



Containers on Azure Web Apps

Rajesh Kolla

Full-stack development ,Azure Architect

Email: razesh.kolla@gmail.com

Twitter: [@RajeshKolla18](https://twitter.com/RajeshKolla18)

LinkedIn: <https://be.linkedin.com/in/razeshkolla>

Agenda

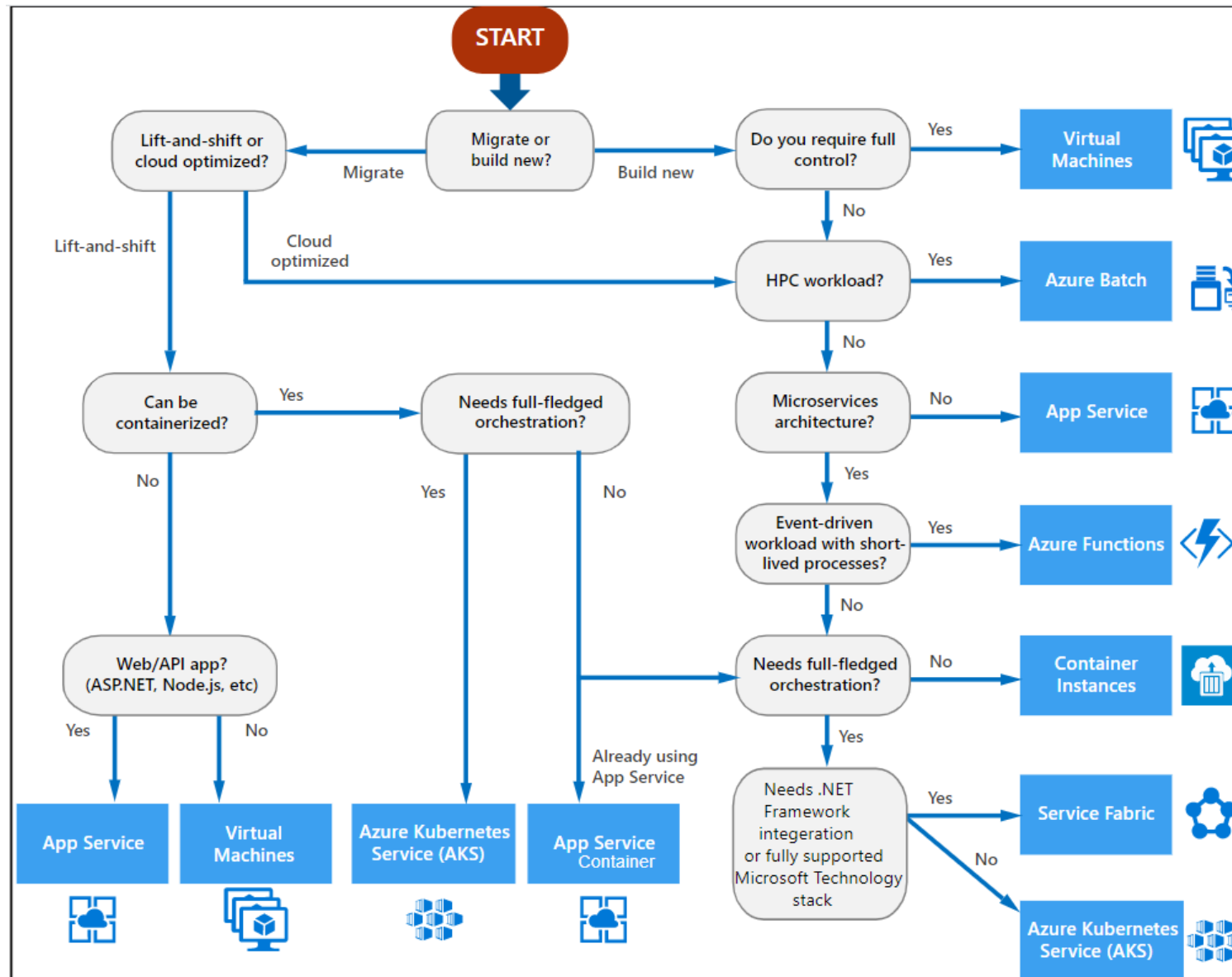


App Services



- Azure App Service –Overview
- Decision Tree for Compute
- Why do need Container for Web App
- Demo- Web App using Docker container
- Demo – Scaling out Options an App service Plan
- Demo – Azure Slots
- Demo – Configuring CI for Web App using Containers

Decision Tree for Compute





App Services

Azure App Service

HTTP-based service for hosting web applications, REST APIs, and mobile back ends.

can develop in your favorite language, be it .NET, .NET Core, Java, Ruby, Node.js, PHP, or Python.

Applications run and scale with ease on both Windows and Linux-based environments

- Multiple Languages and frameworks
- Managed Production environments
- Containerization and Docker support
- Global Scale with high availability
- API and Mobile features
- Security
- Server less Code
- Integration with Visual studio and Visual studio code
- DevOps Optimization
- Staging Slots
- Manage Environment
- Can host multiple web apps using same App service plan
- Several Pricing tiers available
 - Basic, Standard & Premium
- Support Many platform
- Also support Containers



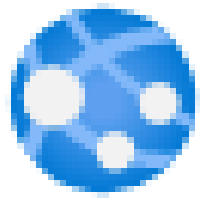
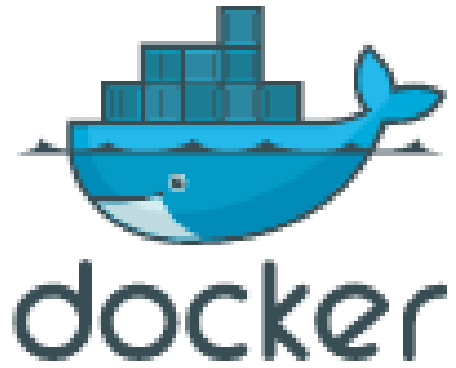
Why do need Containers for web App?



App Services

- Consistent deployment model
- Support more frameworks
- Control over frameworks version
- Multi-container support
 - Docker-compose or Kubernetes YAML
- Trigger deployment from container registry



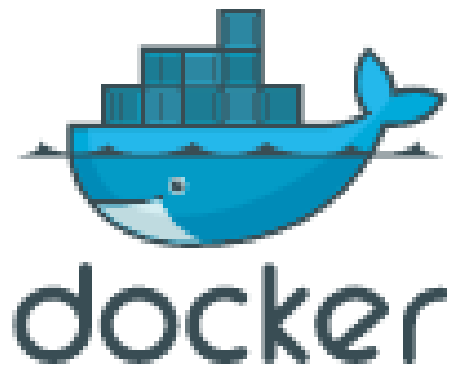


App Services

Demo-1

Running WordPress\nginx Docker
container On WebApp

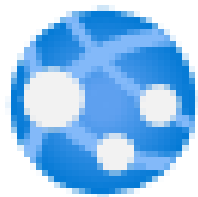
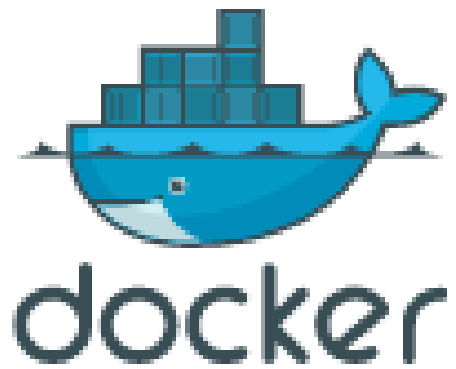




Demo-2

Scaling out an App service plan



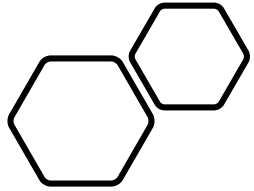


App Services

Demo-3

Azure slots on Web App





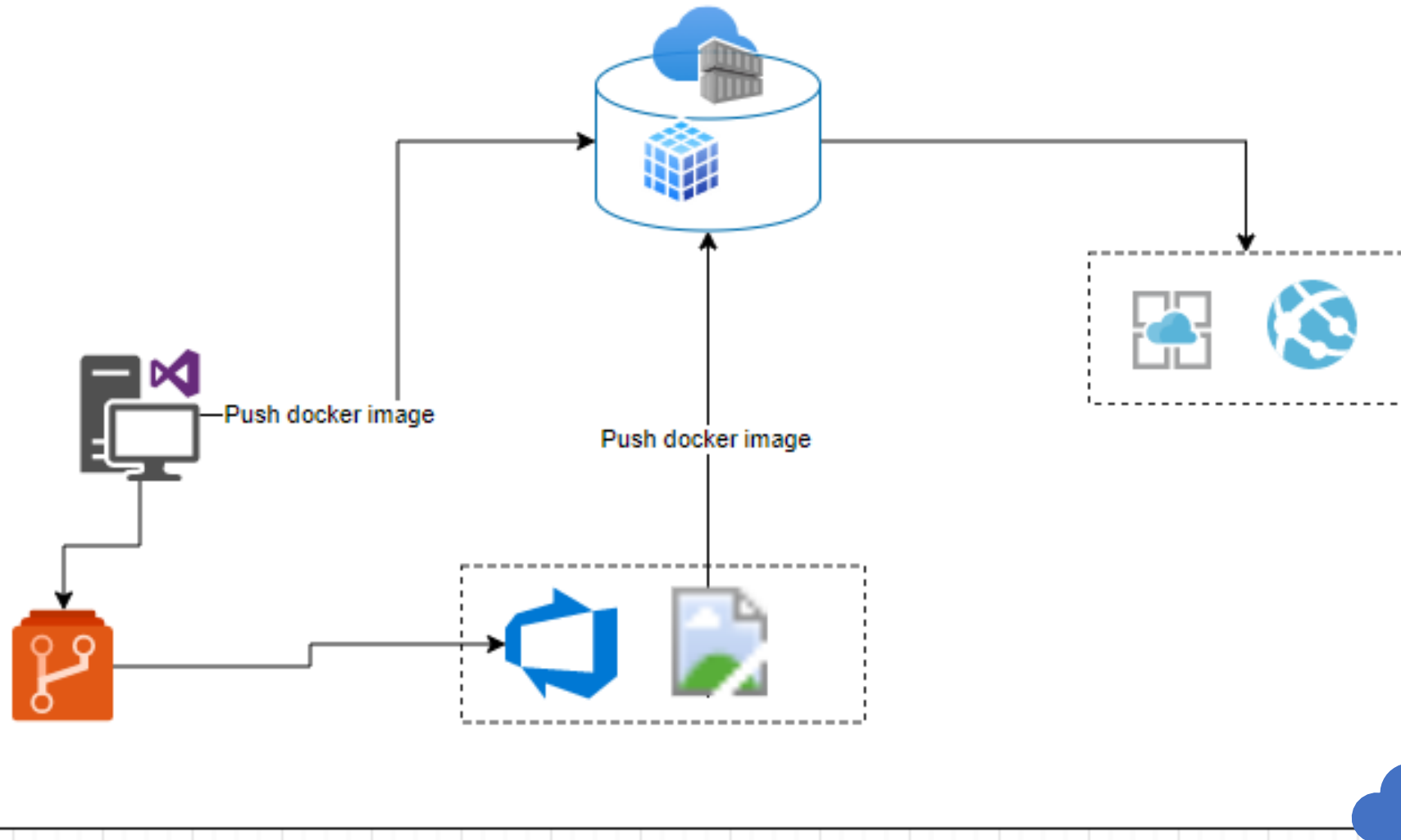
Demo-3

Continuous Delivery

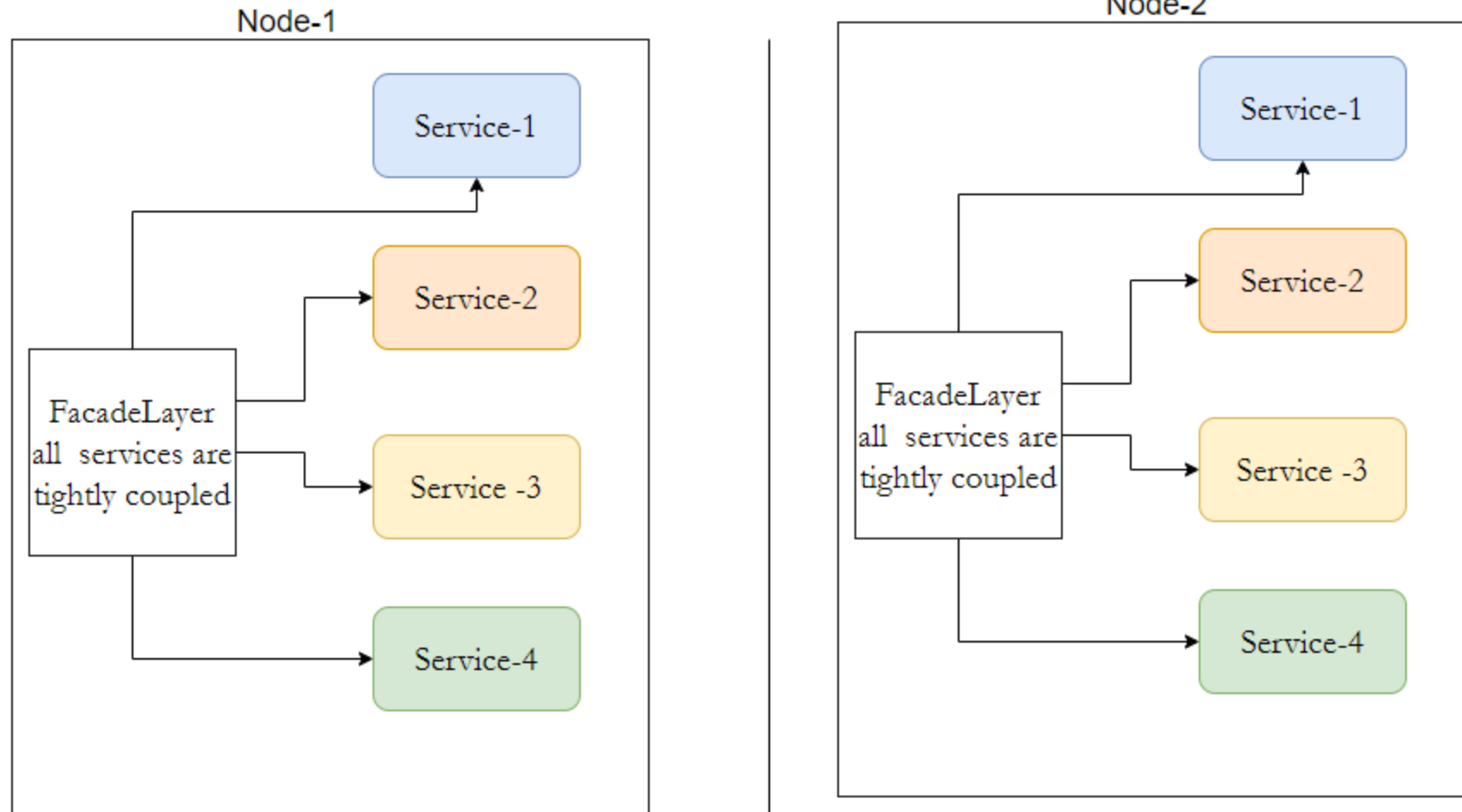
- Create a web app using ACR hosted image
- Create a staging slot
- Configure a push webhook for ACR



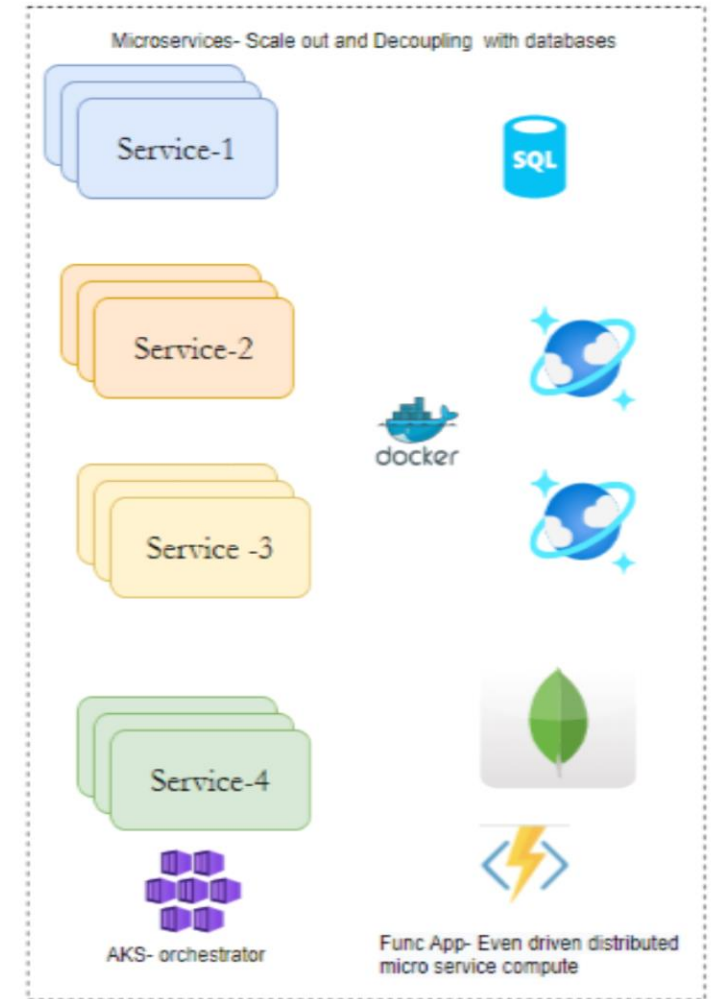
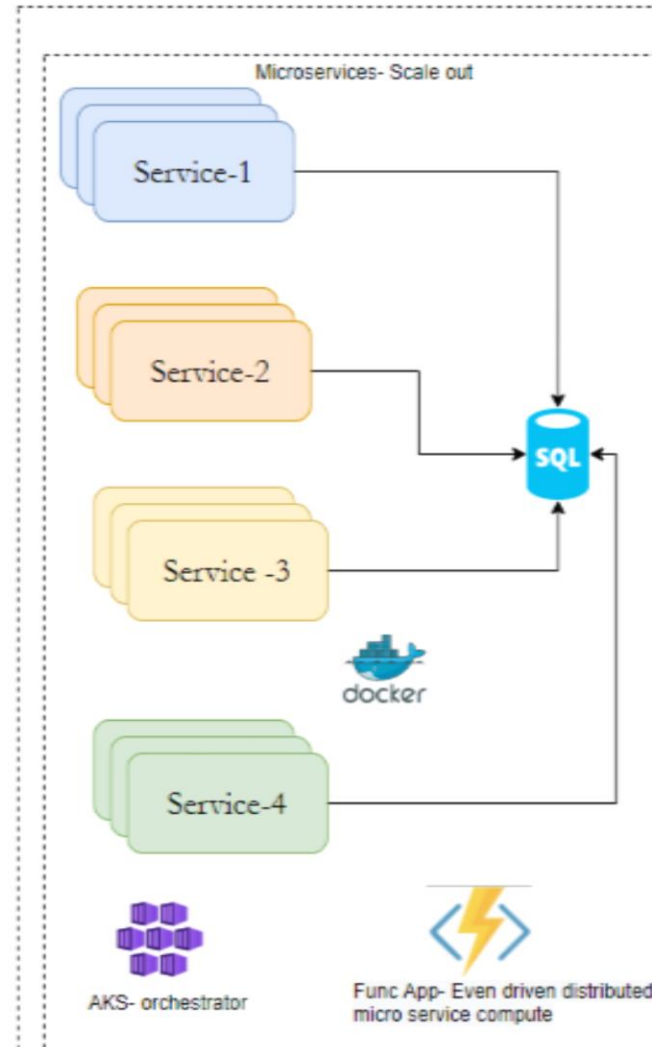
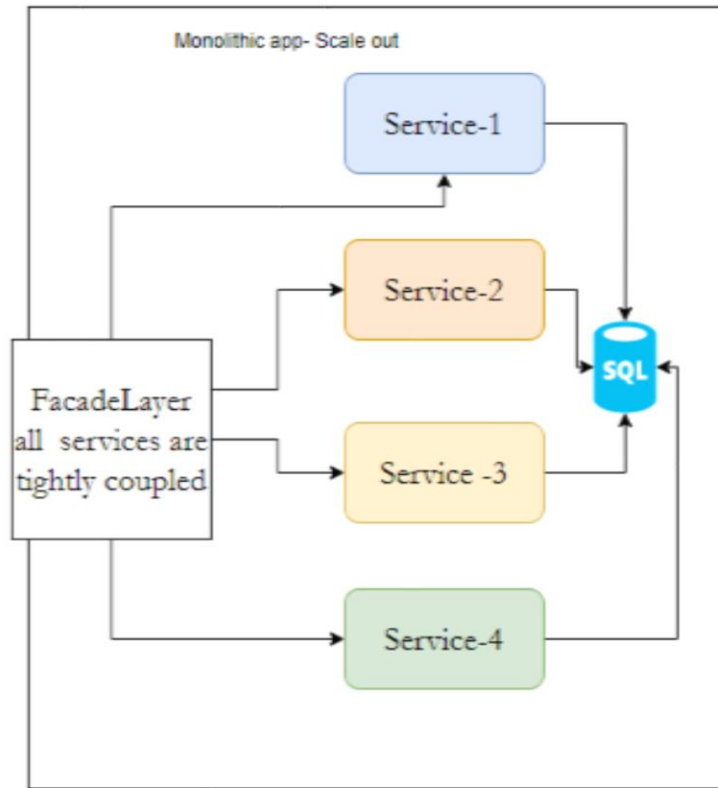
Deployment Workflow- Docker based web application to Azure App Service



Monolithic App: Problems with scaling out option



- Even there is change on only one functional module/service, Need to deploy entire application
- Even there is more resources used by only one functional module, need to scale out all functional module/services
- all functional module are tightly coupled internally and also tightly coupled with database



Q&A

