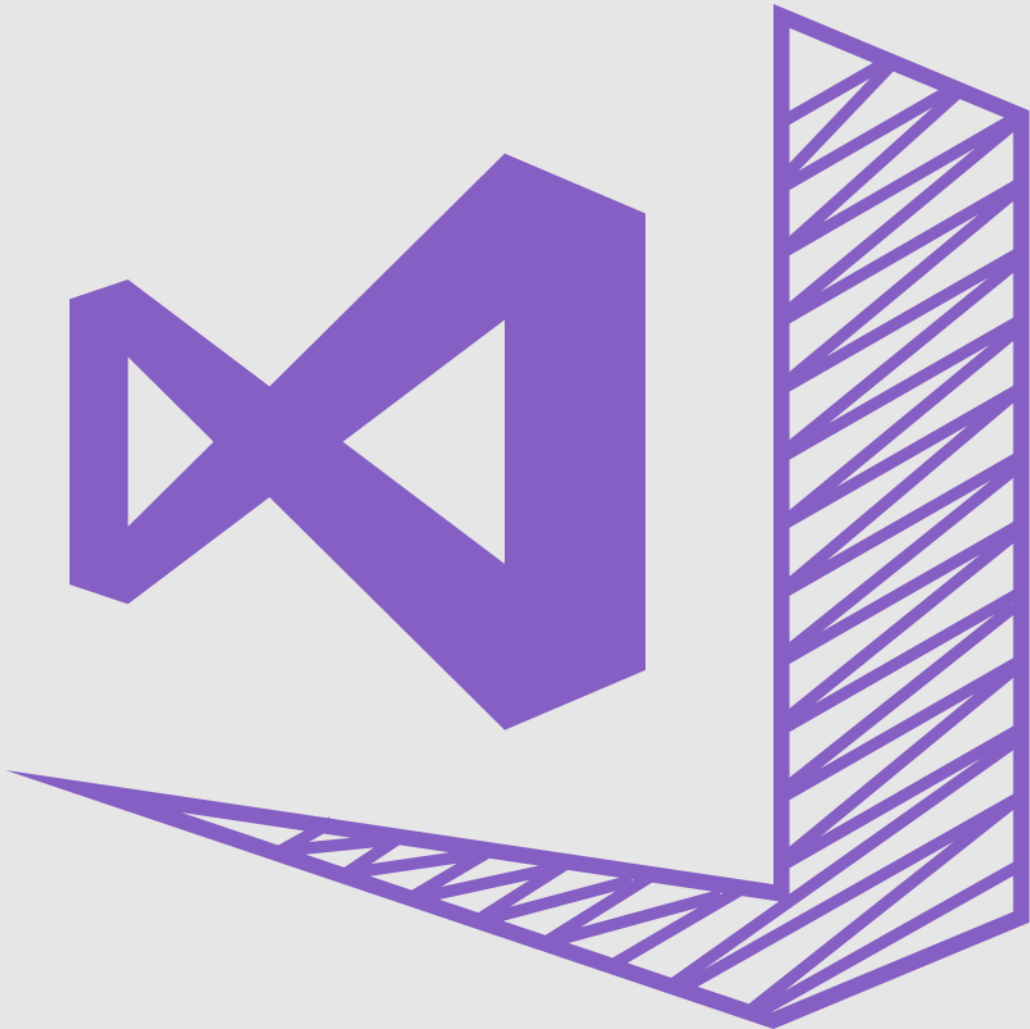
Sviluppare nel cloud con Visual Studio 2017

Jessica e Giancarlo
Technical Evangelist e Technical Solution Professional
@_jetiba @giancarlosudano
jessica.tibaldi@microsoft.com gisudano@microsoft.com
Microsoft Italia - DX

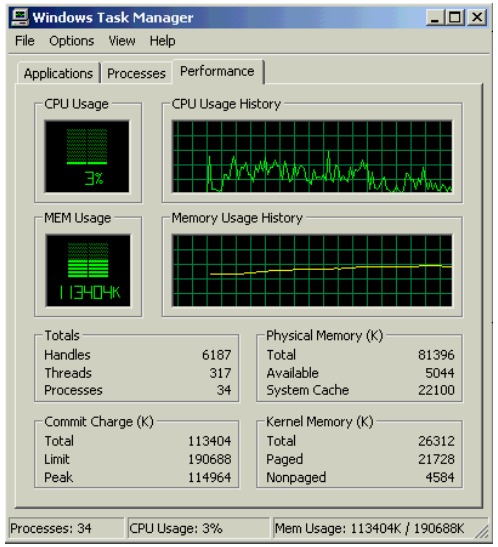


aspitalia.com

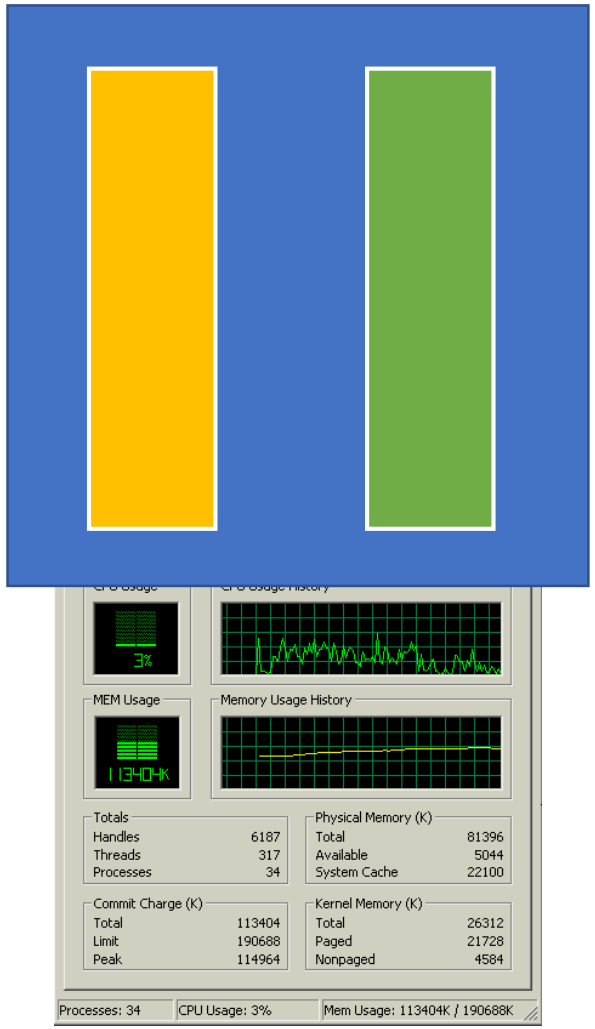
on premise

App X
(Monolith)

App X
(Monolith)

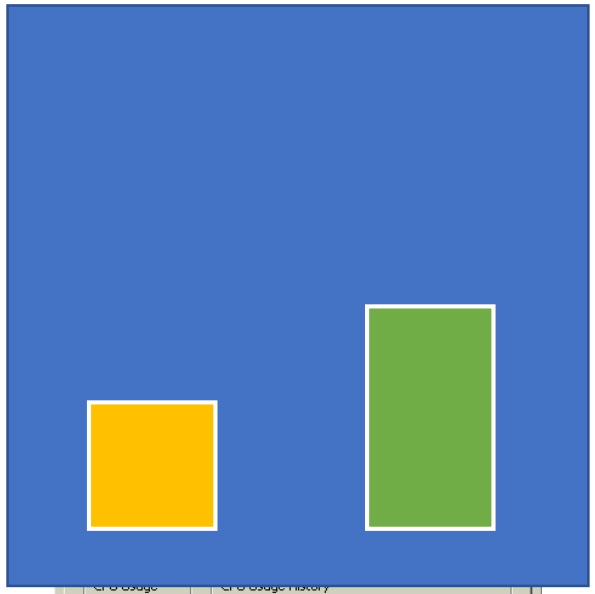


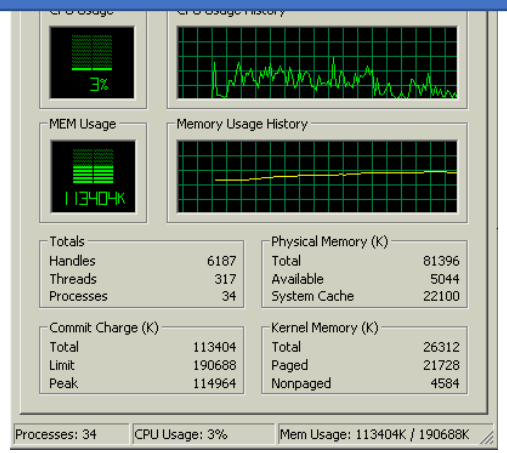
CPU RAM



App X
(Monolith)

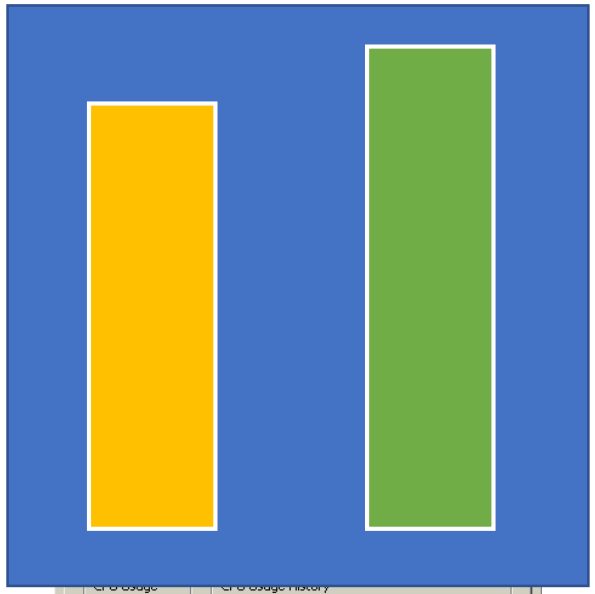
CPU RAM

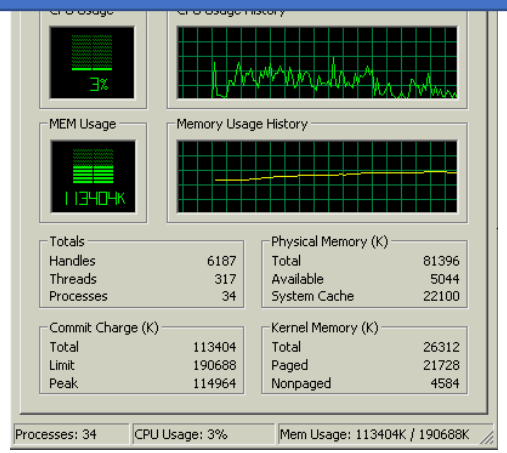




App X
(Monolith)

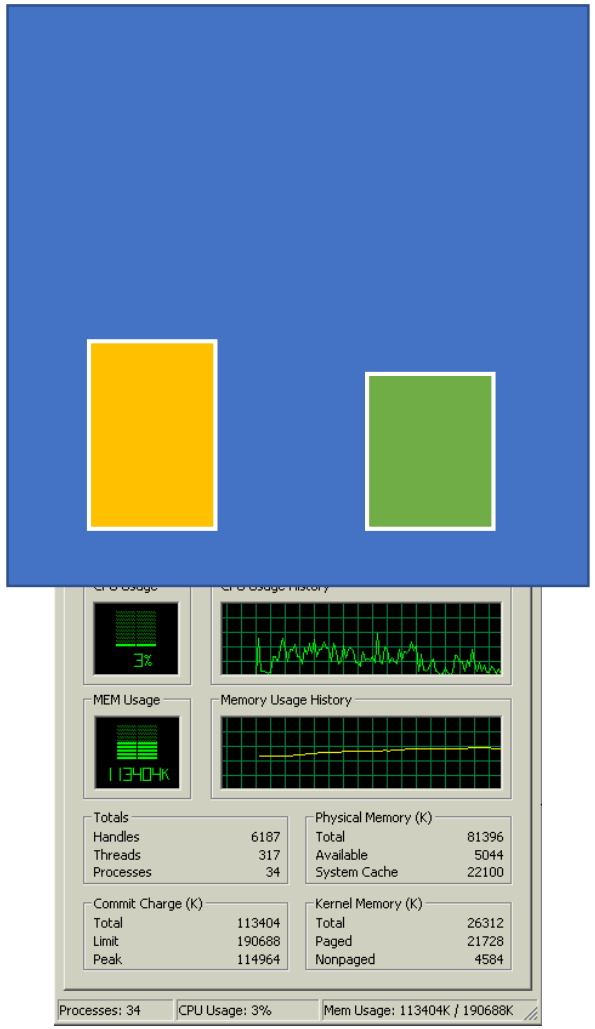
CPU RAM





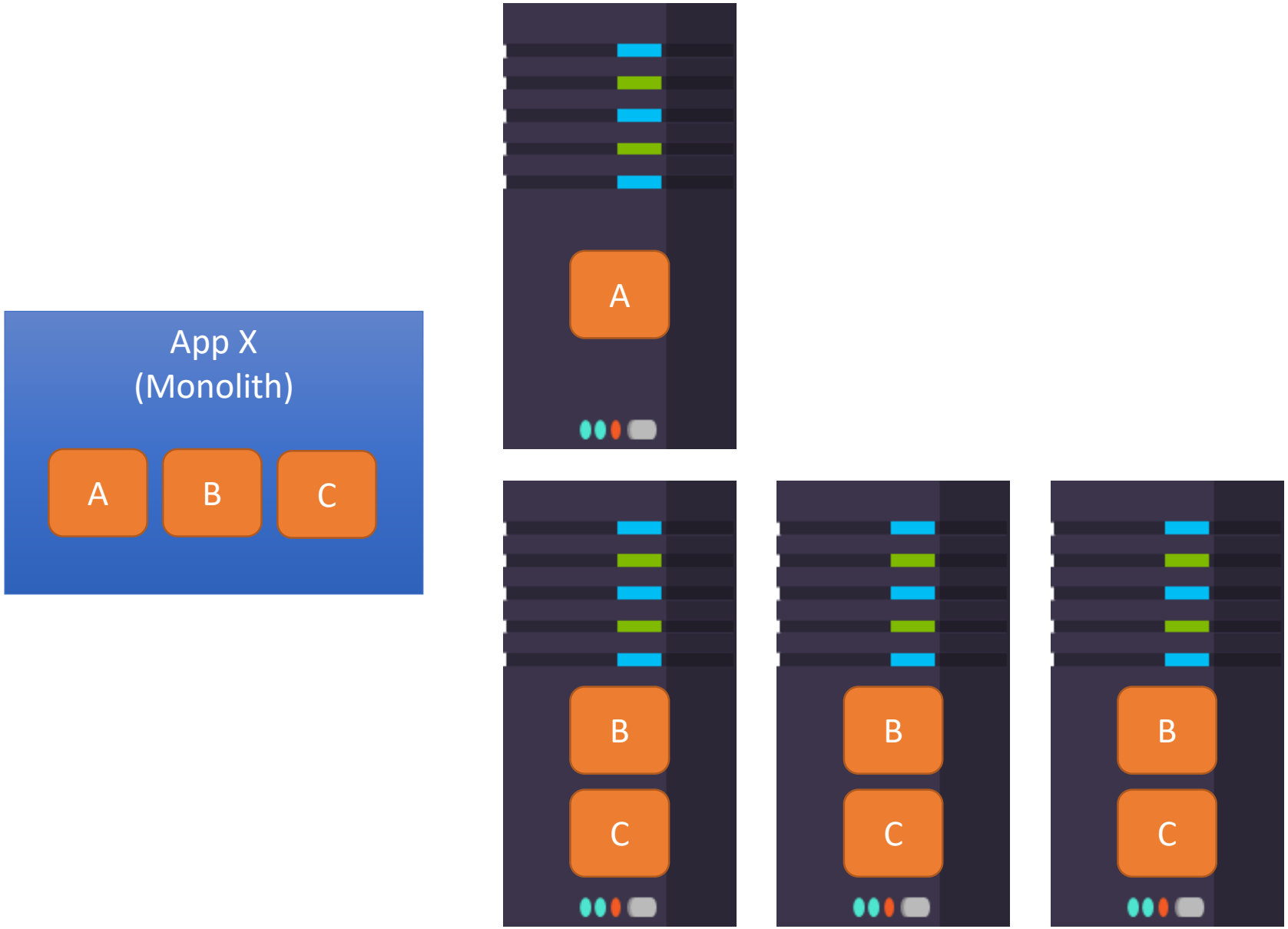
App X
(Monolith)

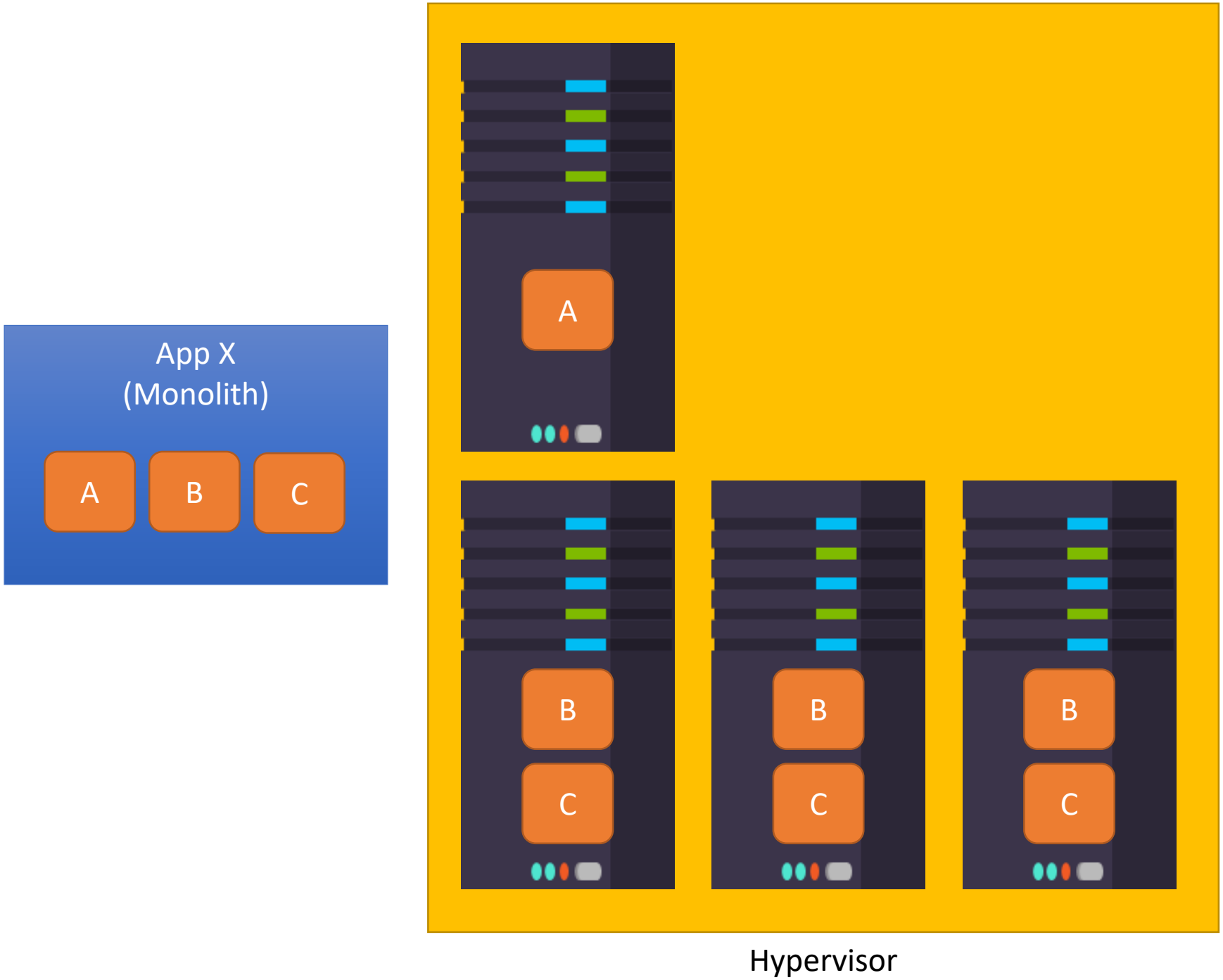
CPU RAM



App X
(Monolith)

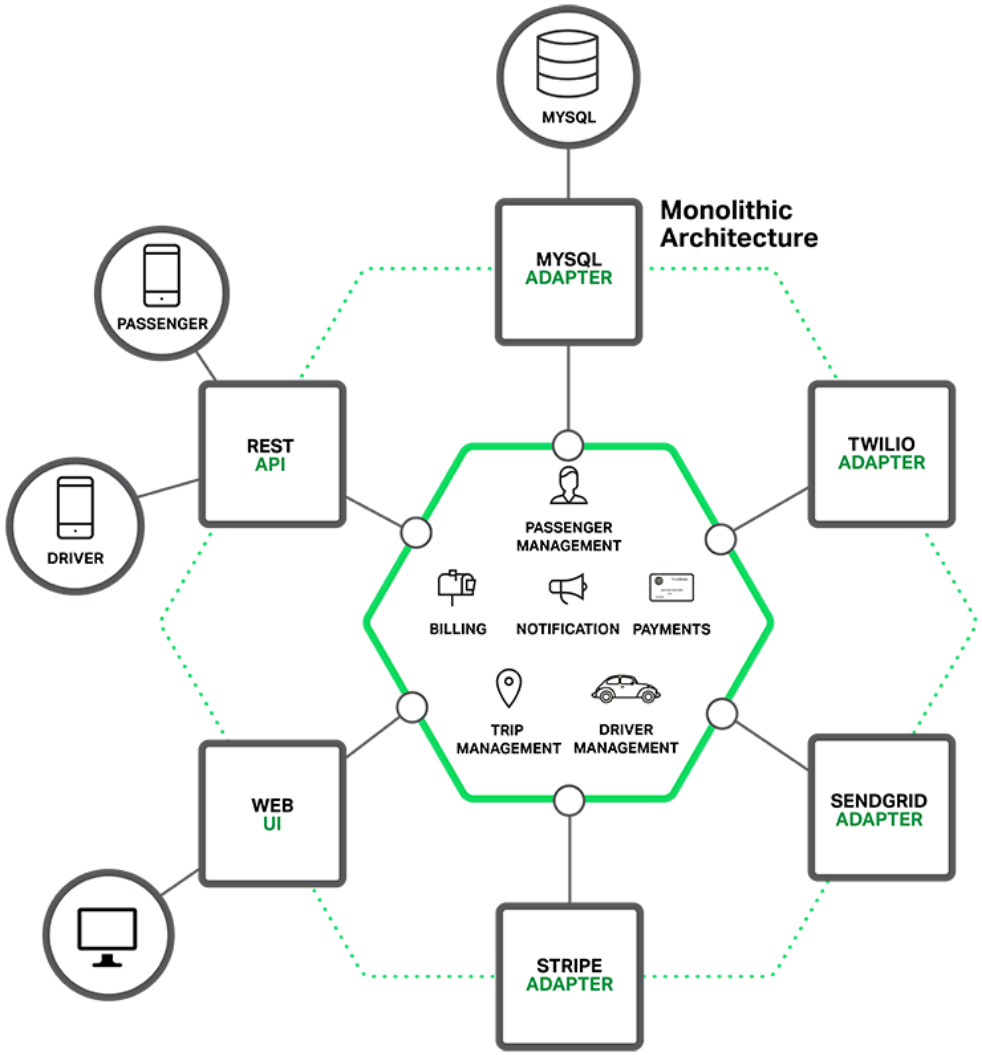
App X
(Monolith)
A
B
C

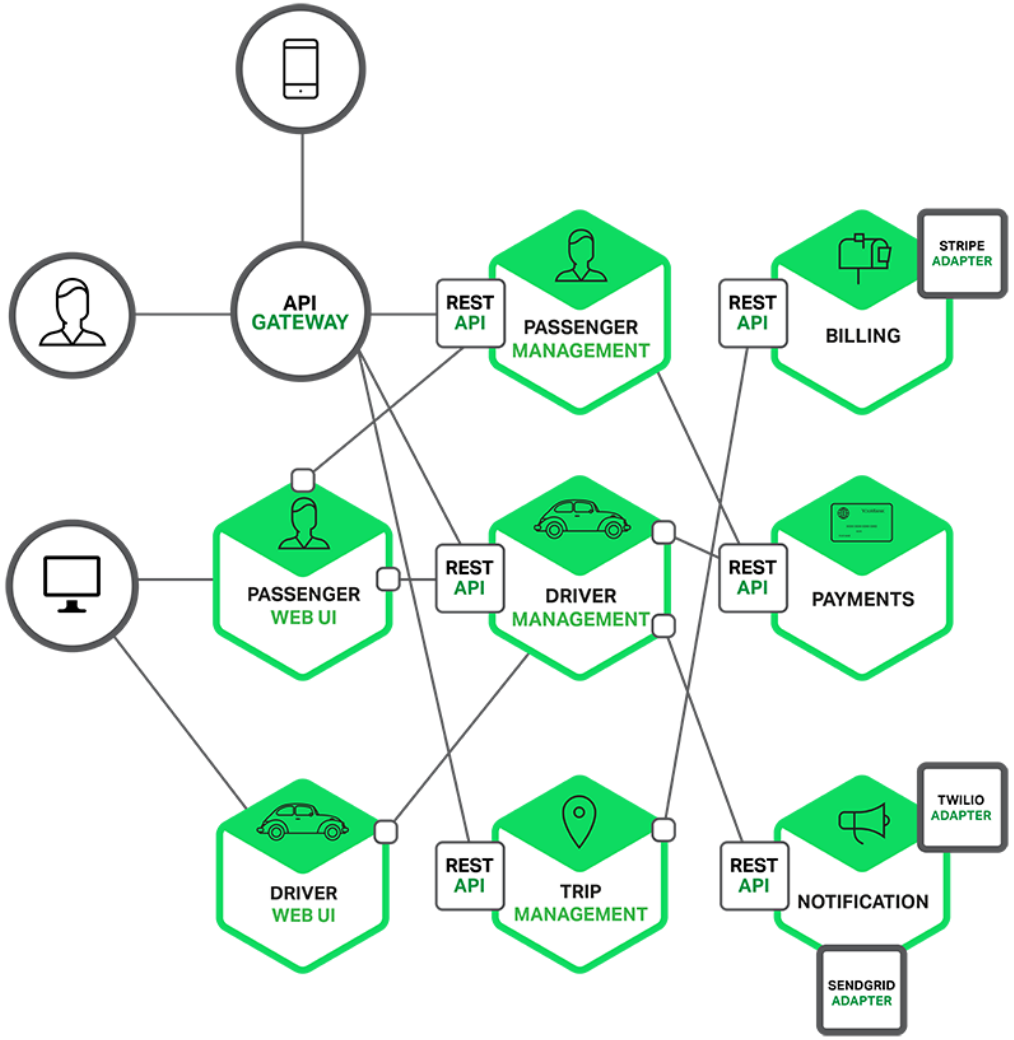

App X
(Monolith)
A
B
C
A
B
C
B
C
B
C


App X
(Monolith)
A
B
C
A
B
C
B
C
B
C
Hypervisor

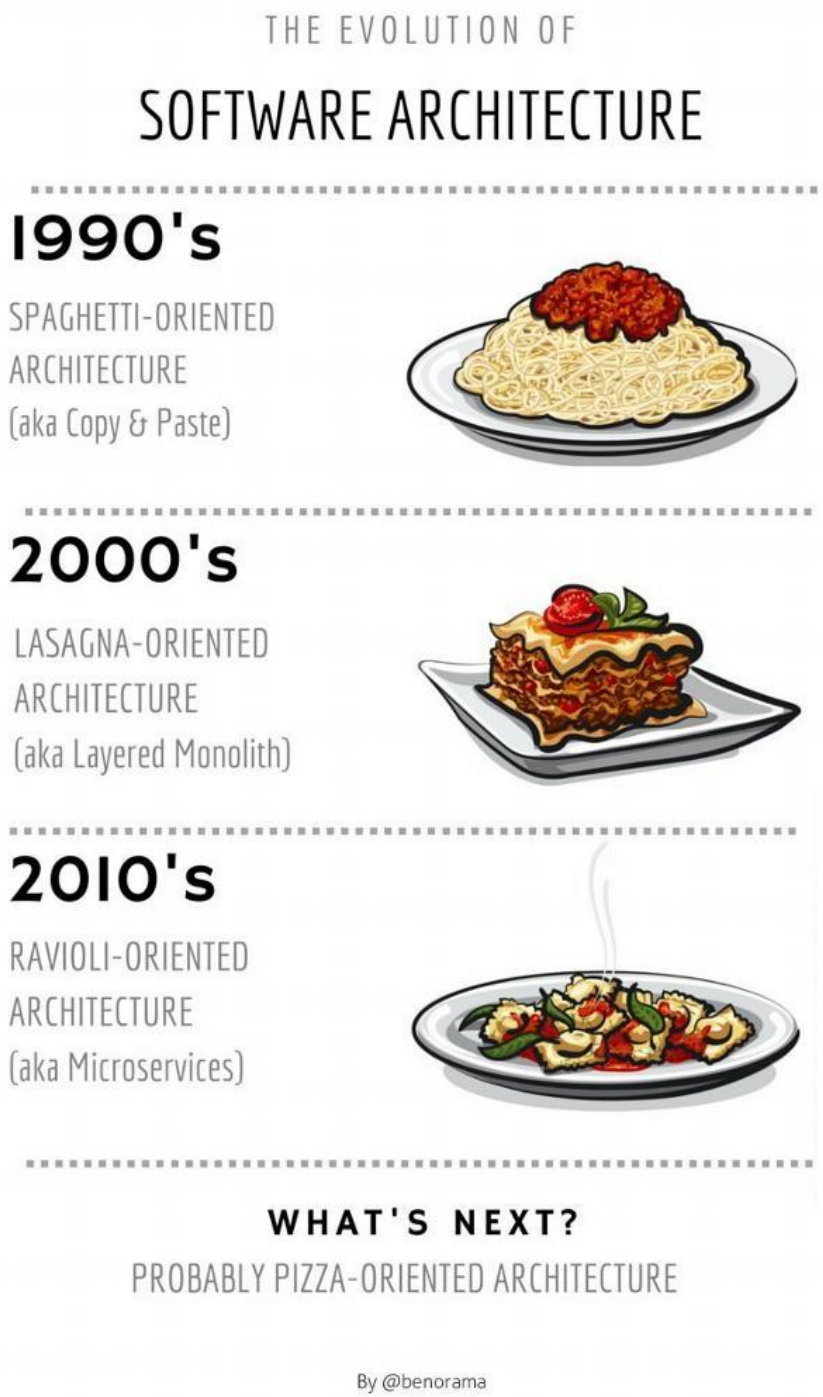
Containers - ~~Micro~~services

Monolithic vs ~~Micro~~services Architectures





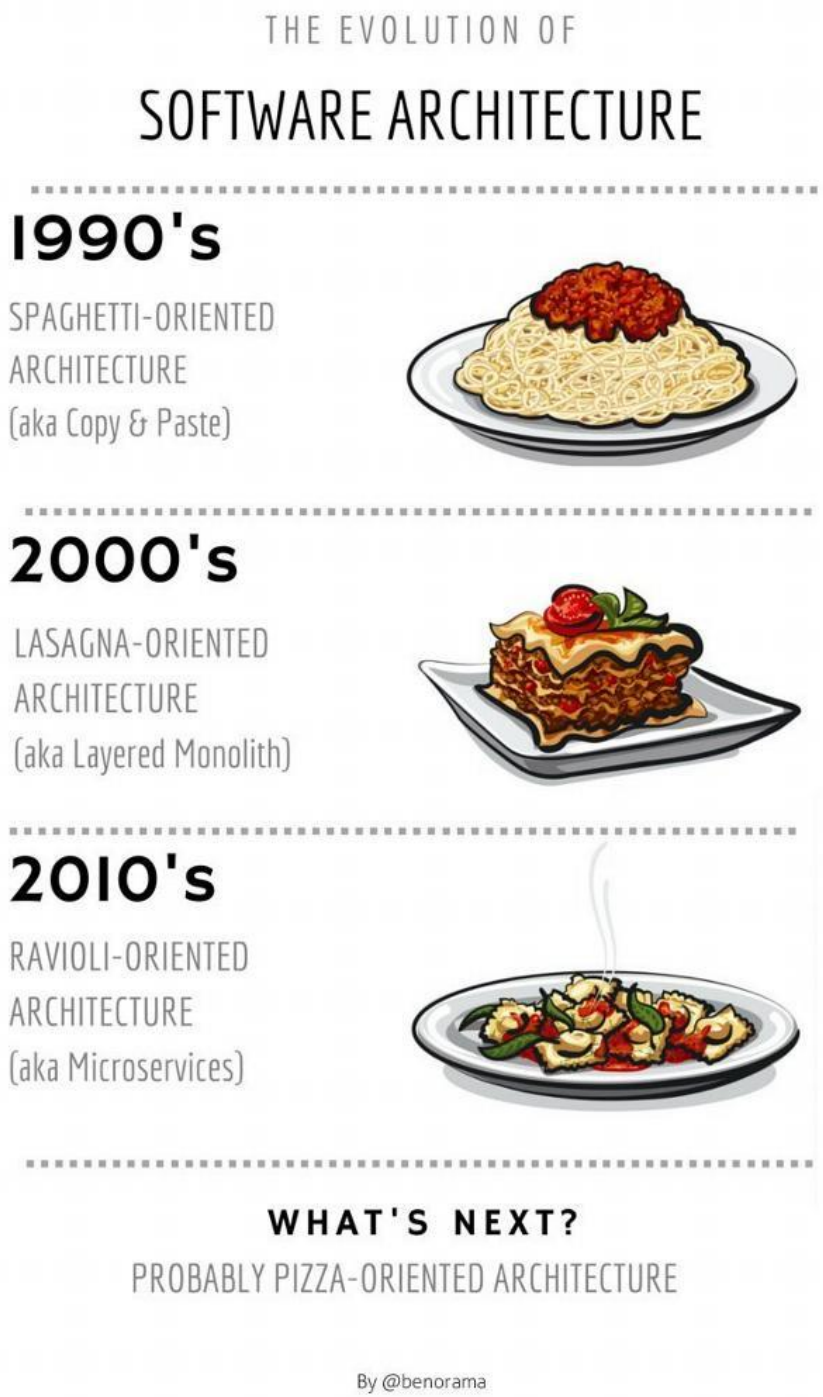
~~Micro~~services



~~Micro~~services

- Independent Version/Deploy
- Independent Scaling

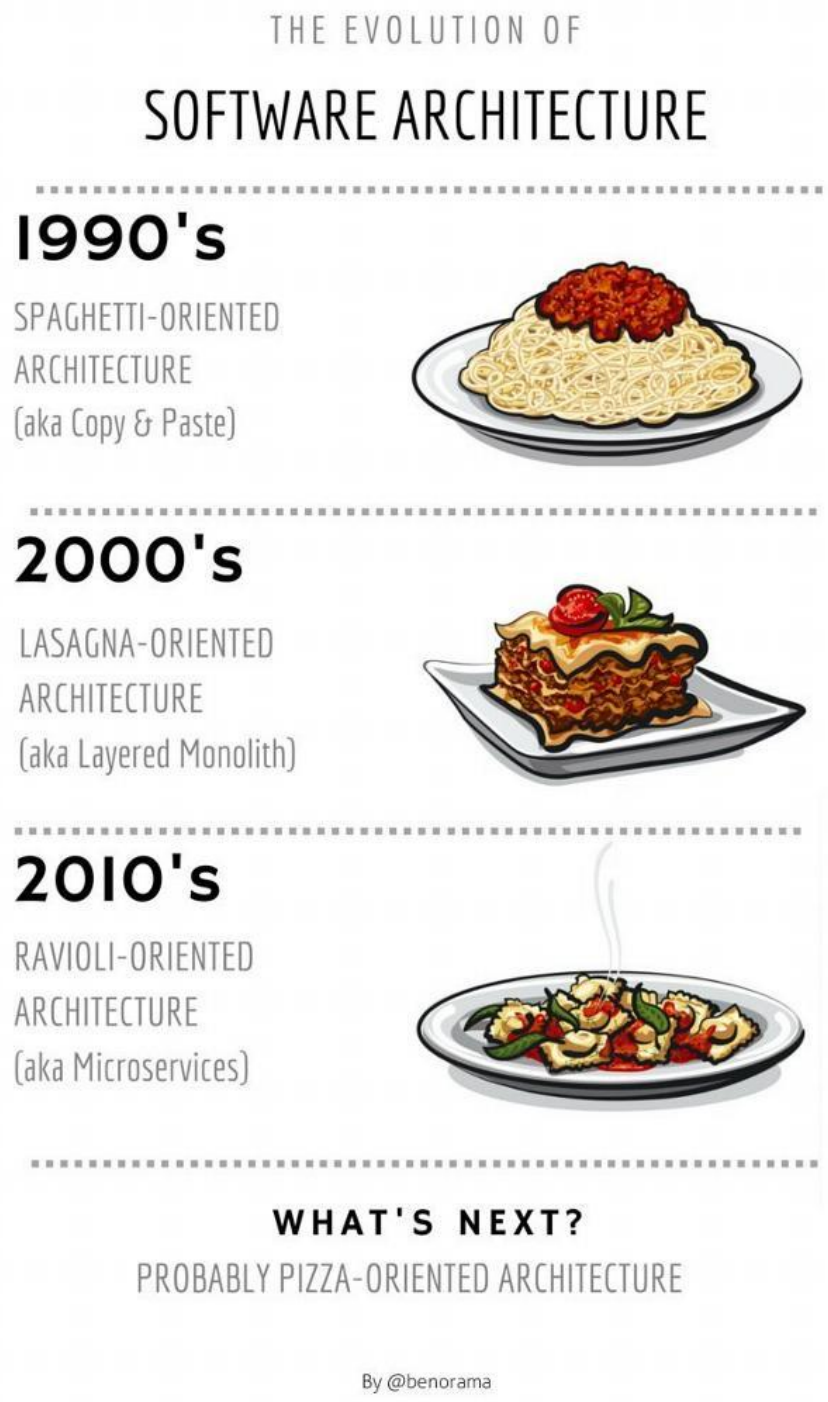
https://en.wikipedia.org/wiki/Microservices



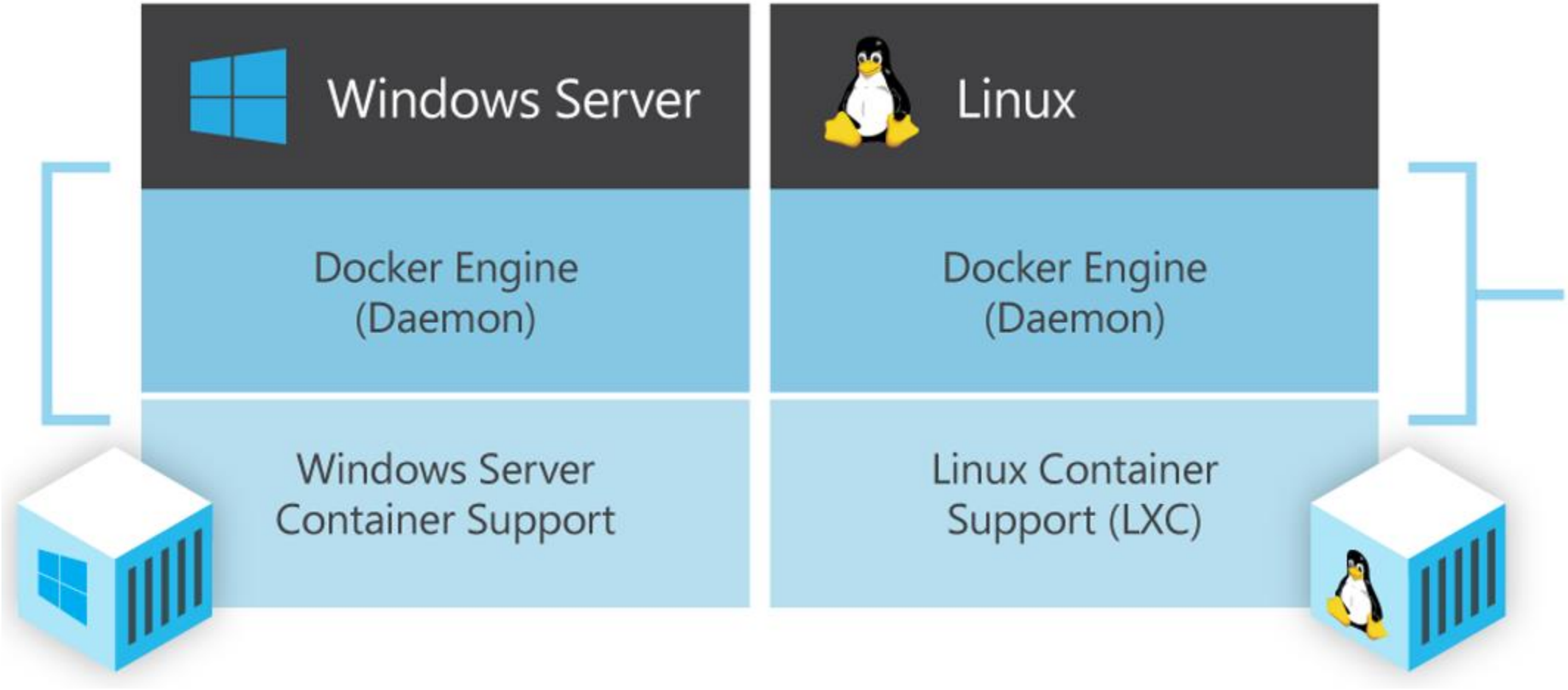
~~Micro~~services

- Independent Version/Deploy
- Independent Scaling

Tutto il resto è una balla....



Type of Containers

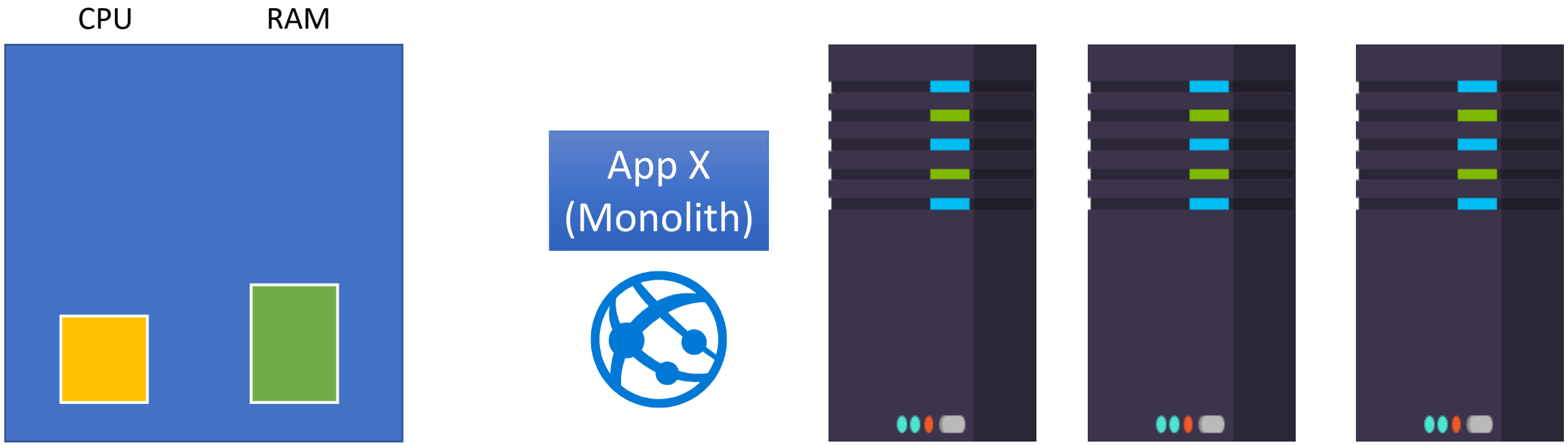


Most famous Container Platforms

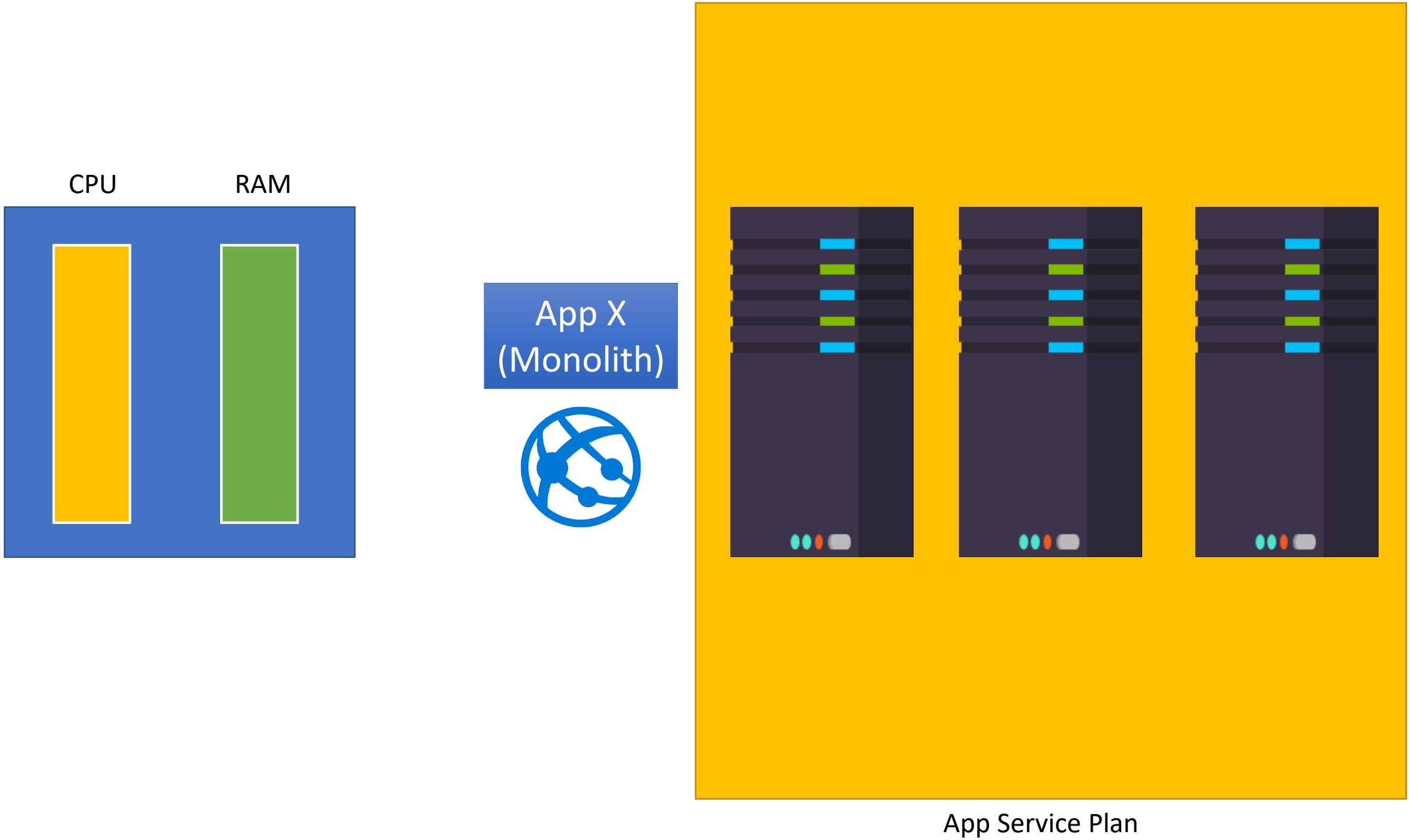
Container Platform	Docker Datacenter	DC/OS	OPENSHIFT by Red Hat
Container Dashboard	Docker Universal Control Plane	Marathon	OPENSHIFT by Red Hat
Container Orchestration	Swarm	MESOS	kubernetes
Container Engine	docker	docker MESOS	docker

on cloud

App X
(Monolith)



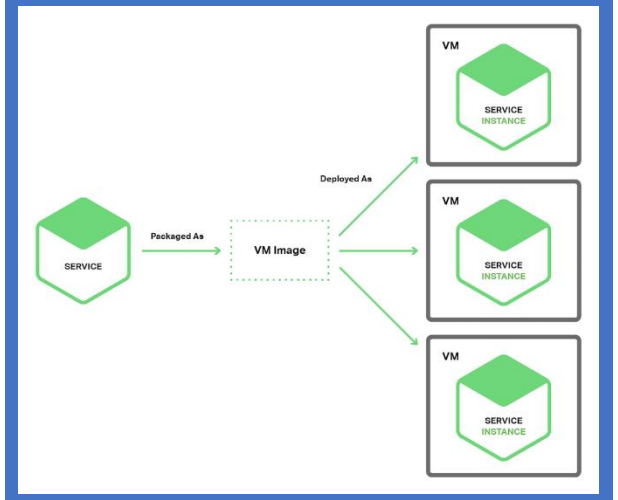
App Service Plan


CPU
RAM
App X
(Monolith)
App Service Plan

Azure Deployment Models and Technologies

More efficient

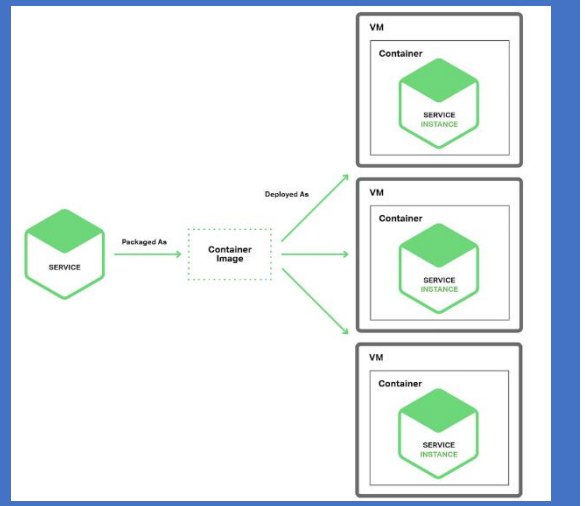
Service Instance per Host/VM



Cloud Services

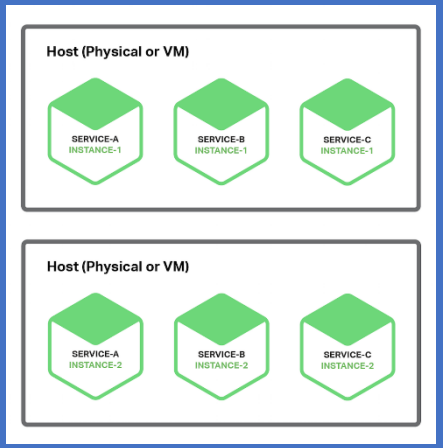
VM Scale Sets

Service Instance per Container



Docker, Openshift, Mesosphere

Multiple Service Instances per Host/VM



Service Fabric

CloudFoundry

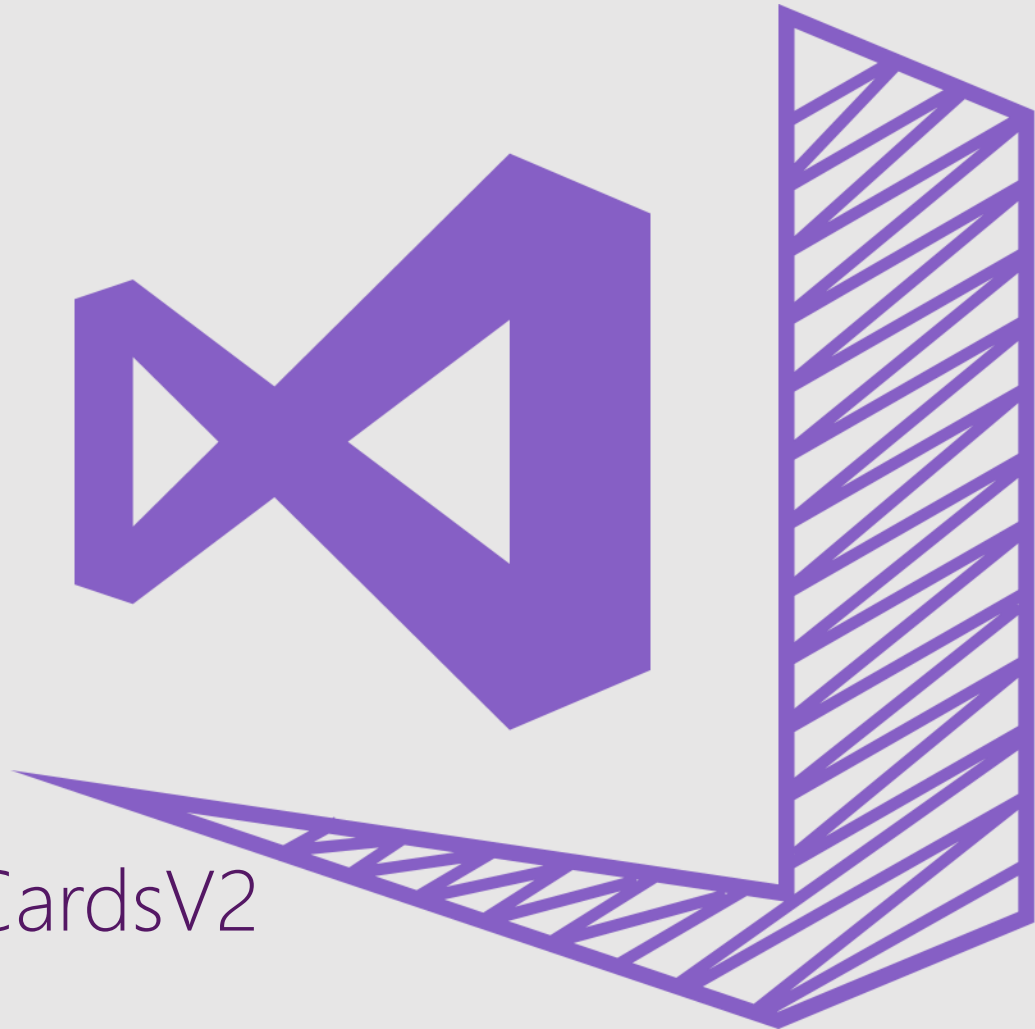
Serverless

Azure Functions

AWS Lambda

Demo

Azure Functions
Go Jessica Go



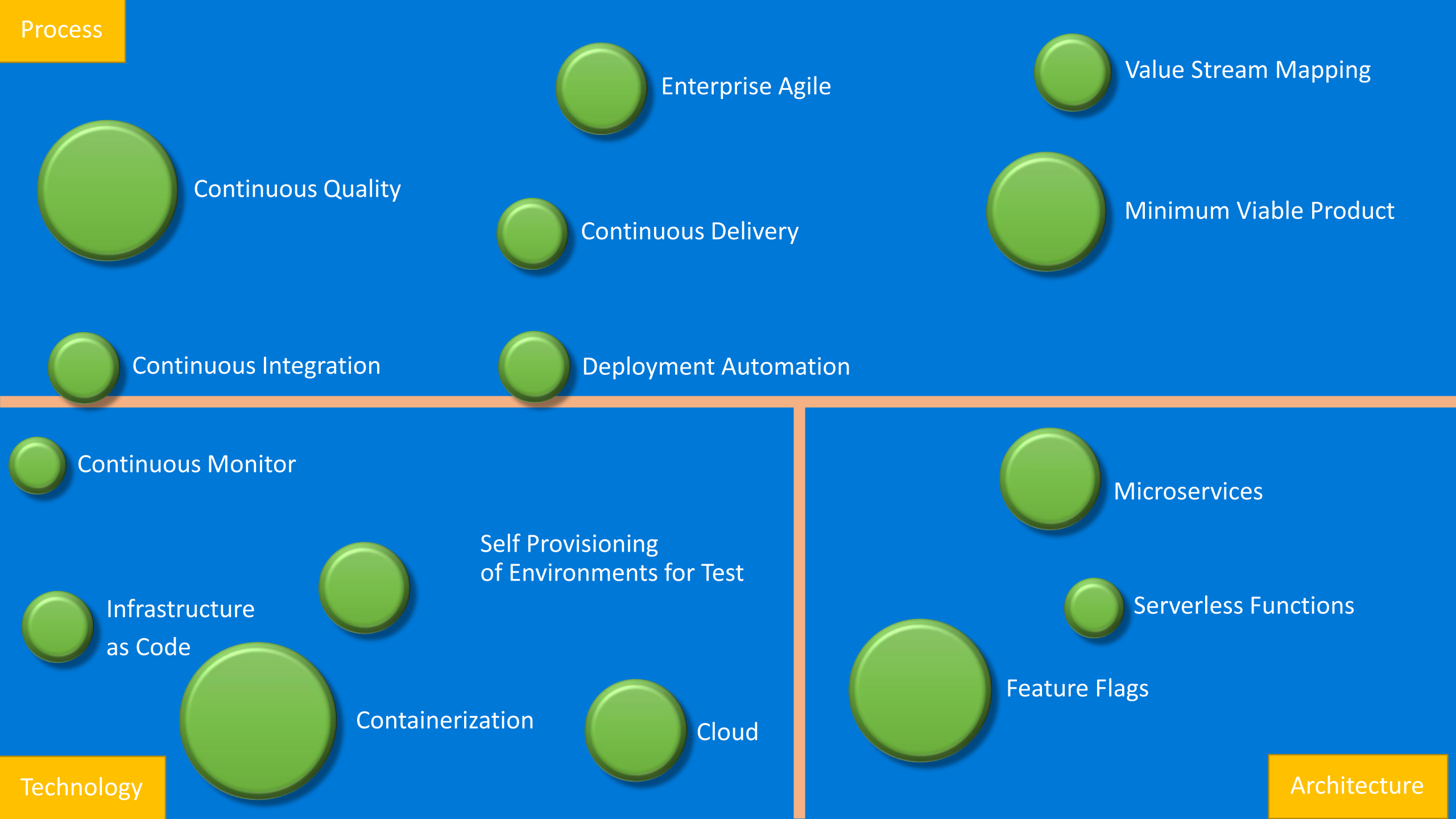
https://github.com/lindydonna/CoderCardsV2

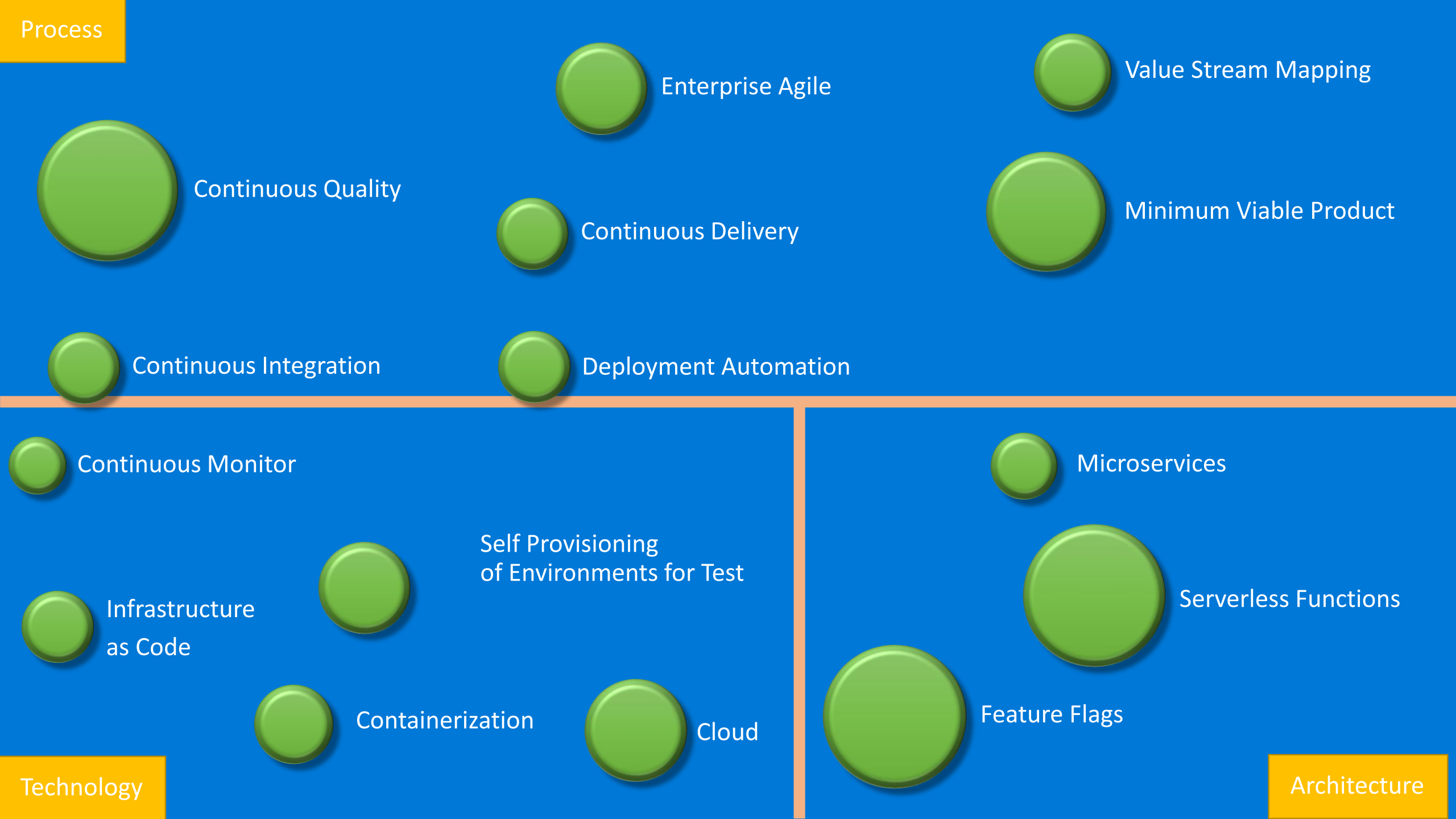
DevOps Practices

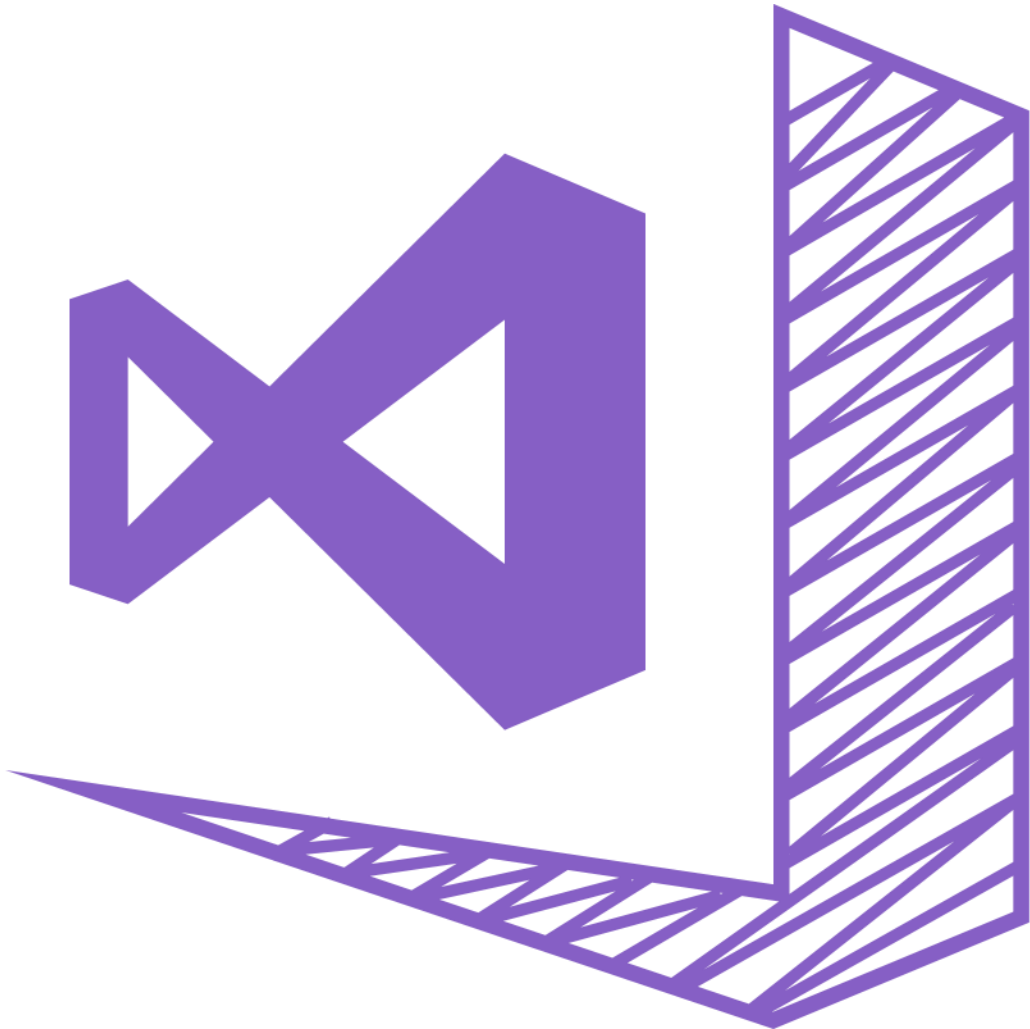
Process

Technology

Architecture


Process
Enterprise Agile
Value Stream Mapping
Continuous Quality
Continuous Delivery
Minimum Viable Product
Continuous Integration
Deployment Automation
Continuous Monitor
Self Provisioning
of Environments for Test
Infrastructure
as Code
Containerization
Cloud
Technology
Microservices
Serverless Functions
Feature Flags
Architecture


Process
Enterprise Agile
Value Stream Mapping
Continuous Quality
Continuous Delivery
Minimum Viable Product
Continuous Integration
Deployment Automation
Continuous Monitor
Microservices
Self Provisioning
of Environments for Test
Infrastructure
as Code
Serverless Functions
Containerization
Cloud
Feature Flags
Technology
Architecture

Q&A

Jessica e Giancarlo
Technical Evangelist e Technical Solution Professional
@_jetiba @giancarlosudano
jessica.tibaldi@microsoft.com gisudano@microsoft.com
Microsoft Italia - DX