Deploying Container Groups



Mark Heath MICROSOFT MVP

@mark_heath https://markheath.net



Overview



Container groups

- Can host one or more containers

Why use container groups?

Deploying container groups

- ARM templates

Managing container groups

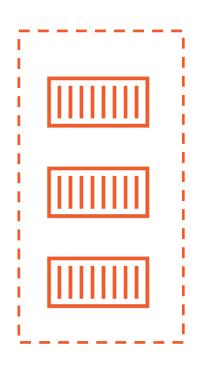
- Accessing container logs
- Executing diagnostic commands

Integration possibilities

- Azure Functions
- Azure Logic Apps
- Azure Kubernetes Service (AKS)



Container Groups



Scheduled on the same host machine

Share common resources

- Volumes
- Networking

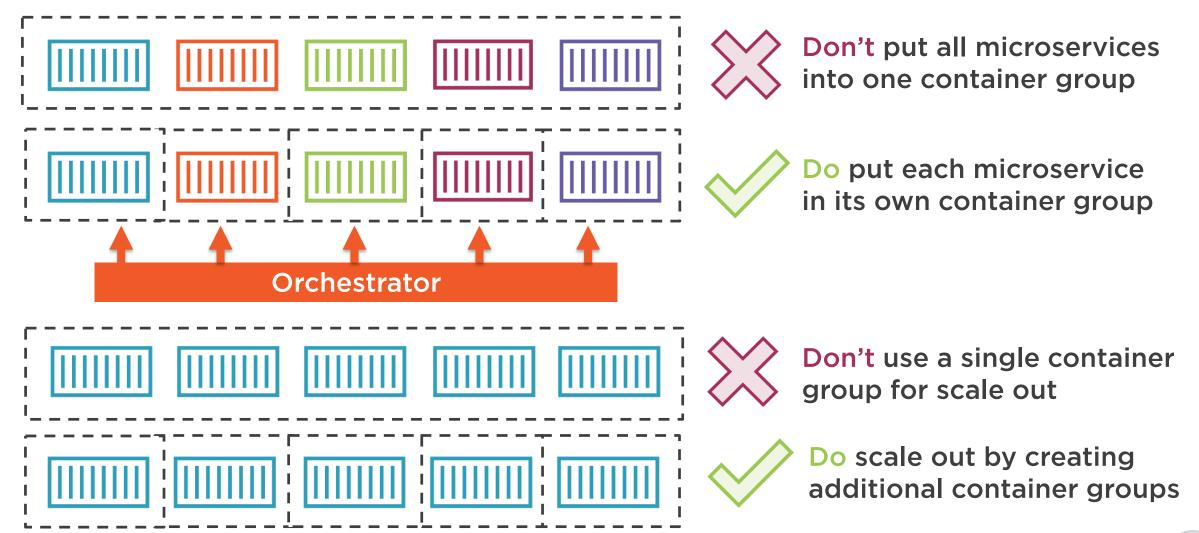
Share a common lifecycle

Can communicate on localhost

Similar to Kubernetes "pods"

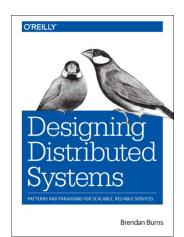


When Not to Use Container Groups





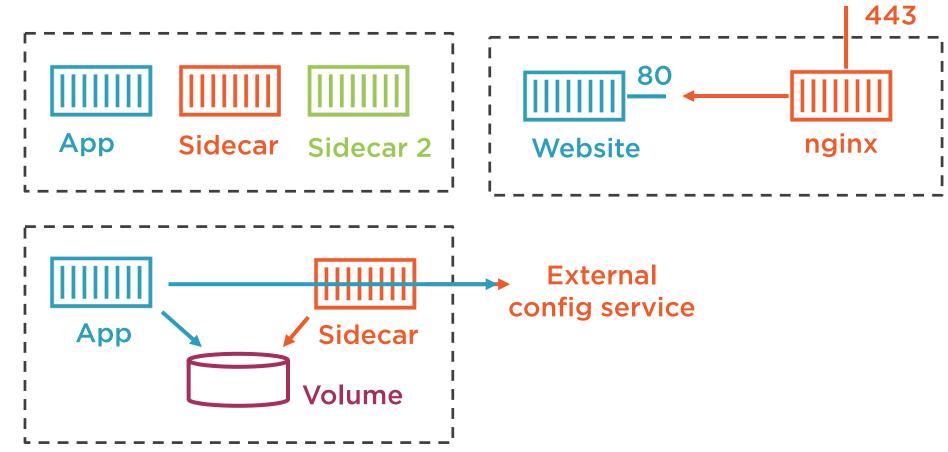
Implementing the "Sidecar" Pattern



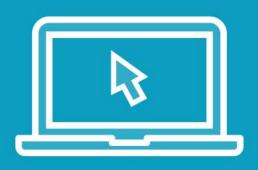
Free e-book:

Designing Distributed Systems by Brendan Burns

http://bit.ly/aci-sidecar



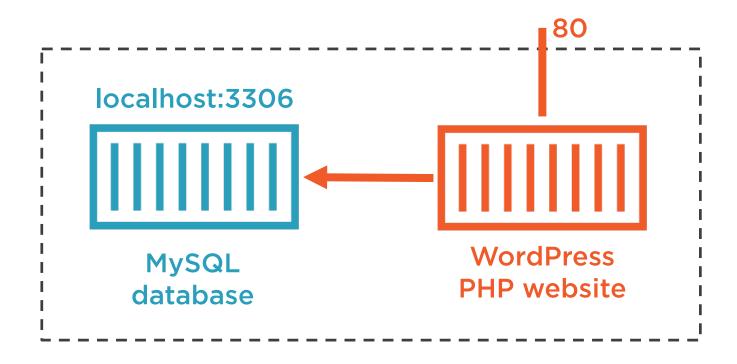
Demo



Defining an ARM Template
WordPress blog



WordPress in a Container Group





Demo



Deploy an ARM template

- az group deployment create



Demo



View logs for a specific container

- az container logs

Execute commands on a container

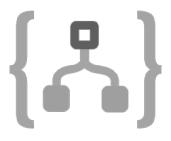
- az container exec



Integrating with Other Azure Services







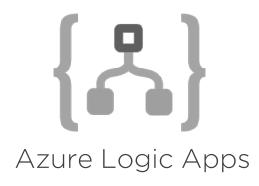
Azure Logic Apps



Azure Kubernetes Service (AKS)

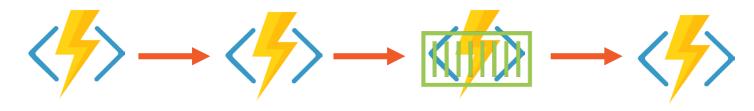








Workflows (Durable Functions)



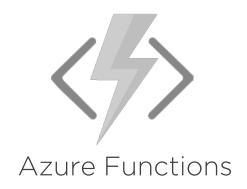
Deploy an ACI container group

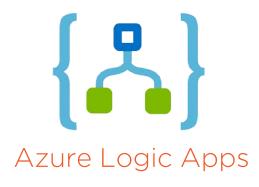
Wait for it to finish (polling, webhook, Event Grid)

Scalable multiplayer backend (Brian Peek & Dimitris Gkanatsios)

http://bit.ly/aci-multiplayer









Azure Container Instances Connector

Create container group

Delete container group

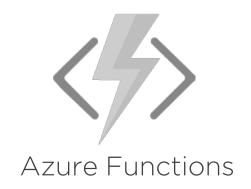
Get container group properties

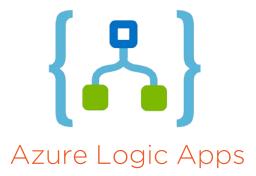
Get container group logs

List container groups

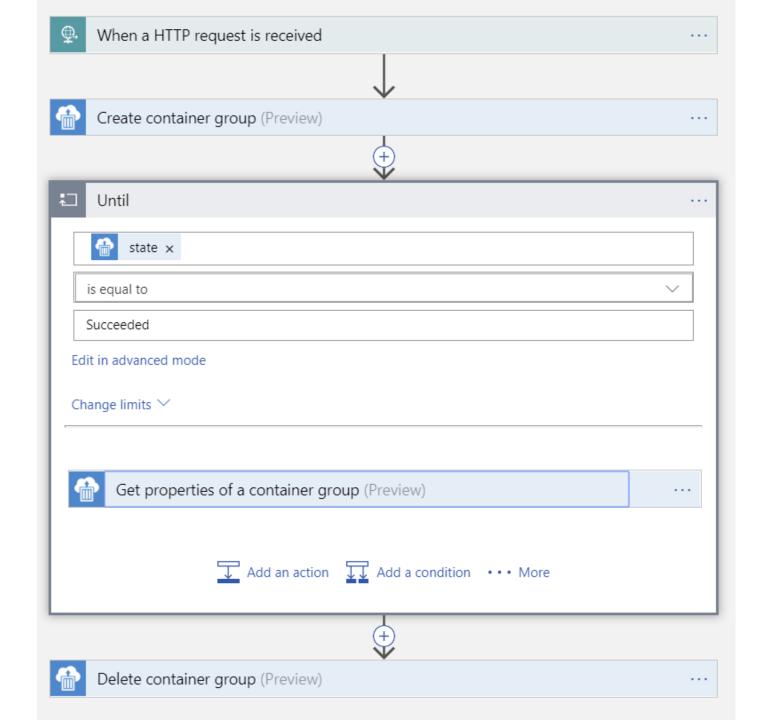
Sentiment analysis using Text Analytics and ACI https://github.com/Azure-Samples/aci-logicapps-integration





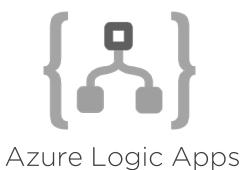




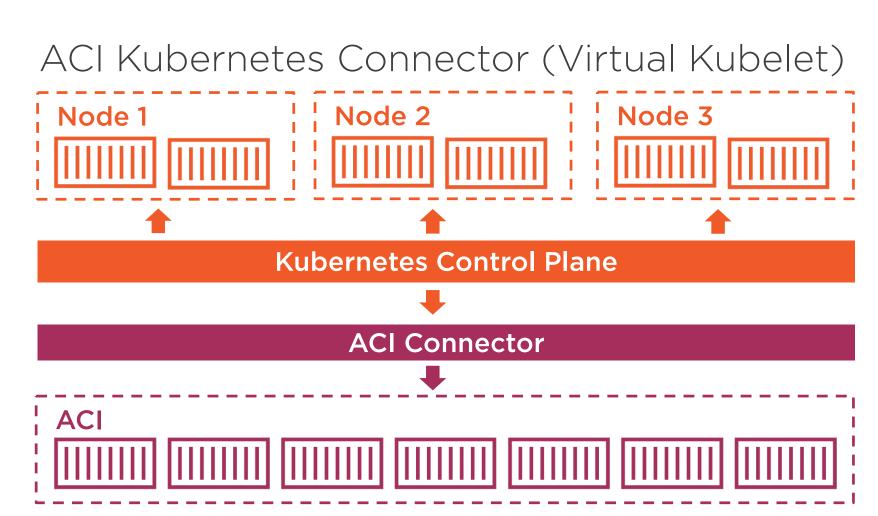












az aks install-connector

Facial recognition with ACI for bursting http://bit.ly/aci-burst-demo



Summary



Container groups

- Share common resources
- Share common lifecycle

ARM template deployment

- az group deployment create

Run commands in containers

- az container exec

Integration

- Azure Functions
- Azure Logic Apps
- Azure Kubernetes Service (AKS)



Thanks for watching!

https://aka.ms/aci

