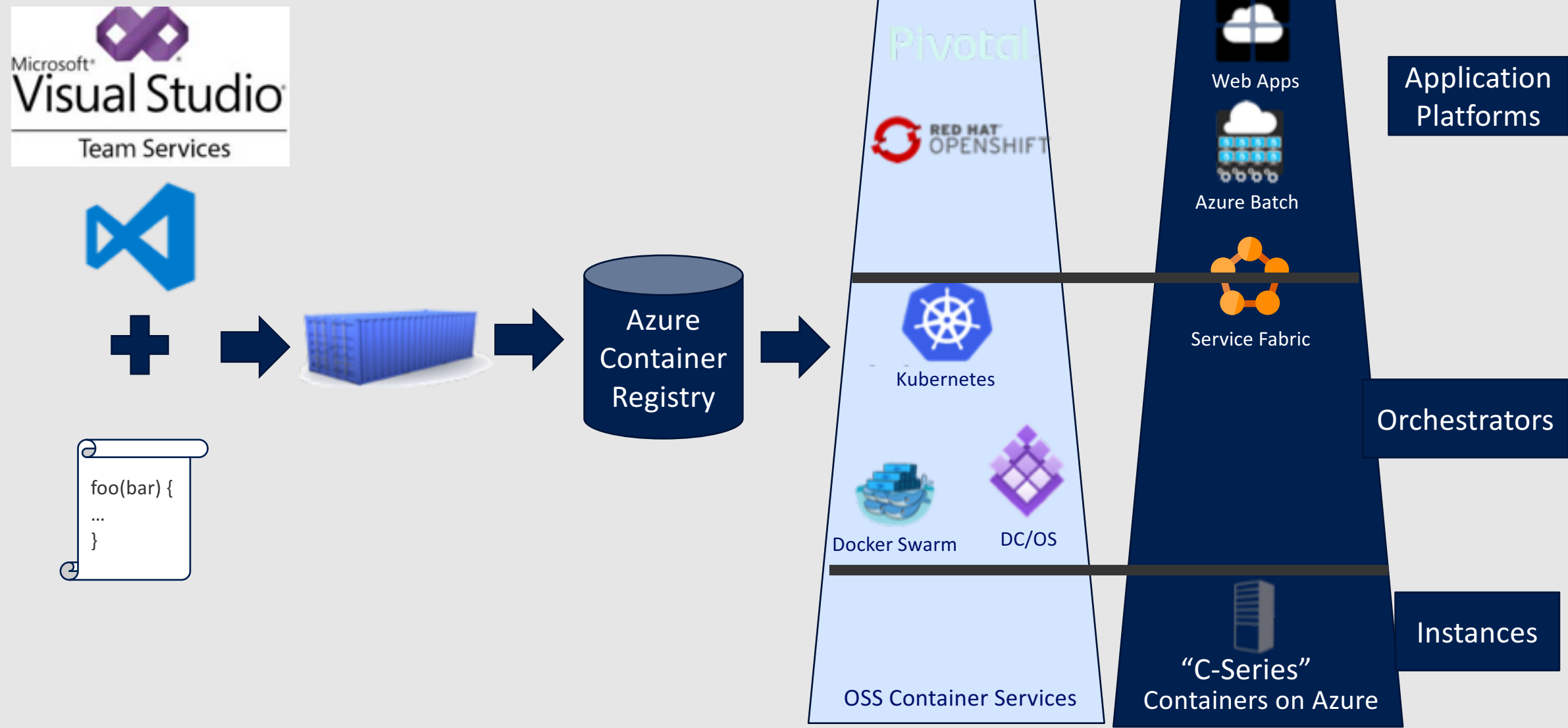
- <https://github.com/Azure/acs-engine>
- <https://github.com/Azure/draft>
- <https://github.com/kubernetes/helm>
- <https://github.com/ams0/croc-hunter>
- <https://github.com/lachie83/jenkins-pipeline>
- <https://github.com/ams0/wazugmeetup>

Containers, containers, containers

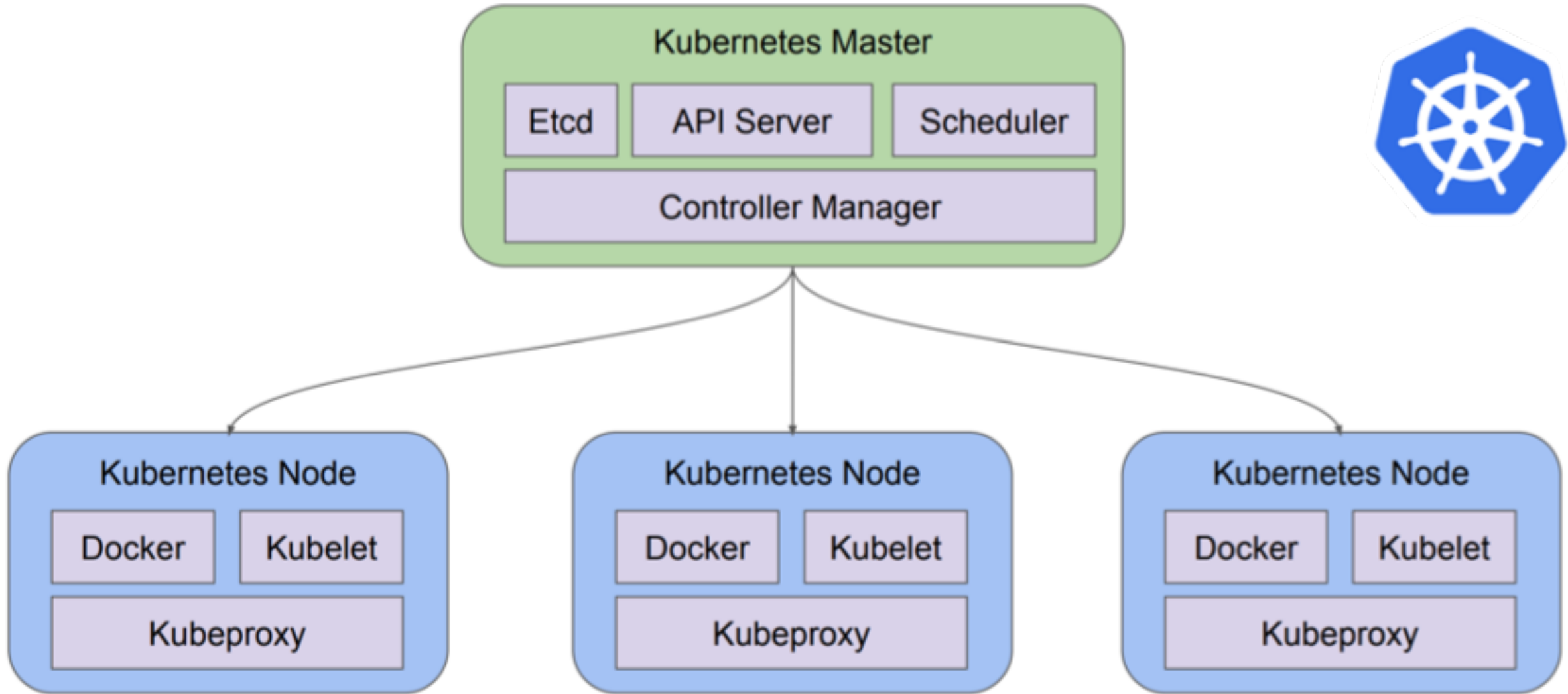
Containers are changing all layers of the stack...

- The way we **develop**, **package**, and **deploy** applications
- The rise of **cloud-native** application architectures
- Speed is critical to move from **idea** to **production**

Containers Everywhere



Kubernetes



Azure Container Strategy - “Containers everywhere”



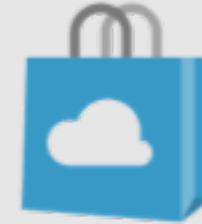
Azure Container
Service



Docker Machine
Driver



Service Fabric



Azure
Marketplace



Azure Container
Registry



Visual Studio
Team Services



Azure VM
Extensions



Azure DevTest
Labs

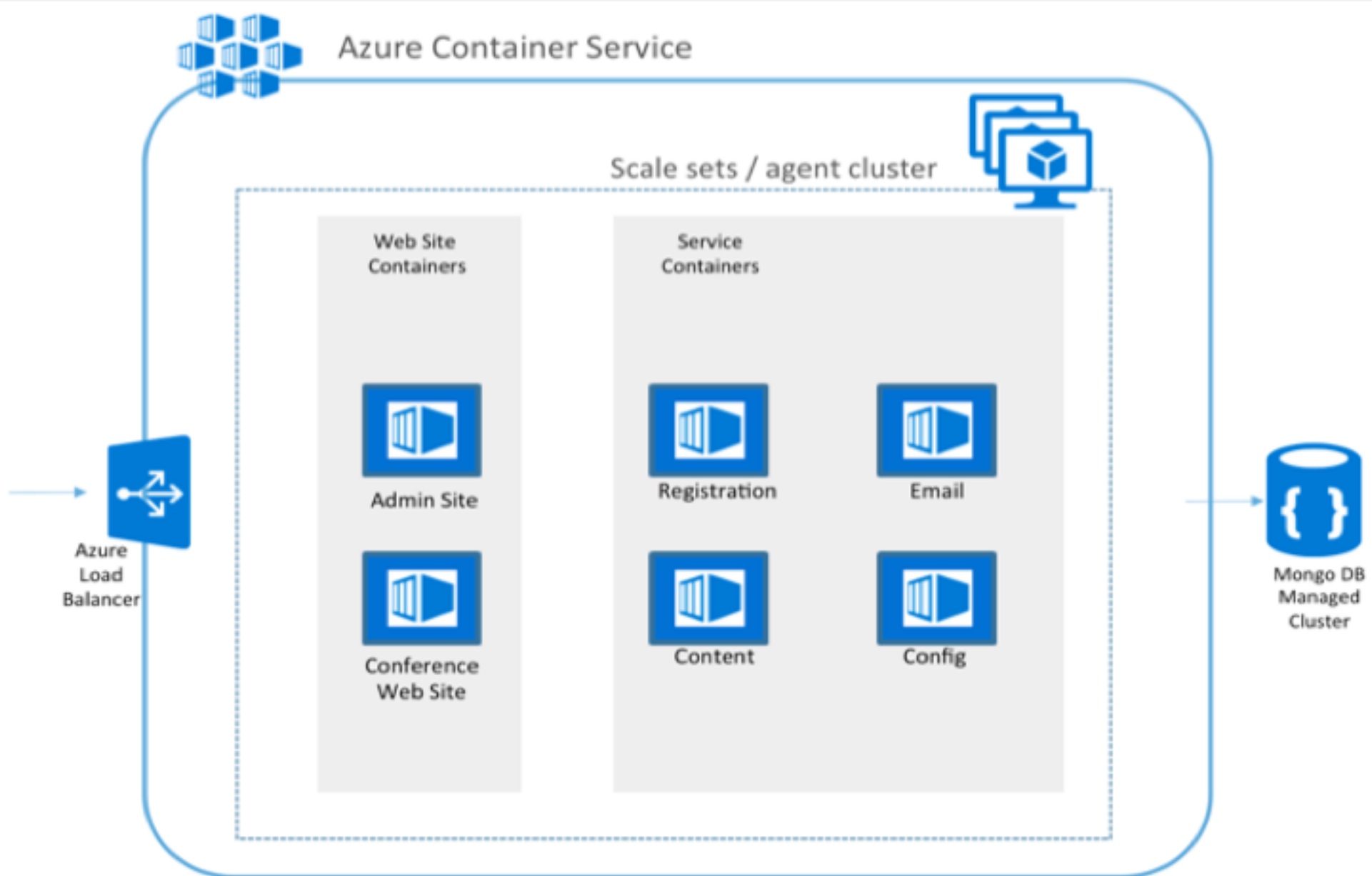


Azure Container
Instance



Web app for
Containers

ACS



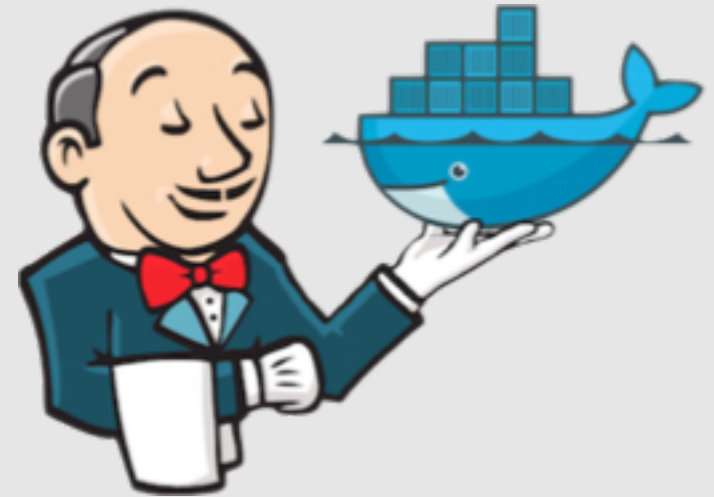
Demo acs-engine

<https://github.com/Azure/acs-engine>

Demo Helm



Demo Jenkins



Demo Draft



Demo Recap

- Code -> Commit -> Artifact -> Deploy
- Test and build artifact for every commit
- Artifacts pushed to Azure Container Registry
- Pull request allows for change control
 - Application, Pipeline and Deployment all ***reviewable***

A horizontal banner with a black background. On the left, there is a glowing blue circular structure made of interconnected lines and dots, resembling a network or a stylized 'O'. To its right, a series of glowing blue circuit-like lines extend horizontally across the banner. On the right side of the banner, the word 'OpenHack' is written in a bold, black, sans-serif font, enclosed within a light blue rectangular box that has a slightly distressed or textured appearance.

OpenHack

amsterdam, october 2017

<https://aka.ms/openhackamsinvite>

