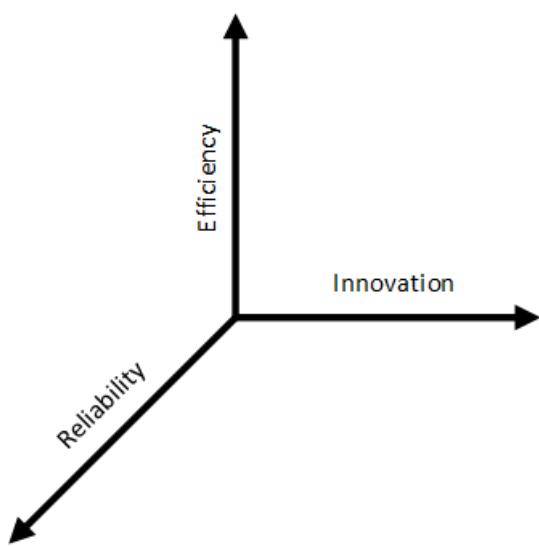
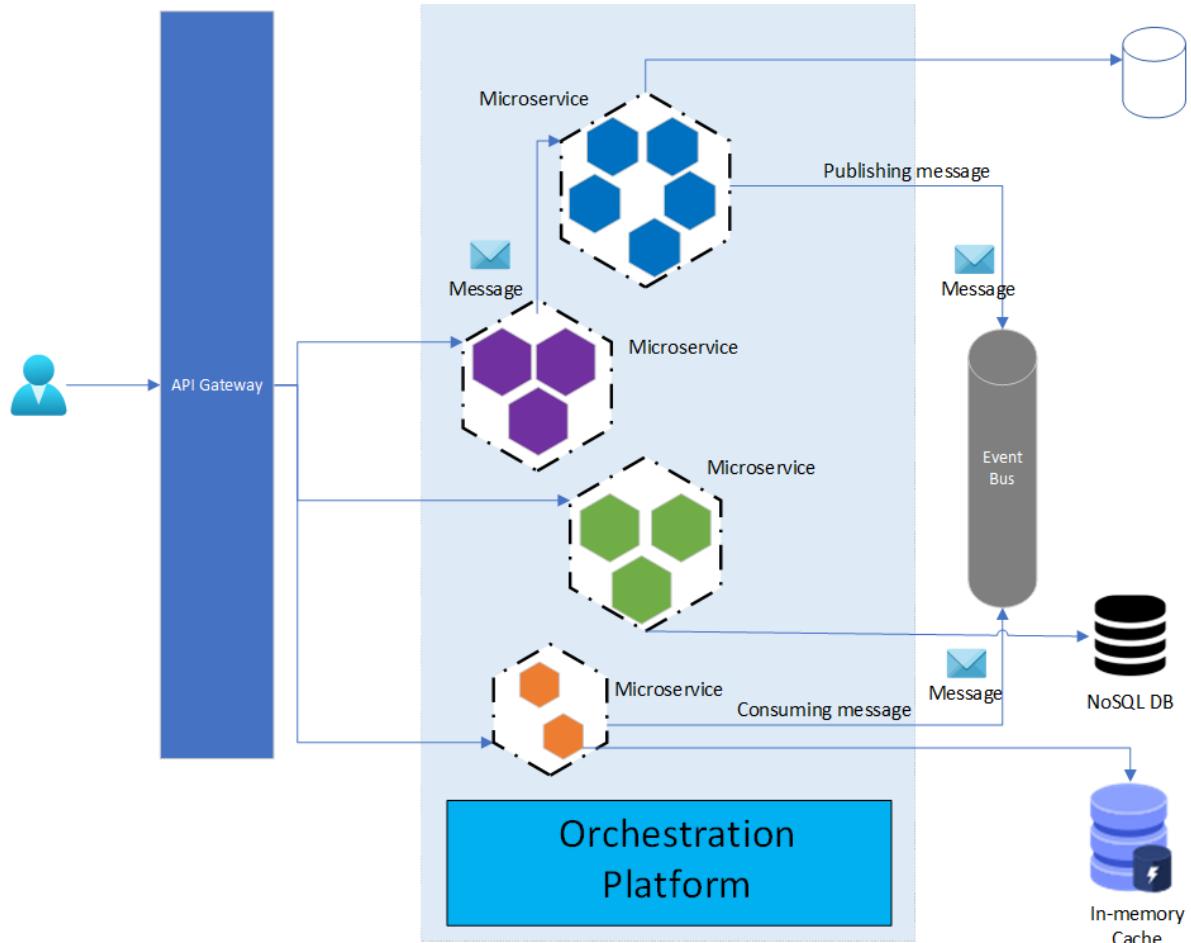
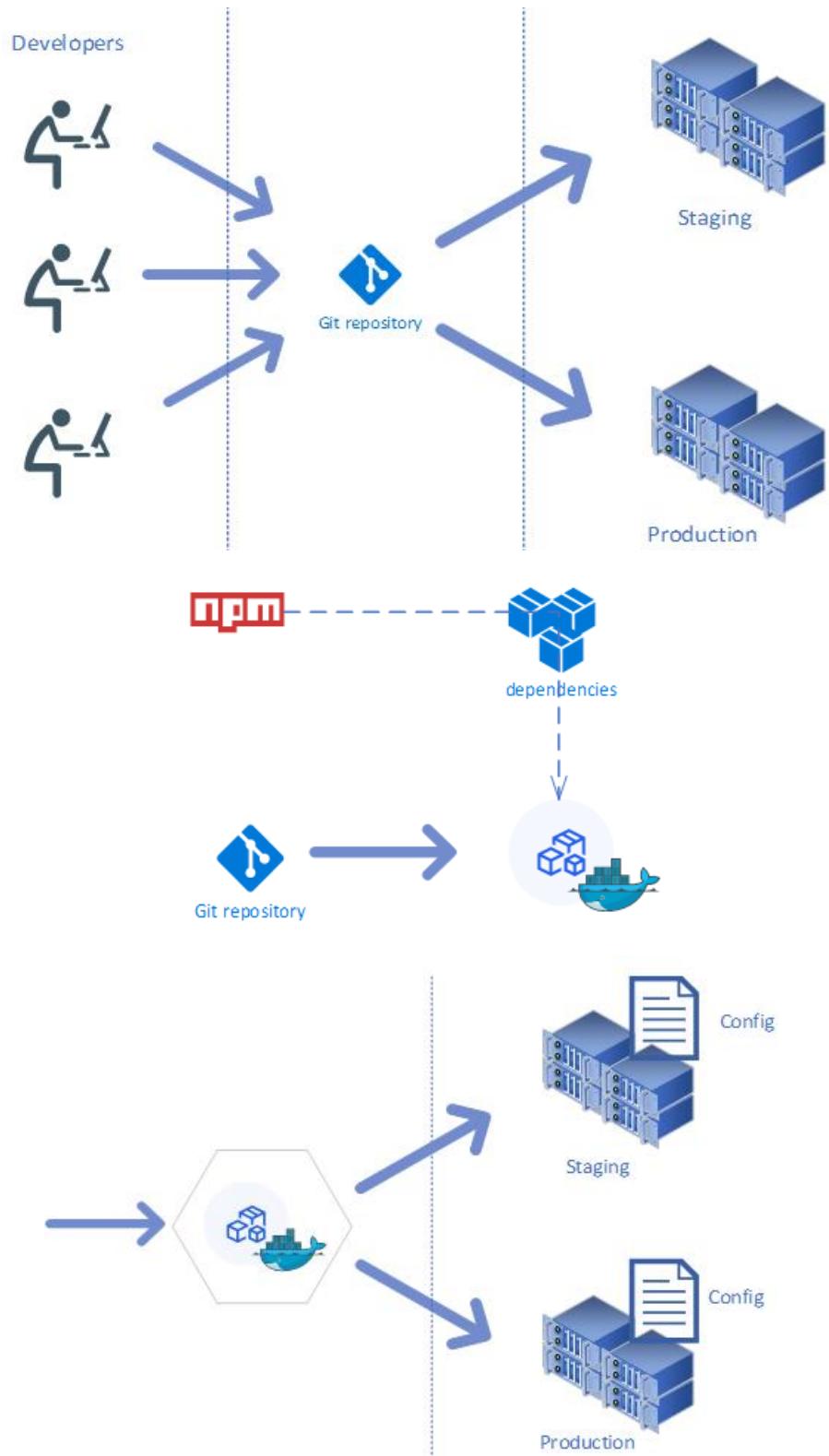
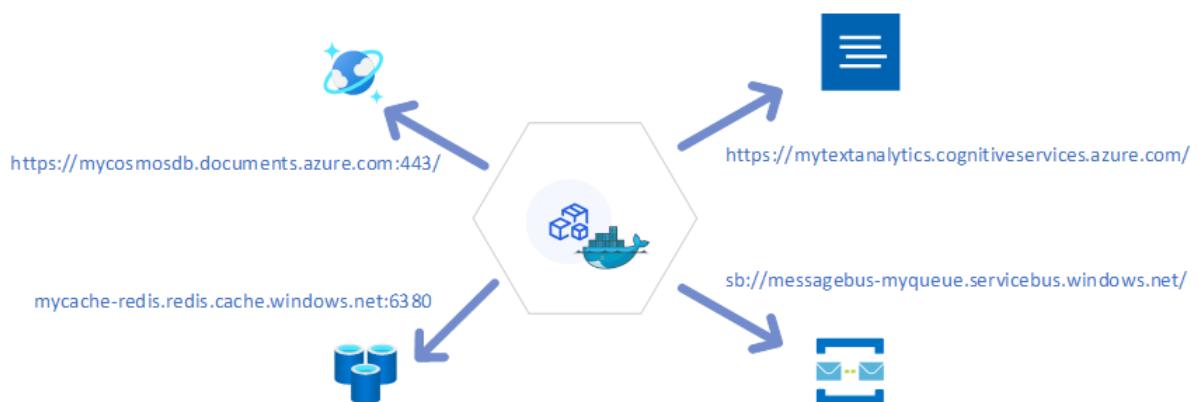
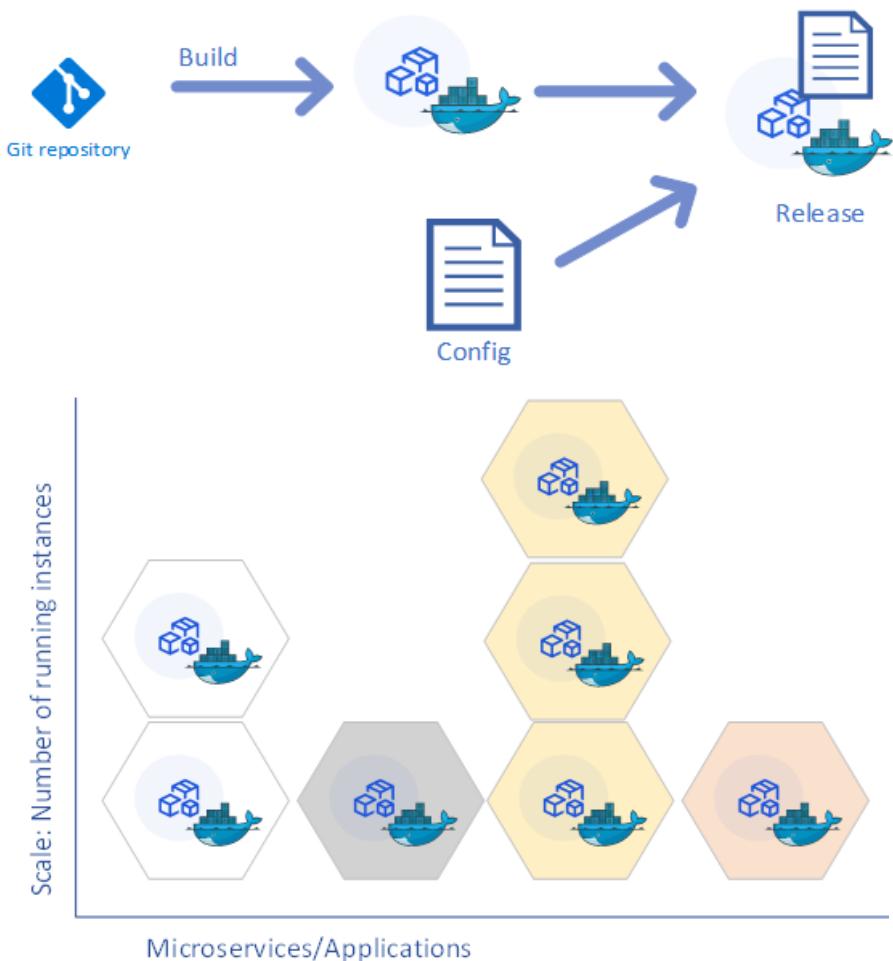


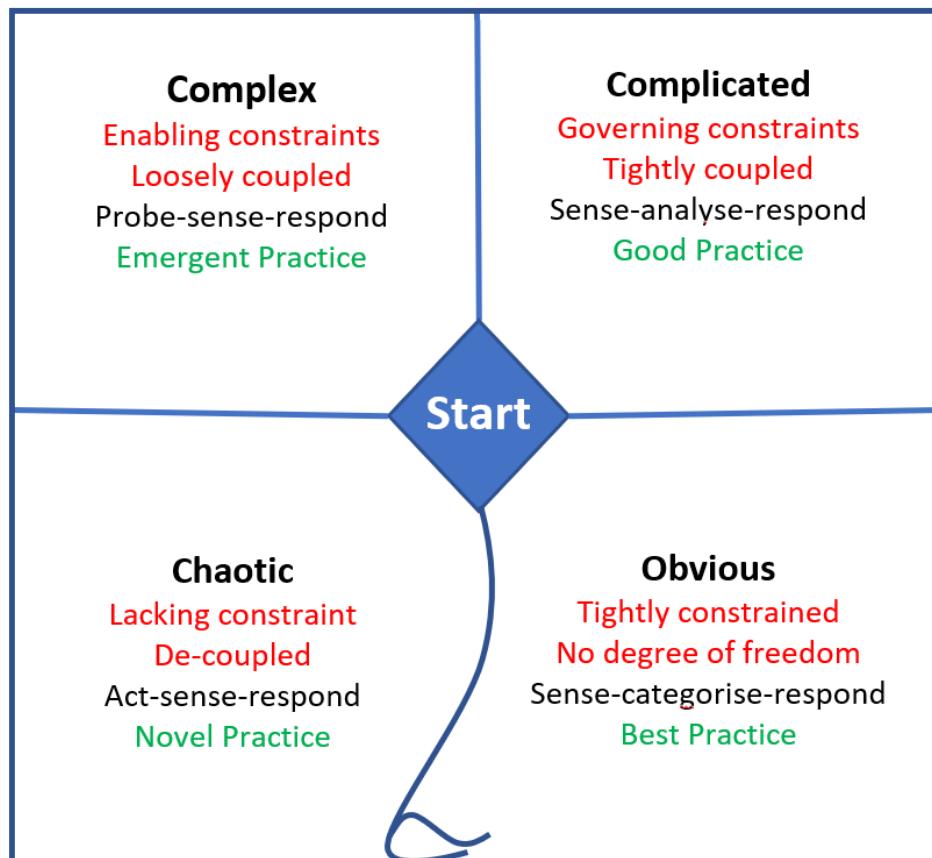
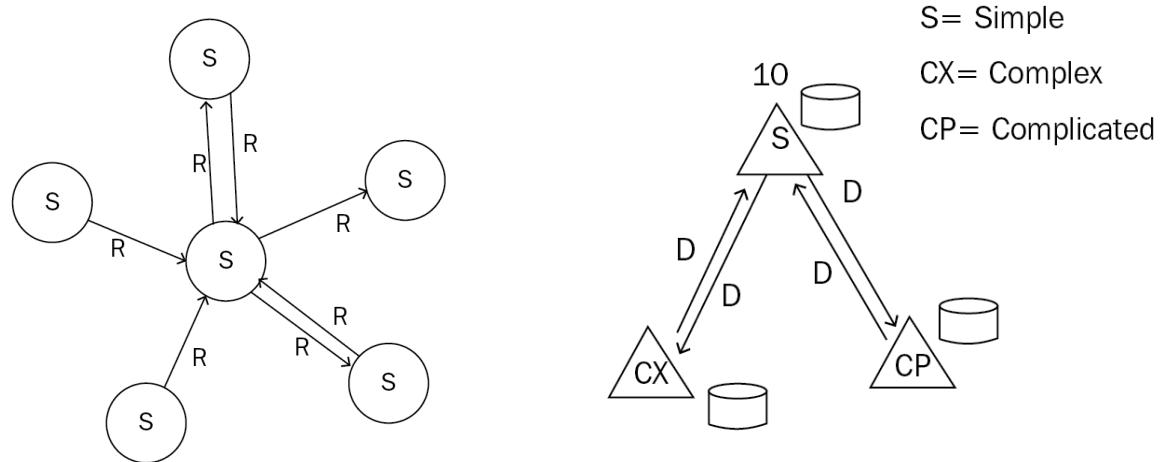
Chapter 1: Setting Up Your Mindset for a Microservices Endeavor

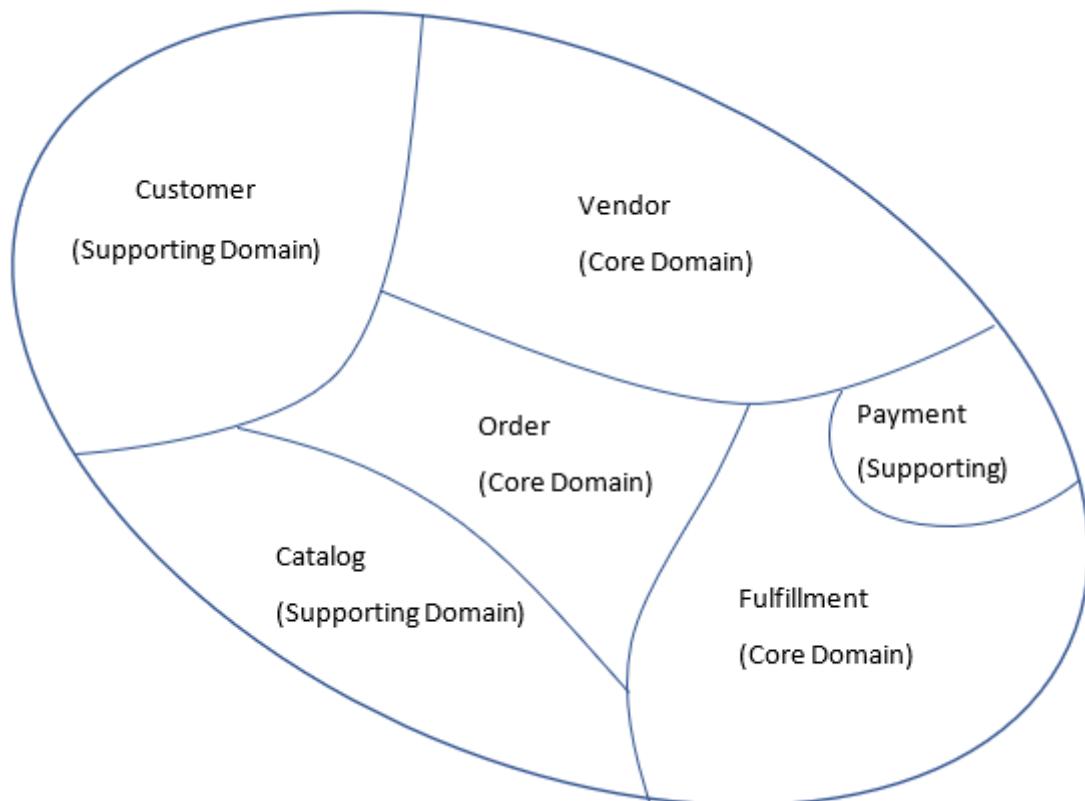
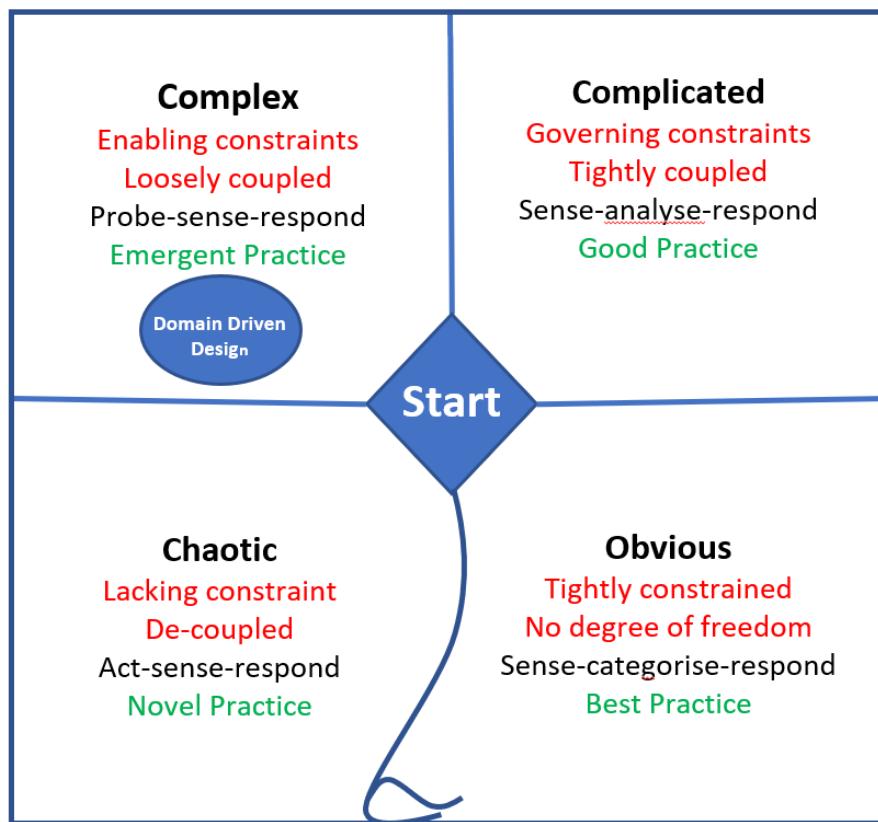


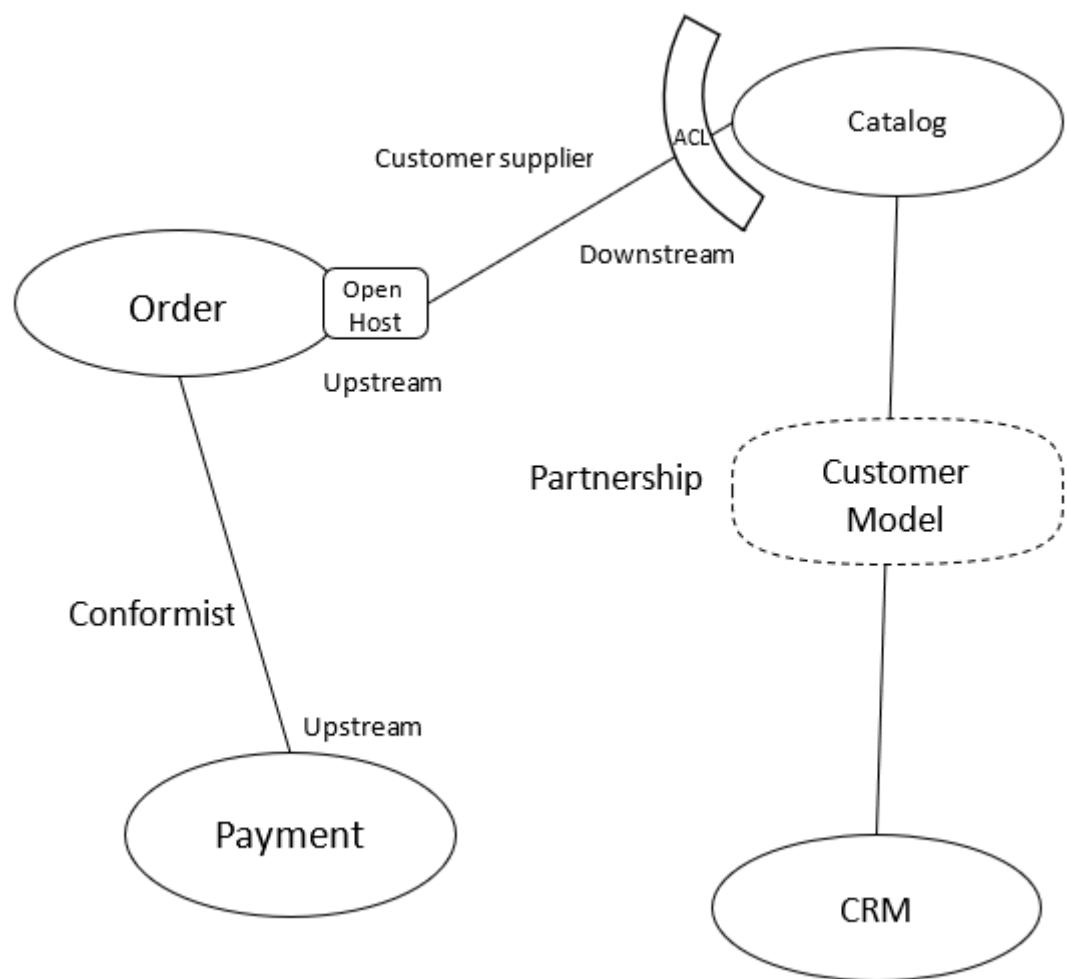
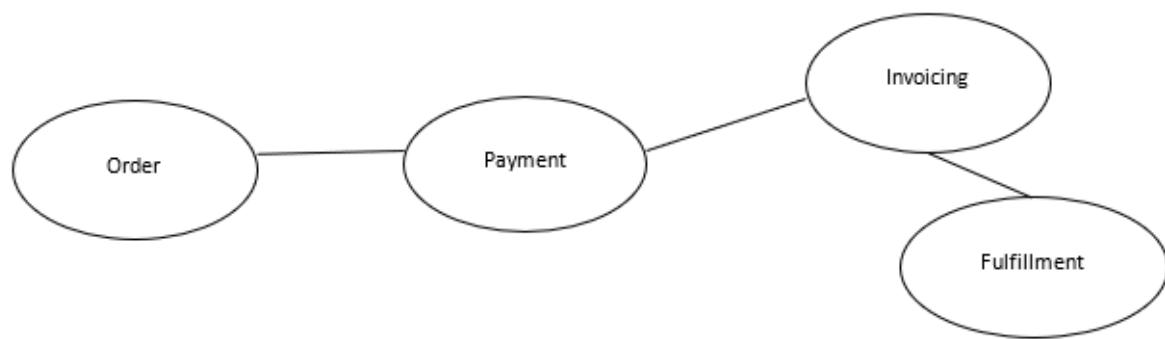


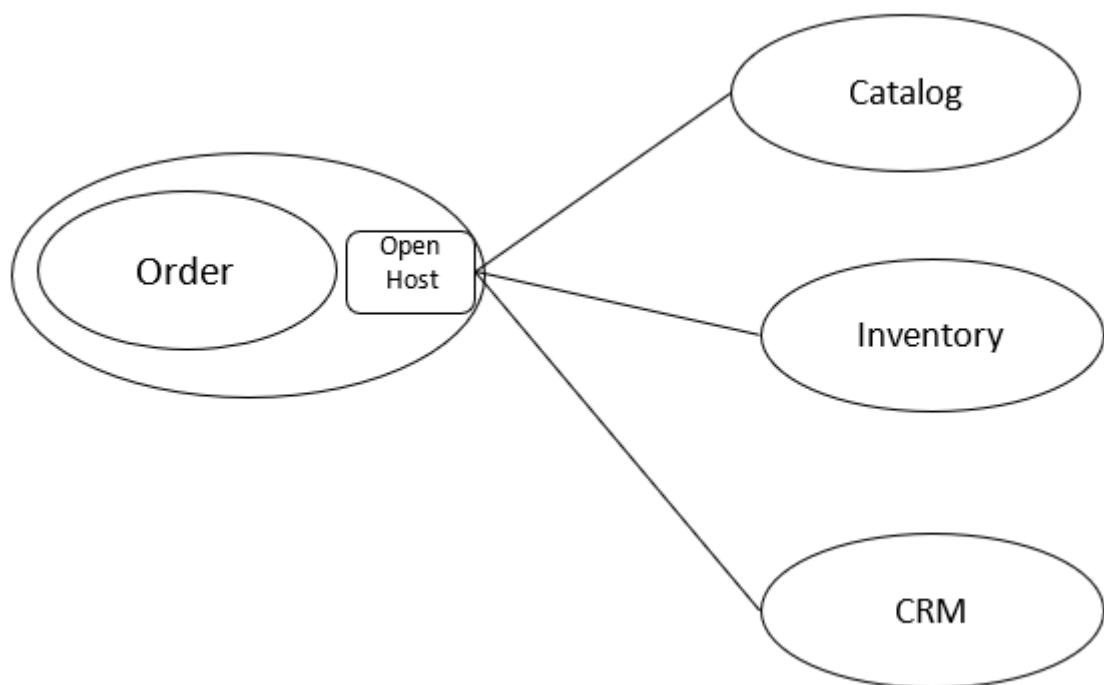
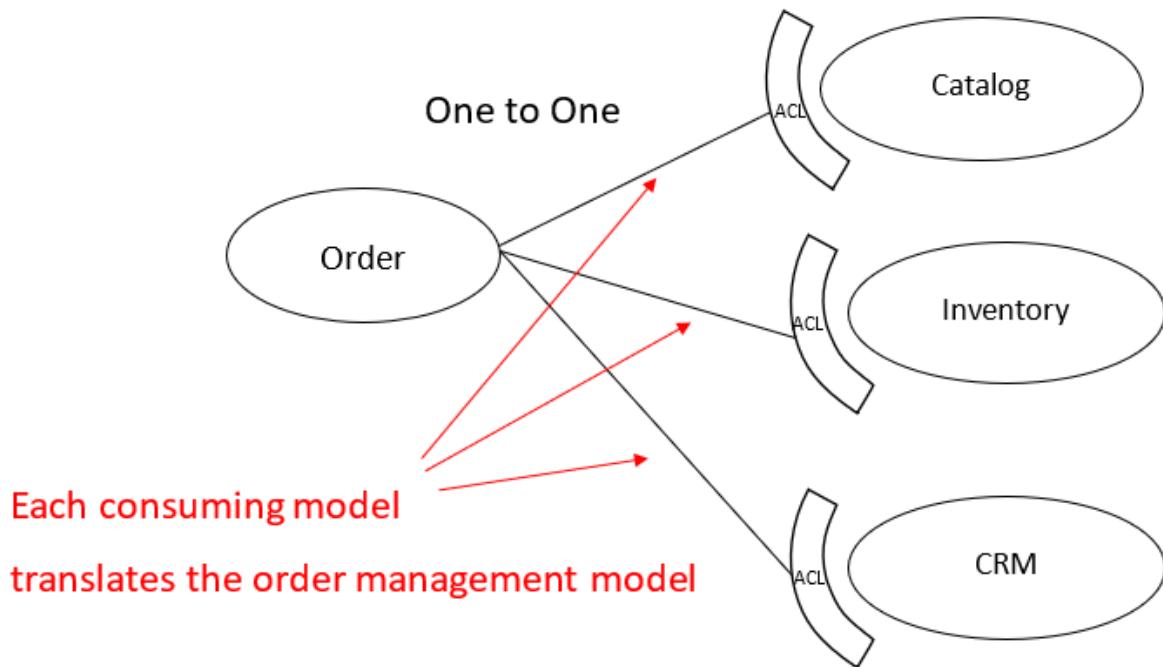


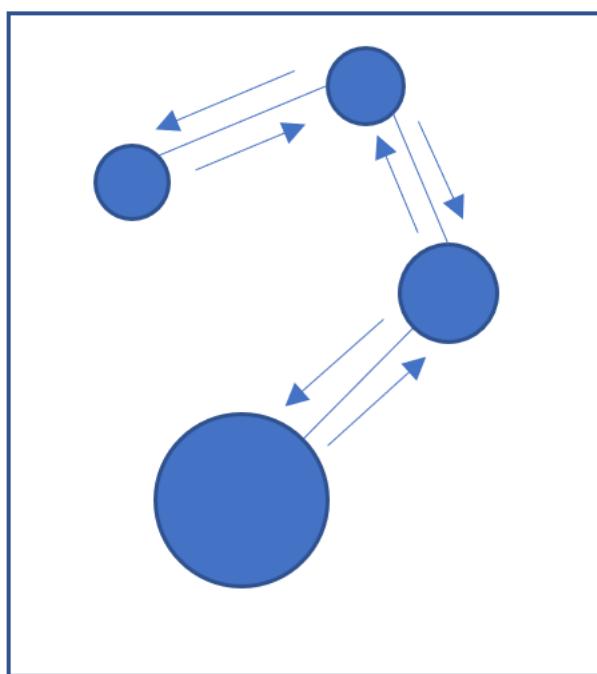
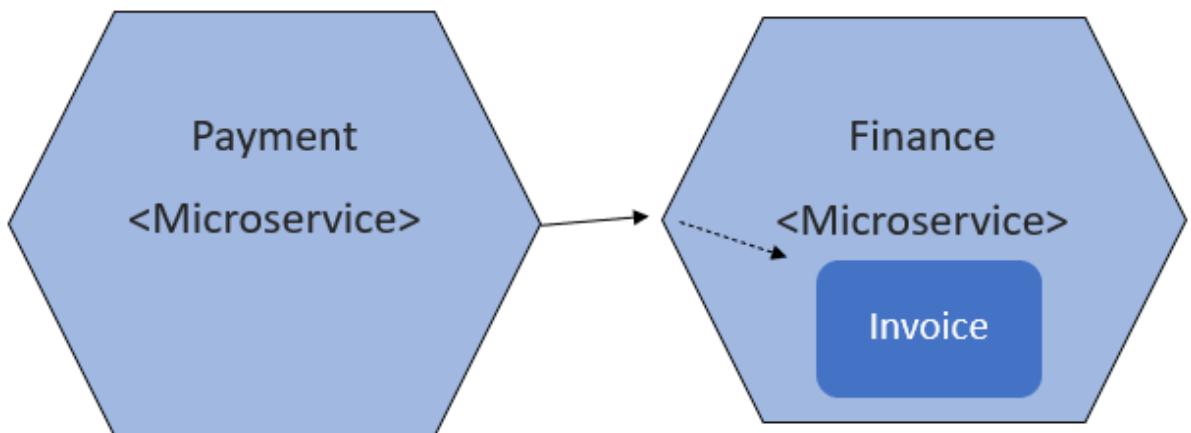
Chapter 2: Failing to Understand the Role of Domain-Driven Design

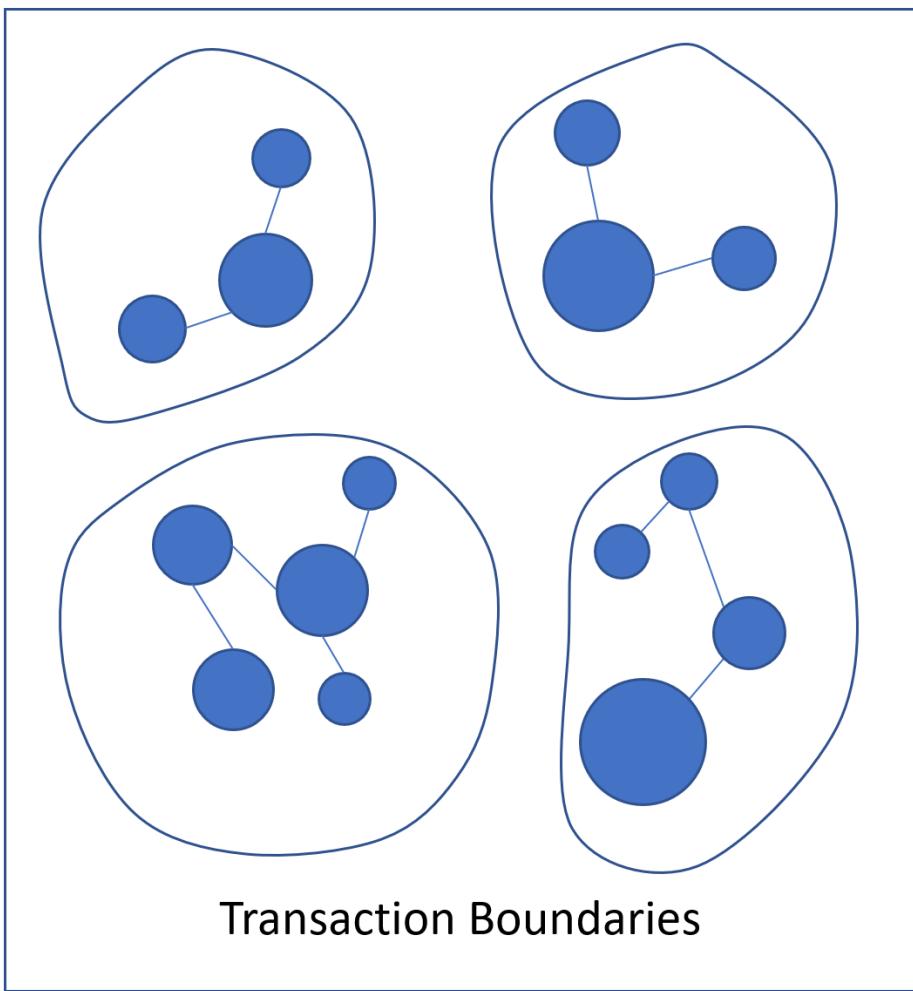
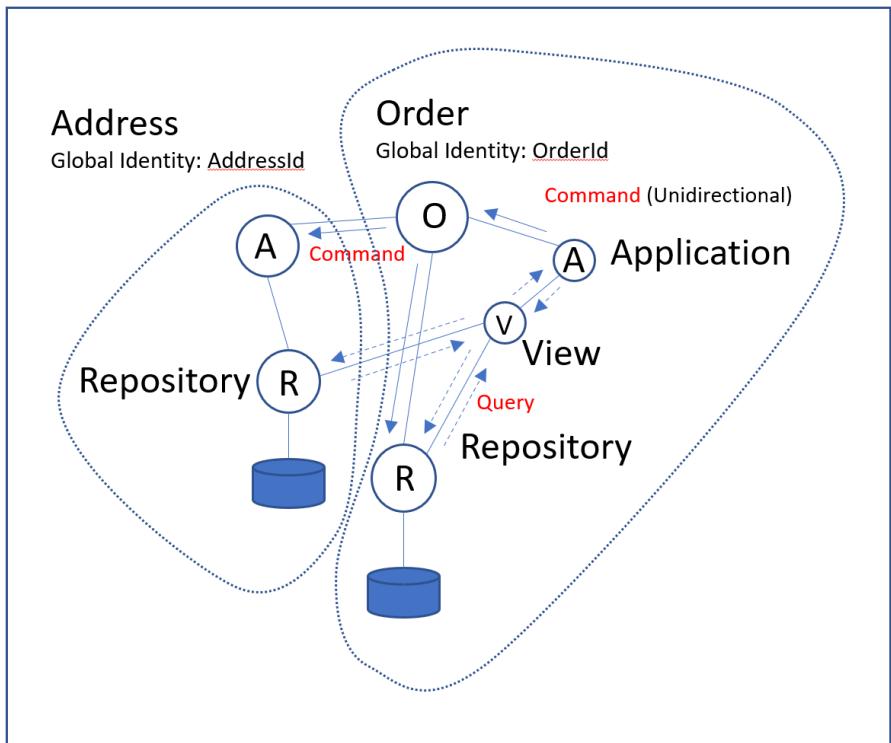




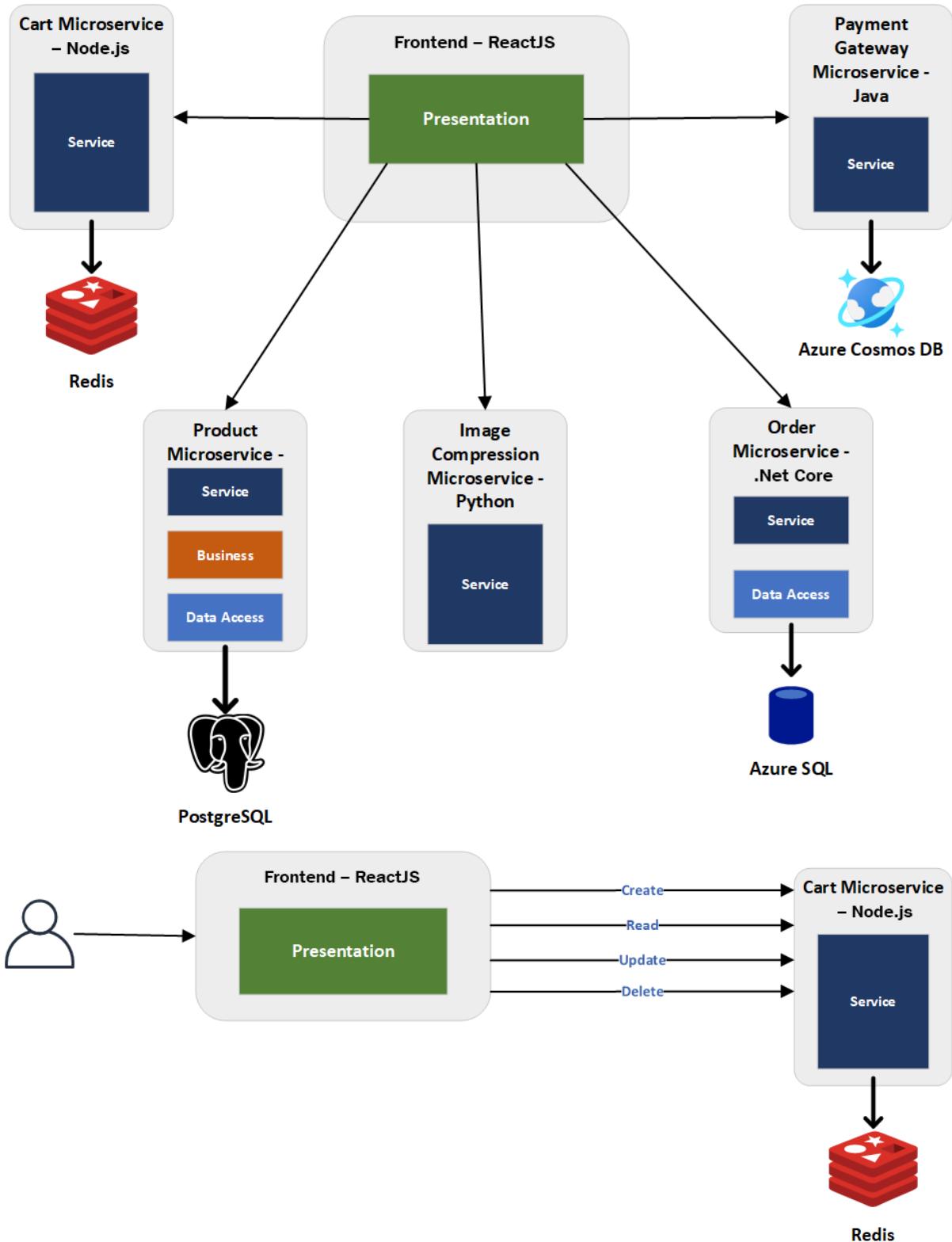


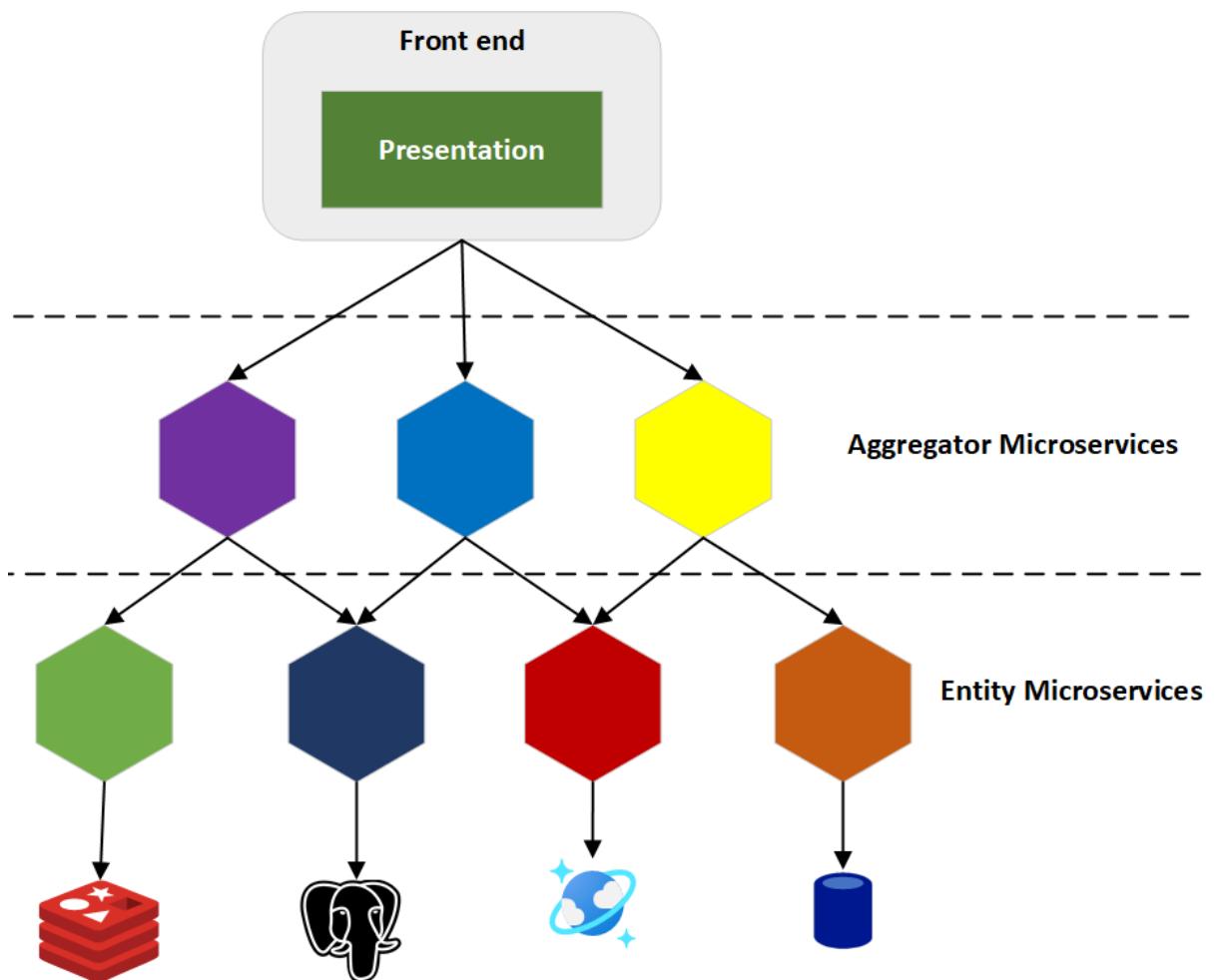
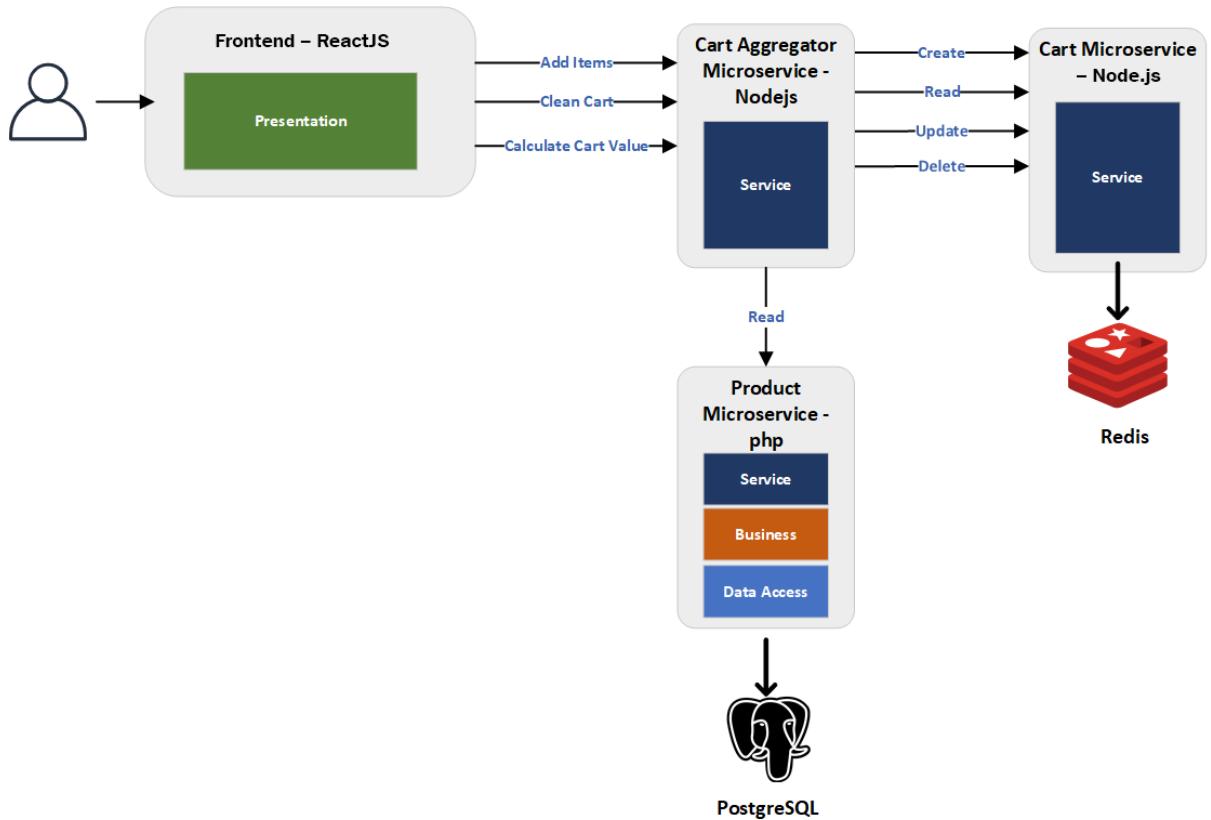


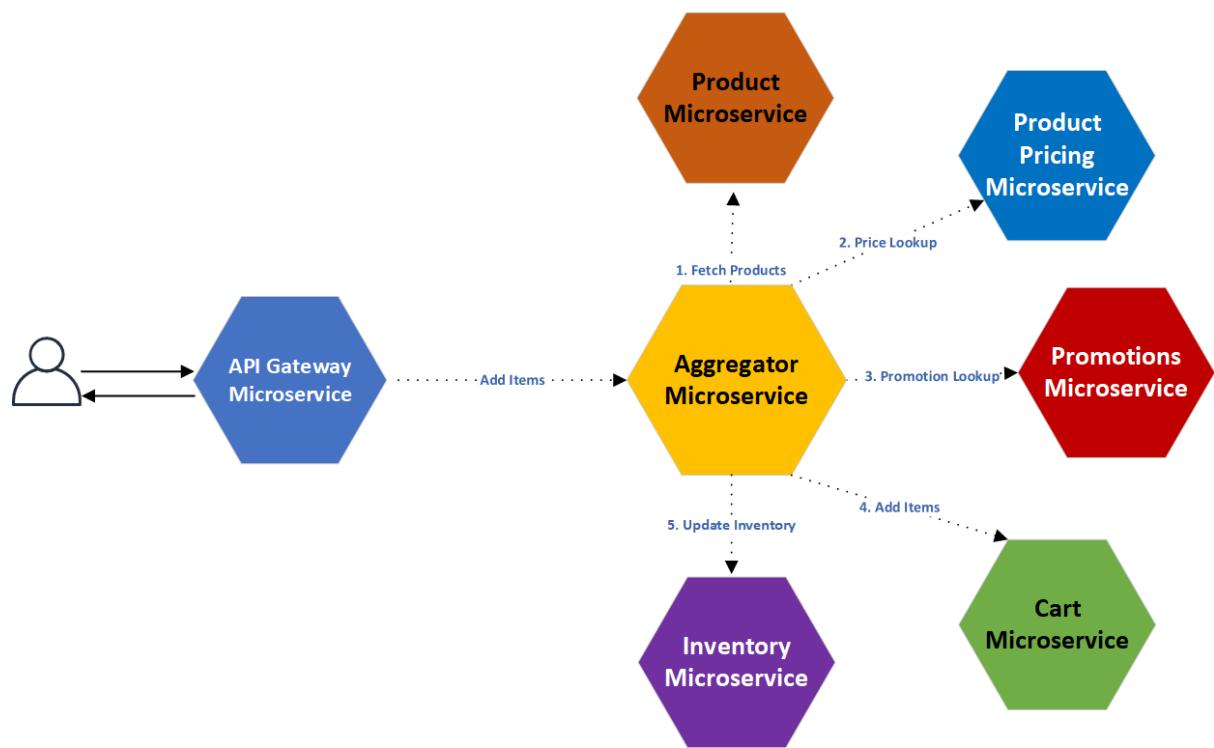
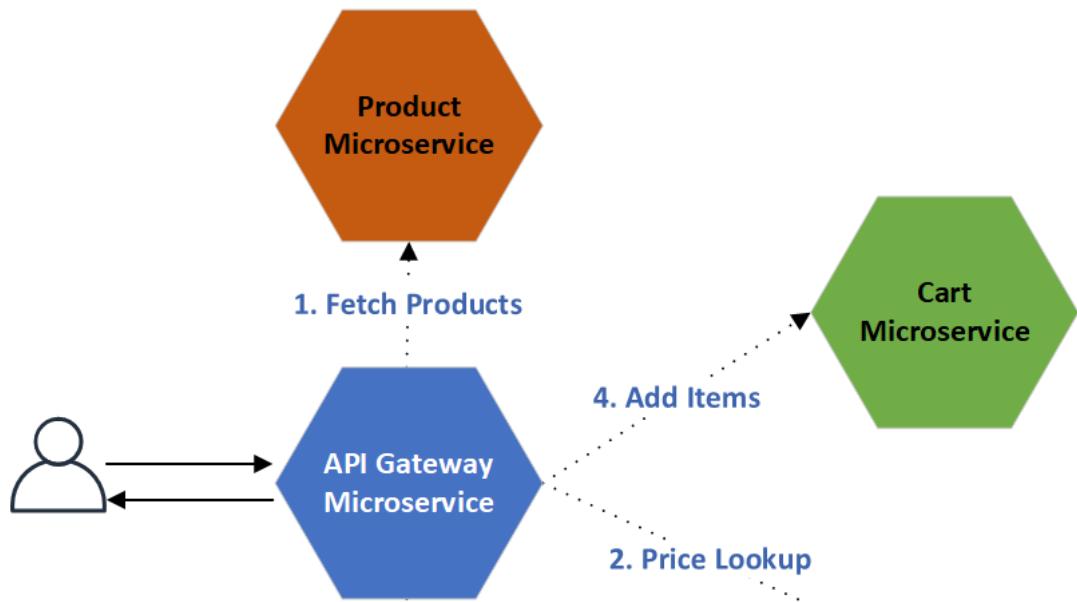


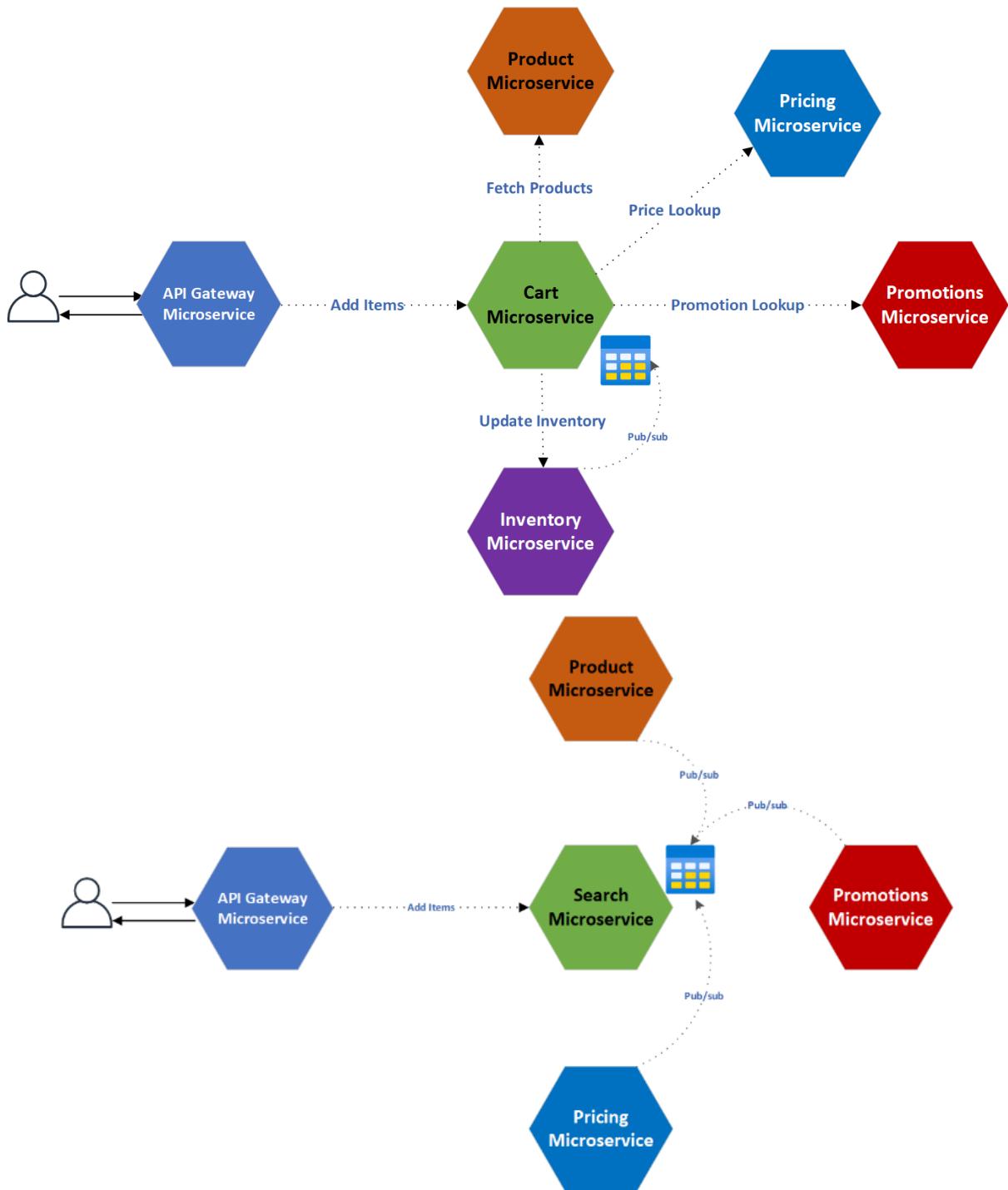


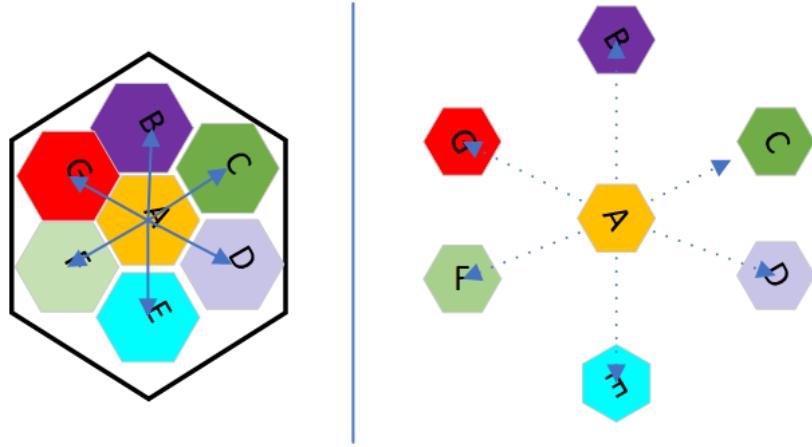
Chapter 3: Microservice Architecture Pitfalls











Features	Istio	Linkerd	Consul	Traefik Mesh
Architecture				
Platform	KBs & VMs	Kubernetes	KBs & VMs	Kubernetes
Ingress Controller	Istio Ingress or Istio Gateway	Any	Envoy and Ambassador	Any
High Availability	Yes	Yes	Yes	Yes

Secure Communication

mTLS	Yes	Yes	Yes	
Certificate Management	Yes	Yes	Yes	
Authentication and Authorization	Yes	Yes	Yes	
mTLS	Yes	Yes	Yes	

Communication Protocols

TCP	Yes	Yes	Yes	
HTTP/1.x	Yes	Yes	Yes	
HTTP/2	Yes	Yes	Yes	
gRPC	Yes	Yes	Yes	

Traffic Management

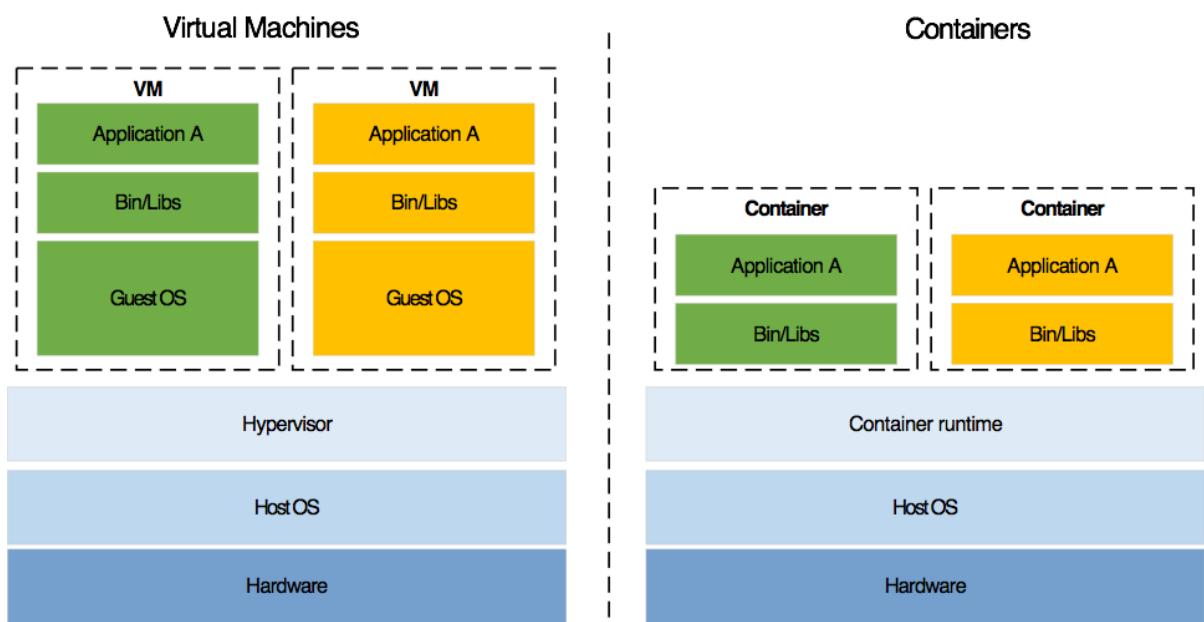
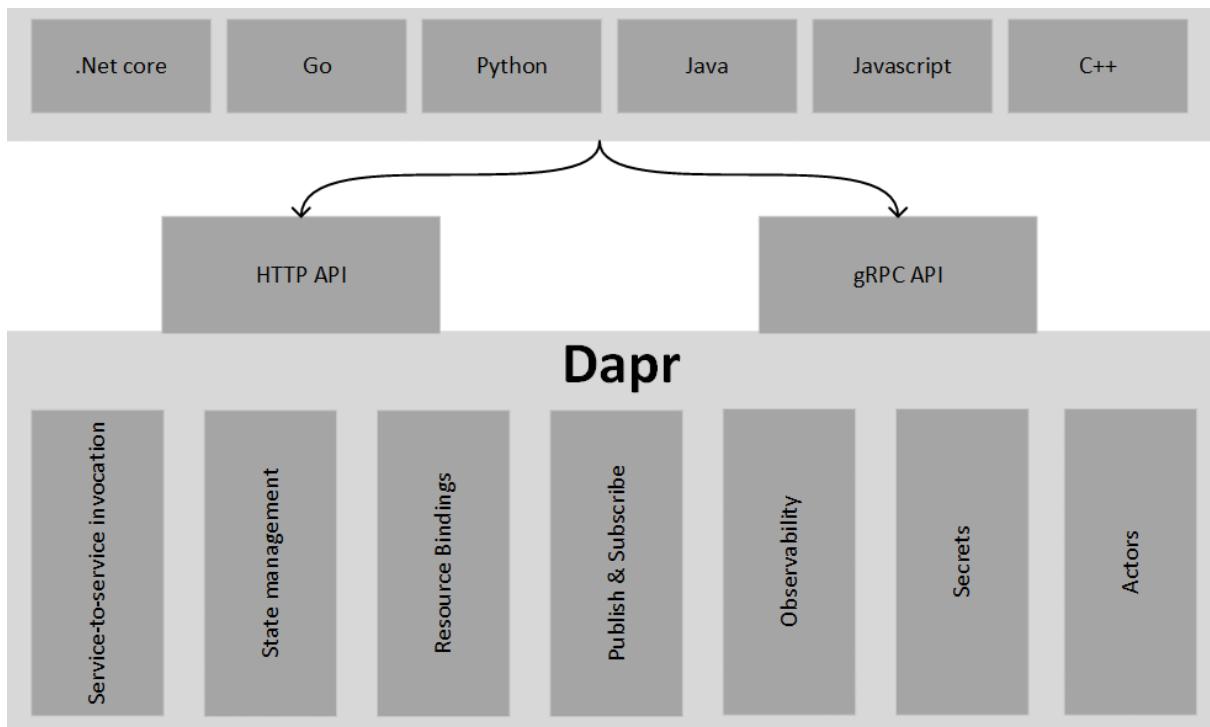
Blue/Green Deployments	Yes	Yes	Yes	
Circuit Breaking	Yes	Yes	Yes	
Fault Injection	Yes	Yes	Yes	
Rate Limiting	Yes	Yes	Yes	

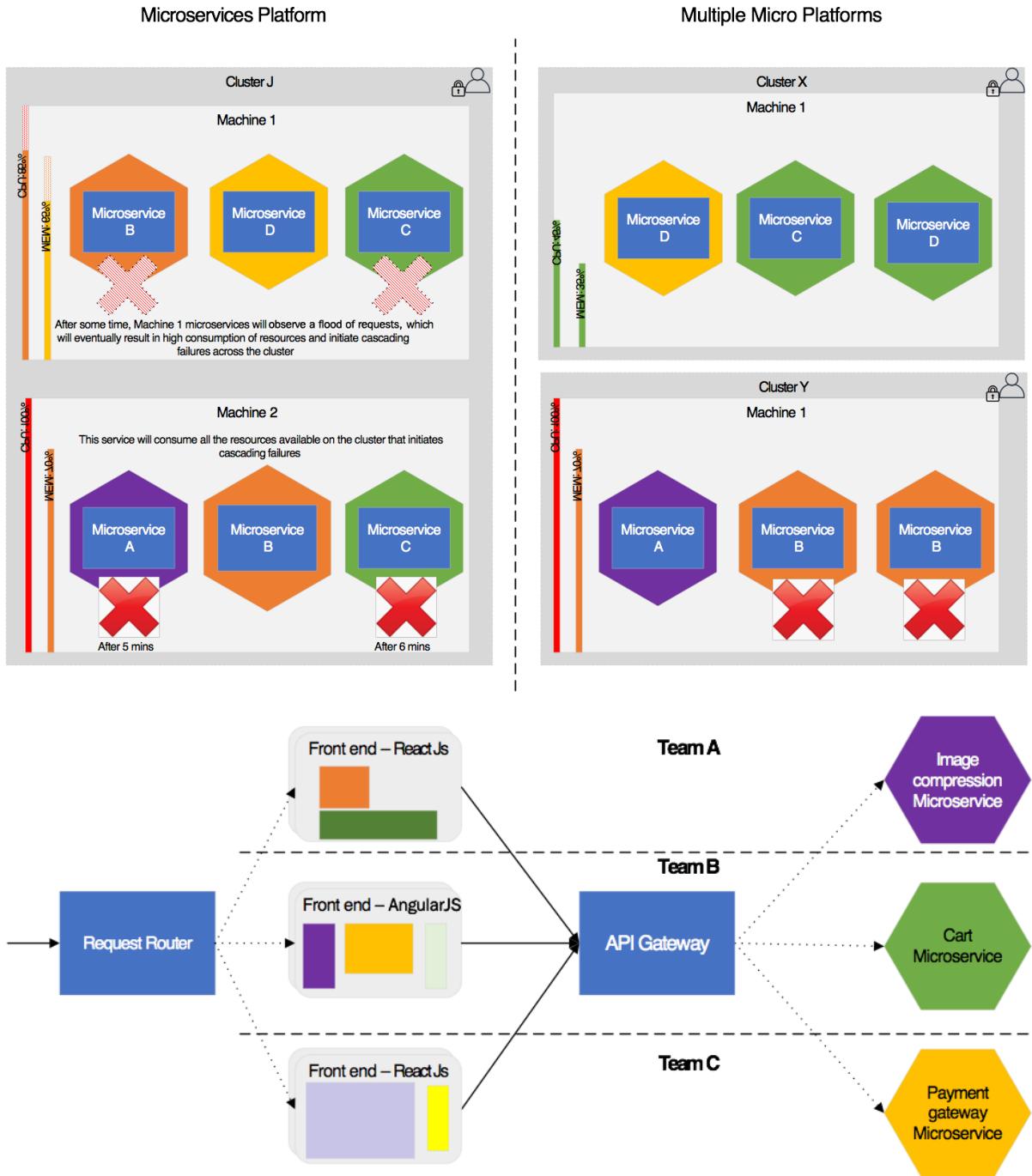
Observability

Monitoring	Yes (Prometheus)	Yes (Prometheus)	Yes (Prometheus)	
Distributed Tracing	Yes	Some	Yes	

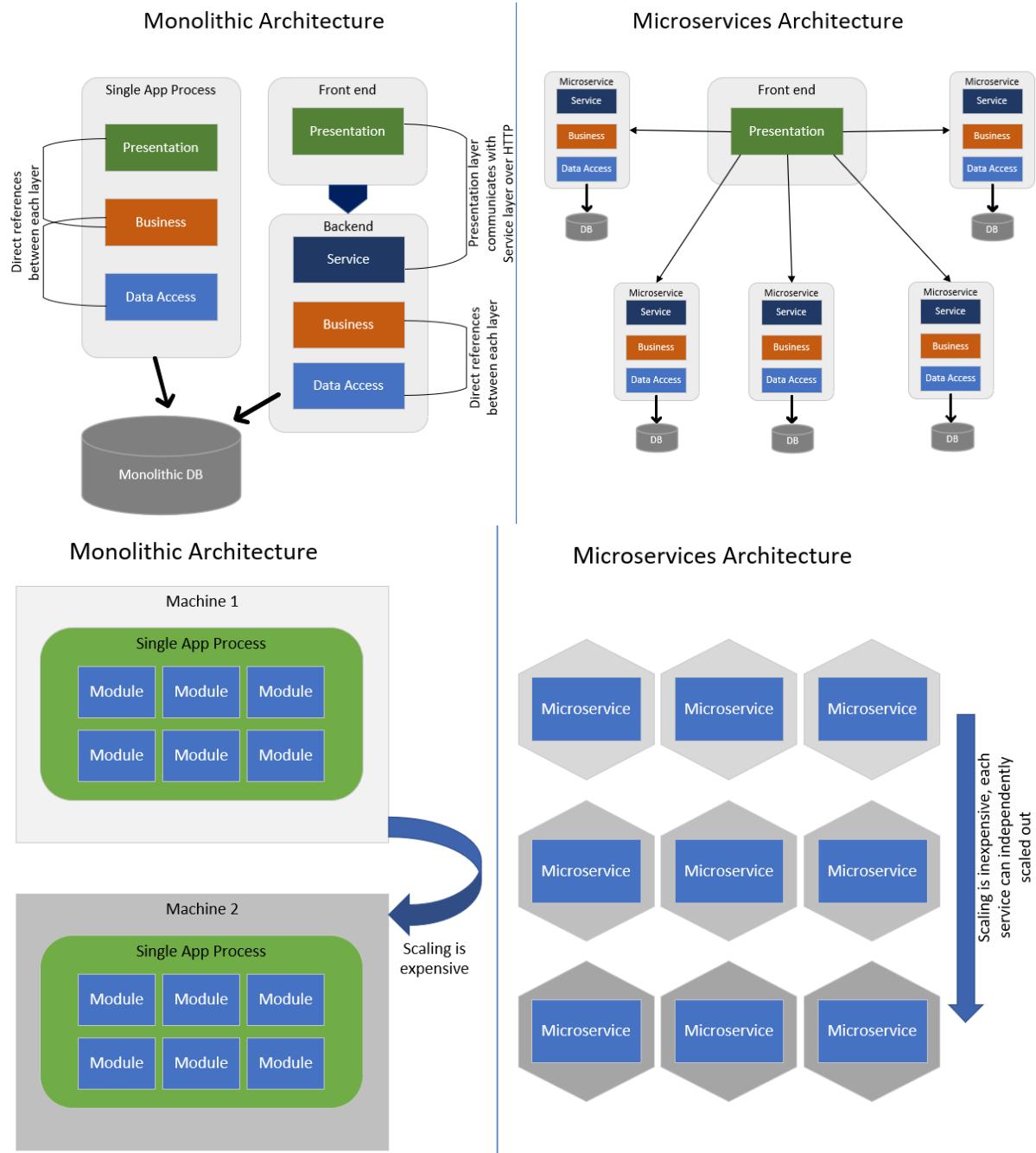
Other Features

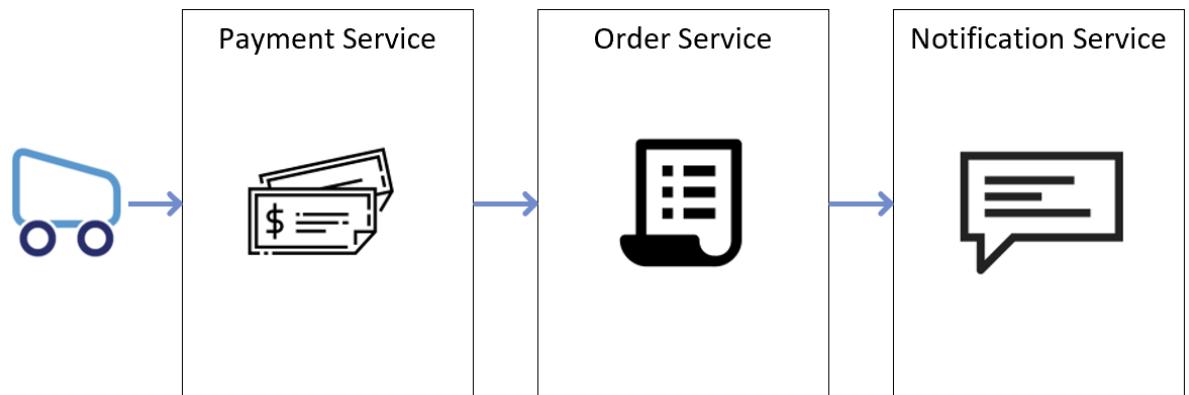
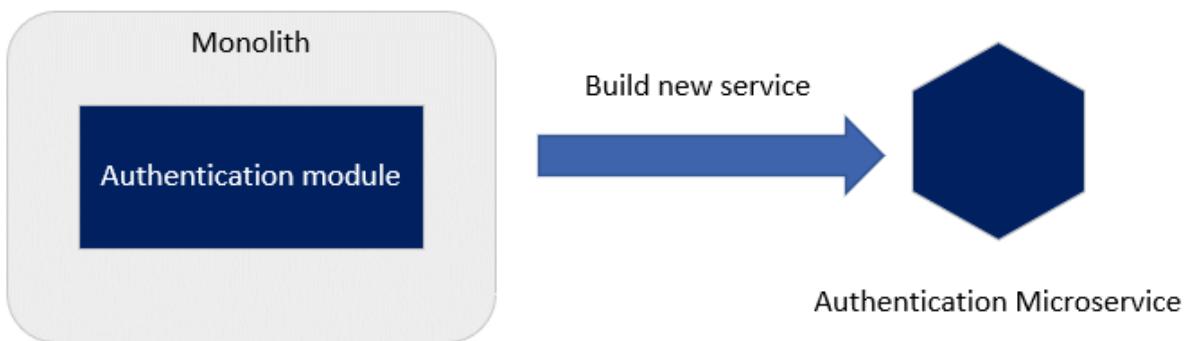
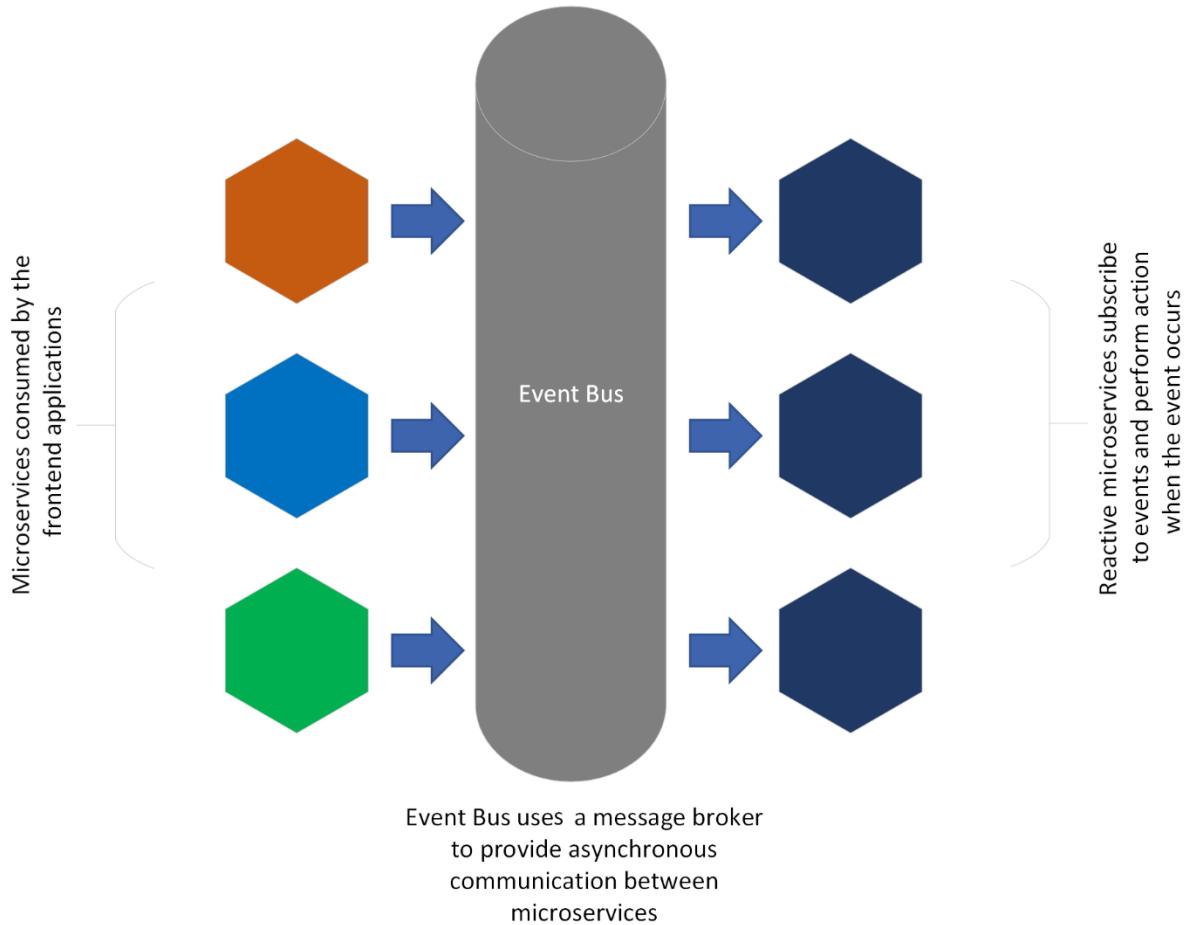
Ops Complexity	High	Low	Medium	
Deployment	Install via Helm and Operator	Helm	Helm	
Multi-cluster	Yes	No	Yes	
Testing	Yes	Limited	No	

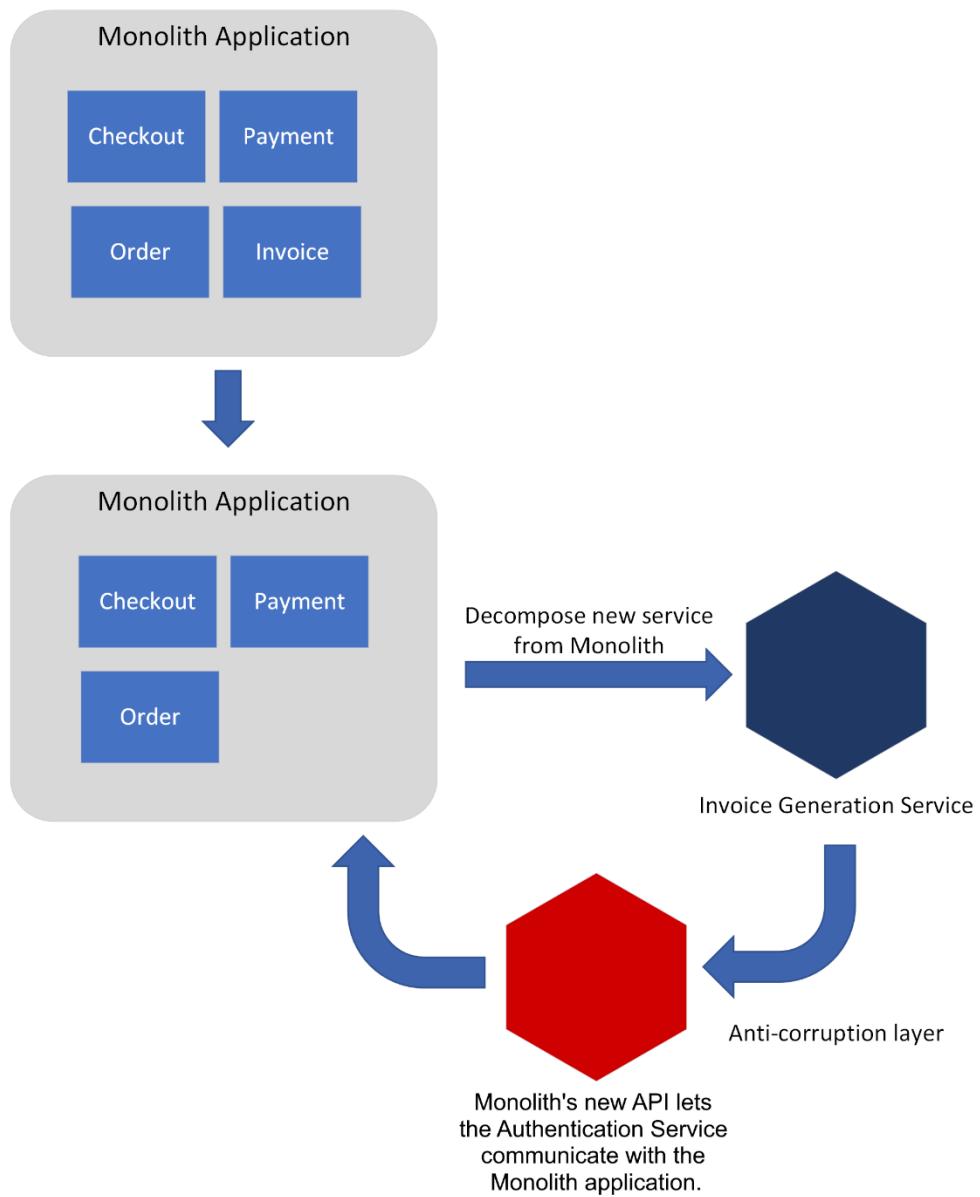




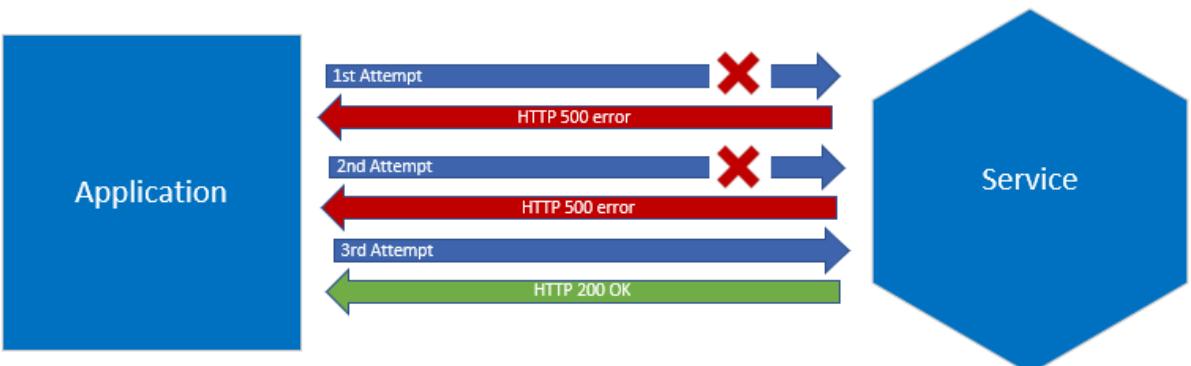
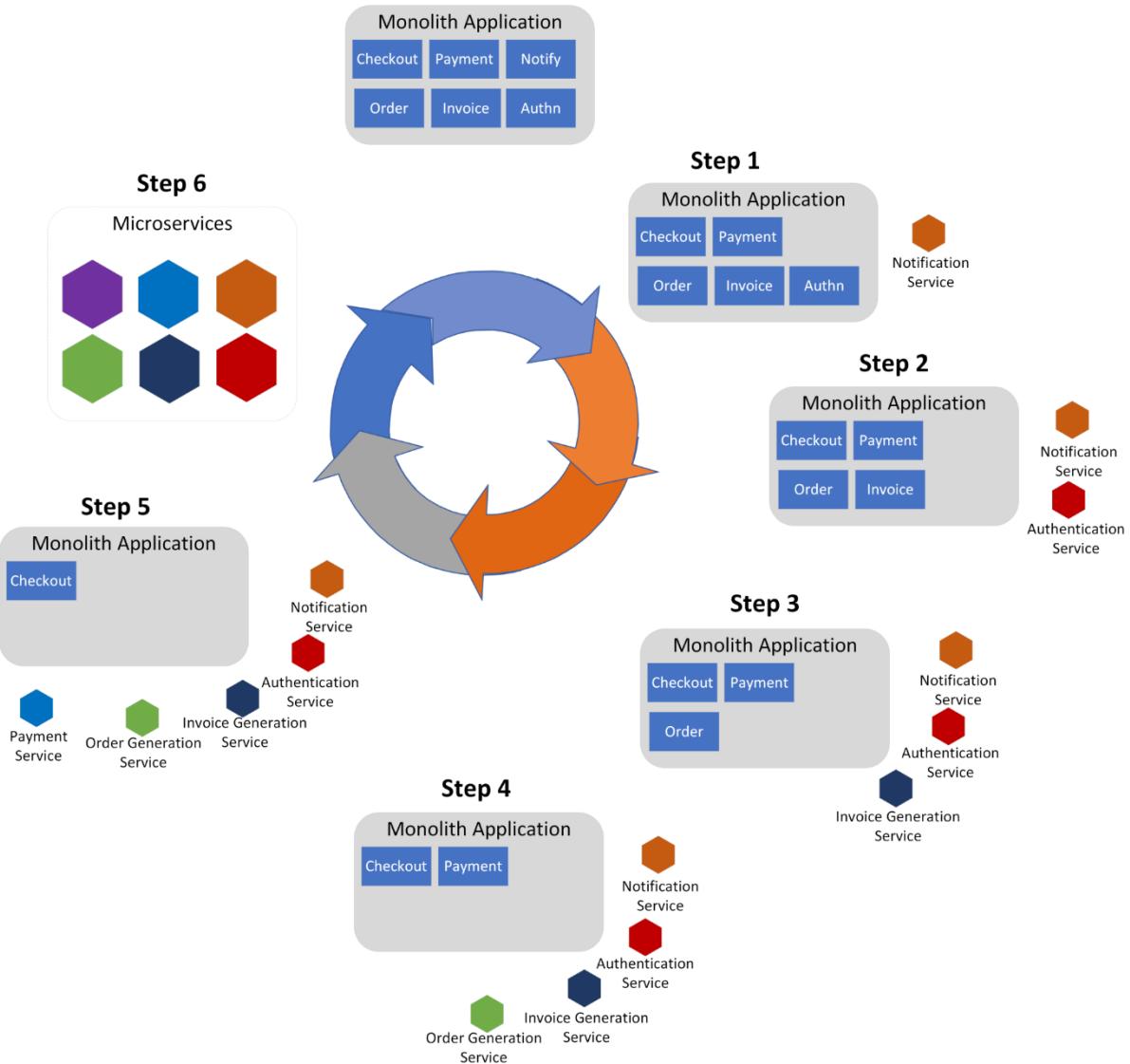
Chapter 4: Keeping Replatforming Brownfield Applications Trivial

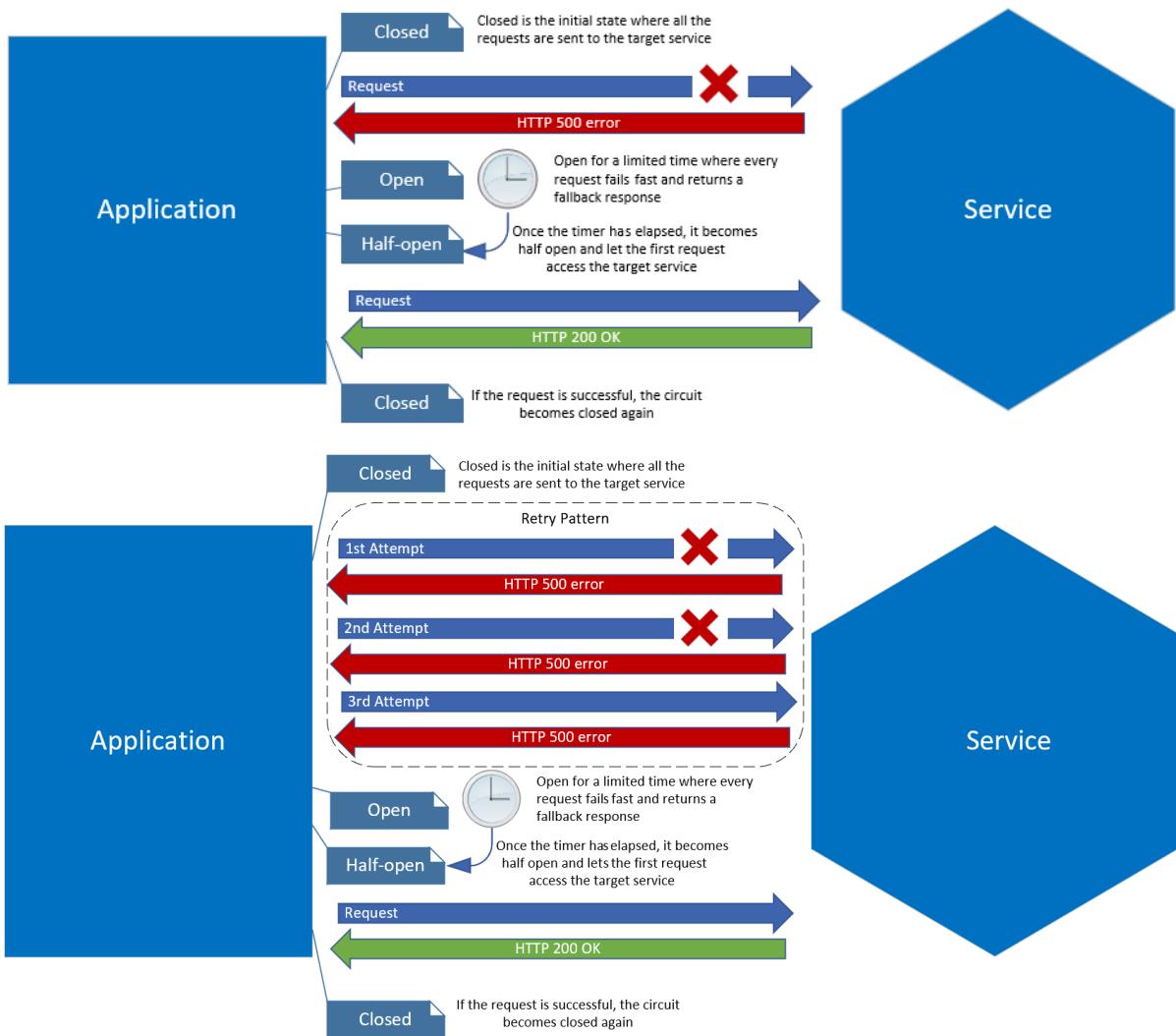




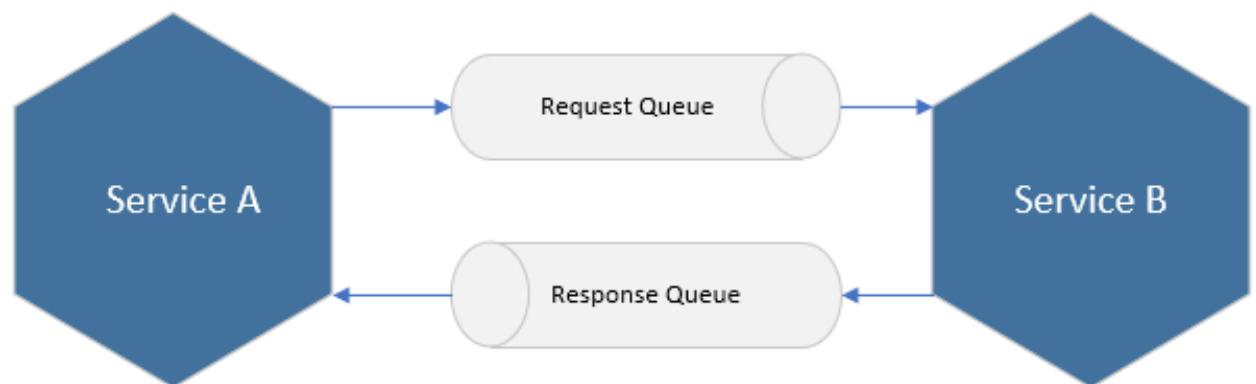


Steps of converting Monolith Application to Microservices

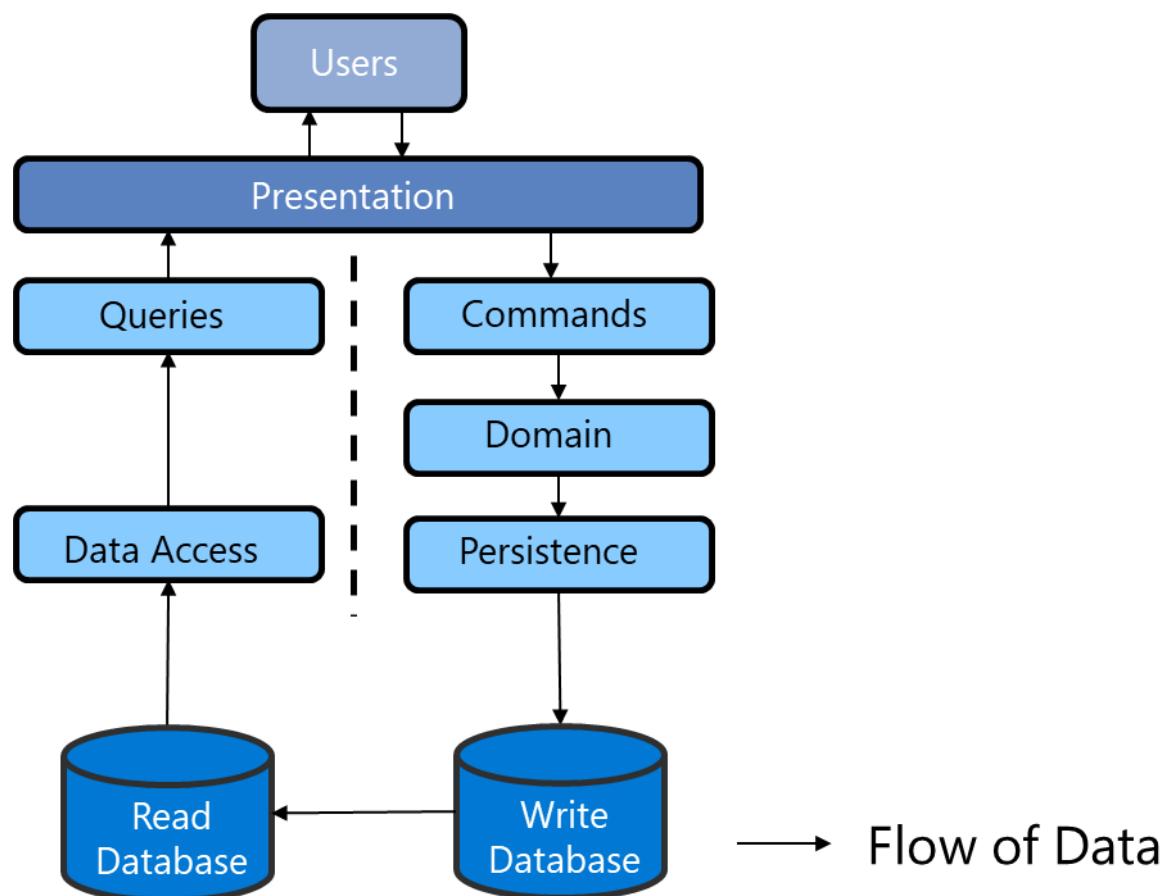
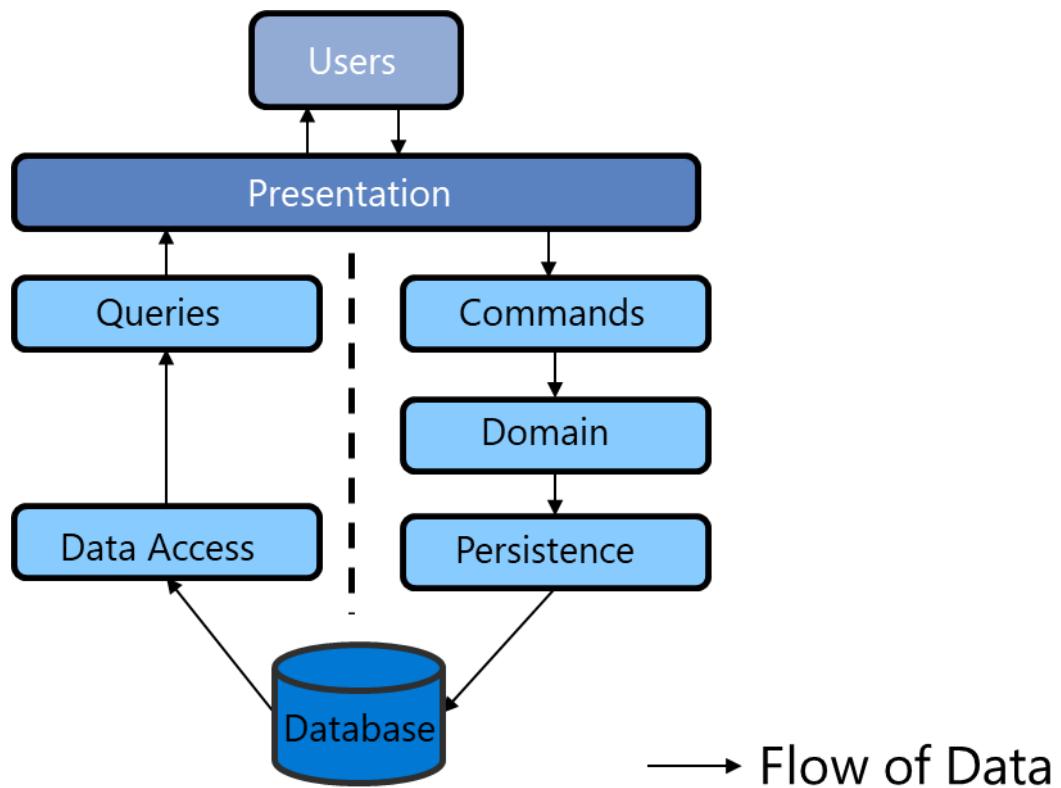


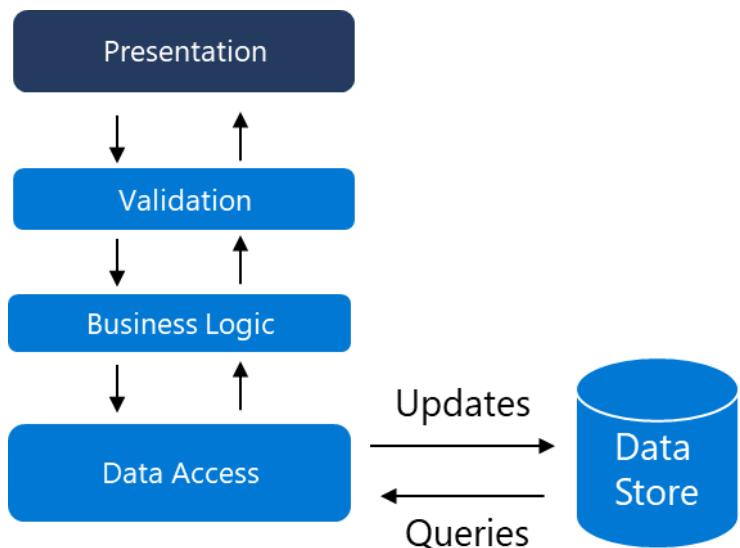
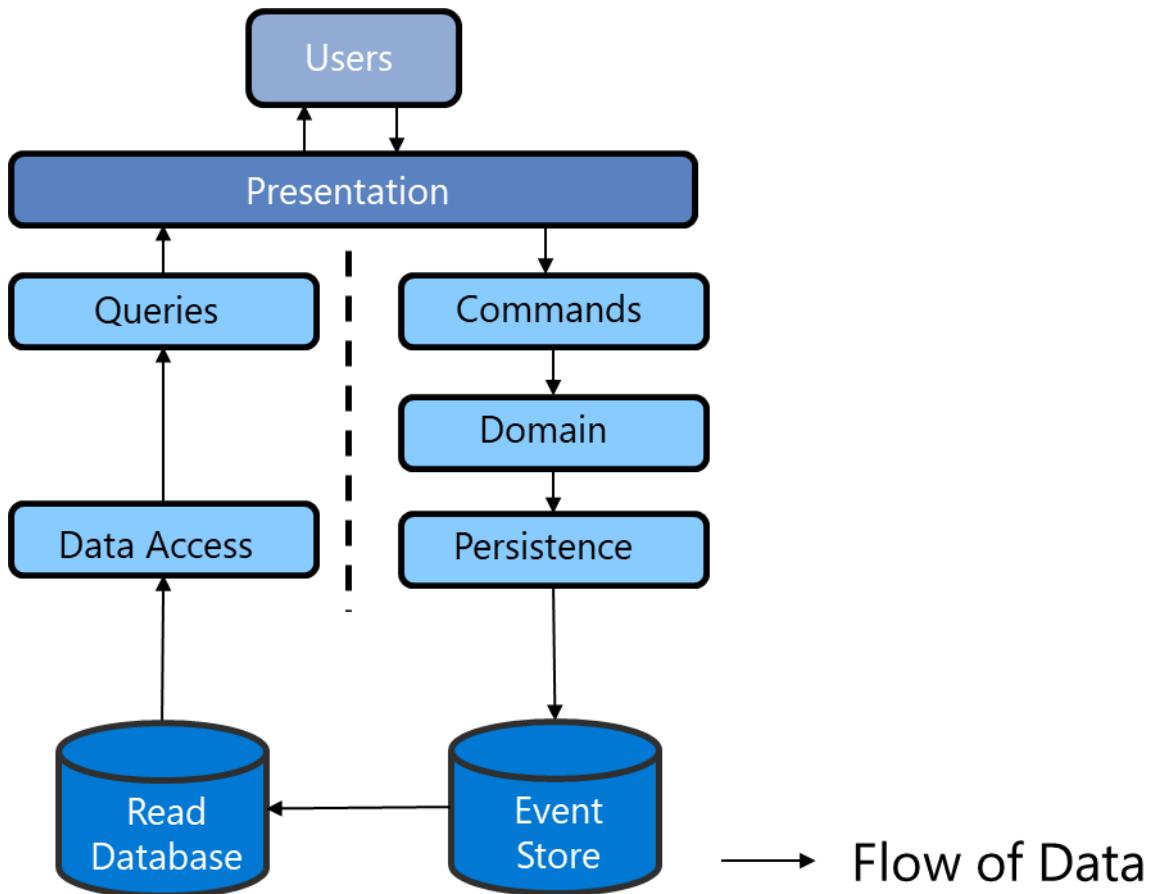


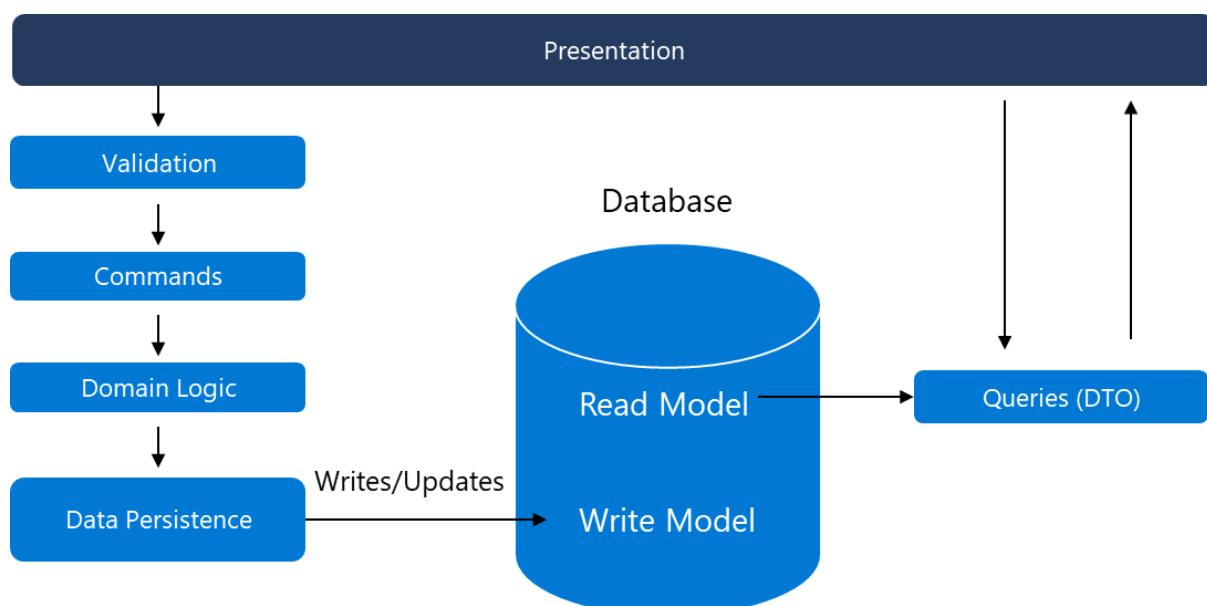
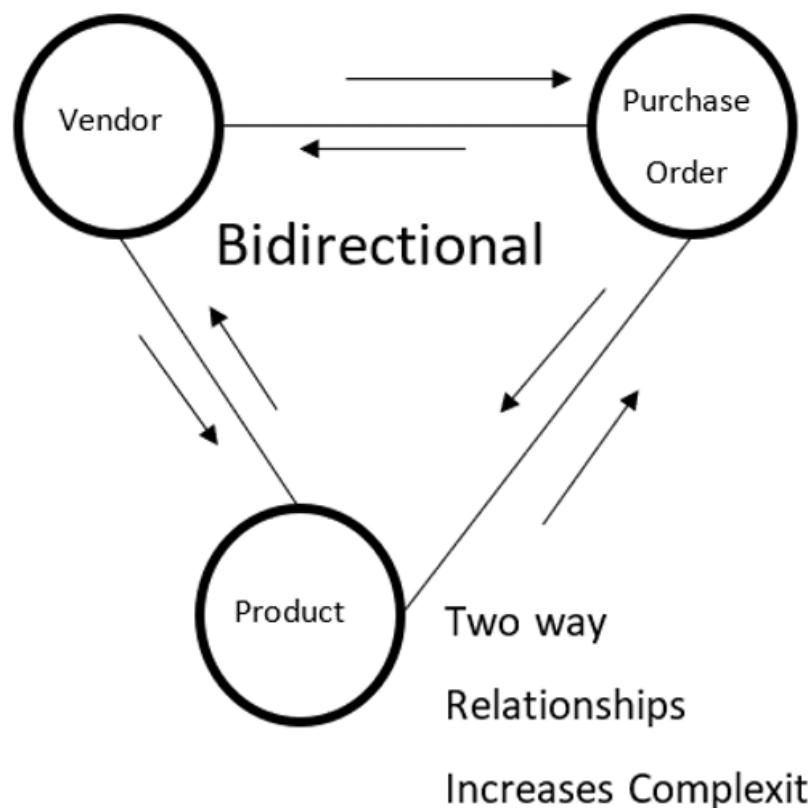
Library	Platform	More Information
Polly	.NET applications	https://github.com/App-vNext/Polly
Netflix Hystrix	Java applications	https://github.com/Netflix/Hystrix

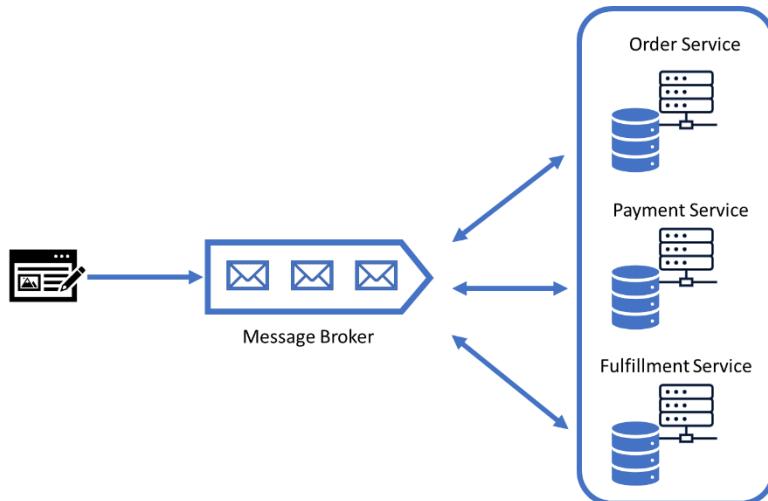
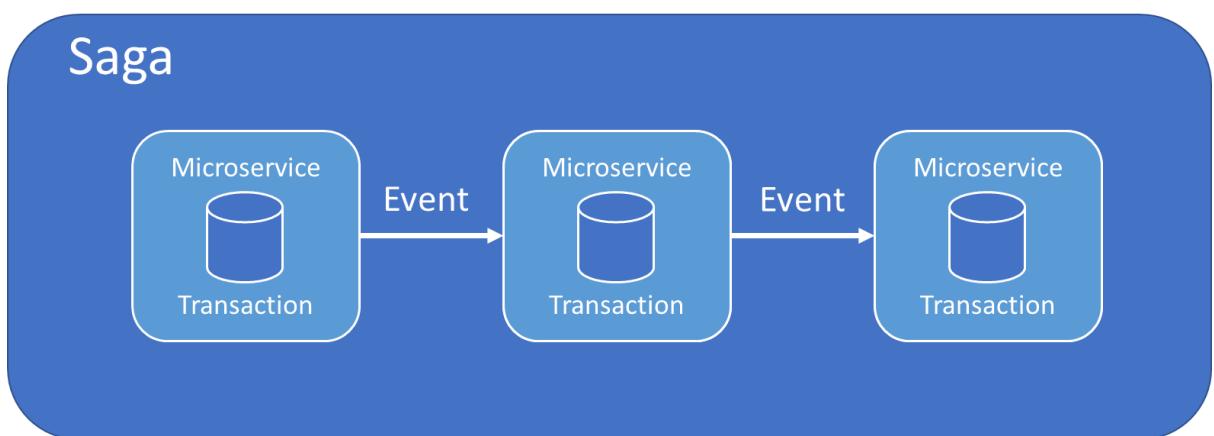
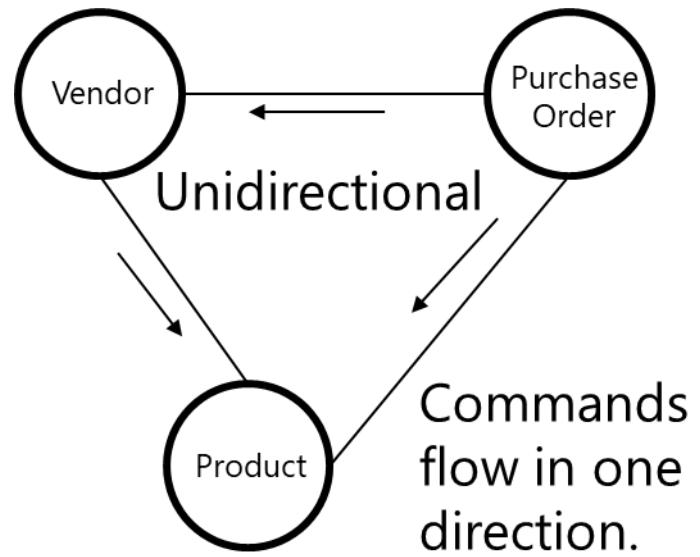


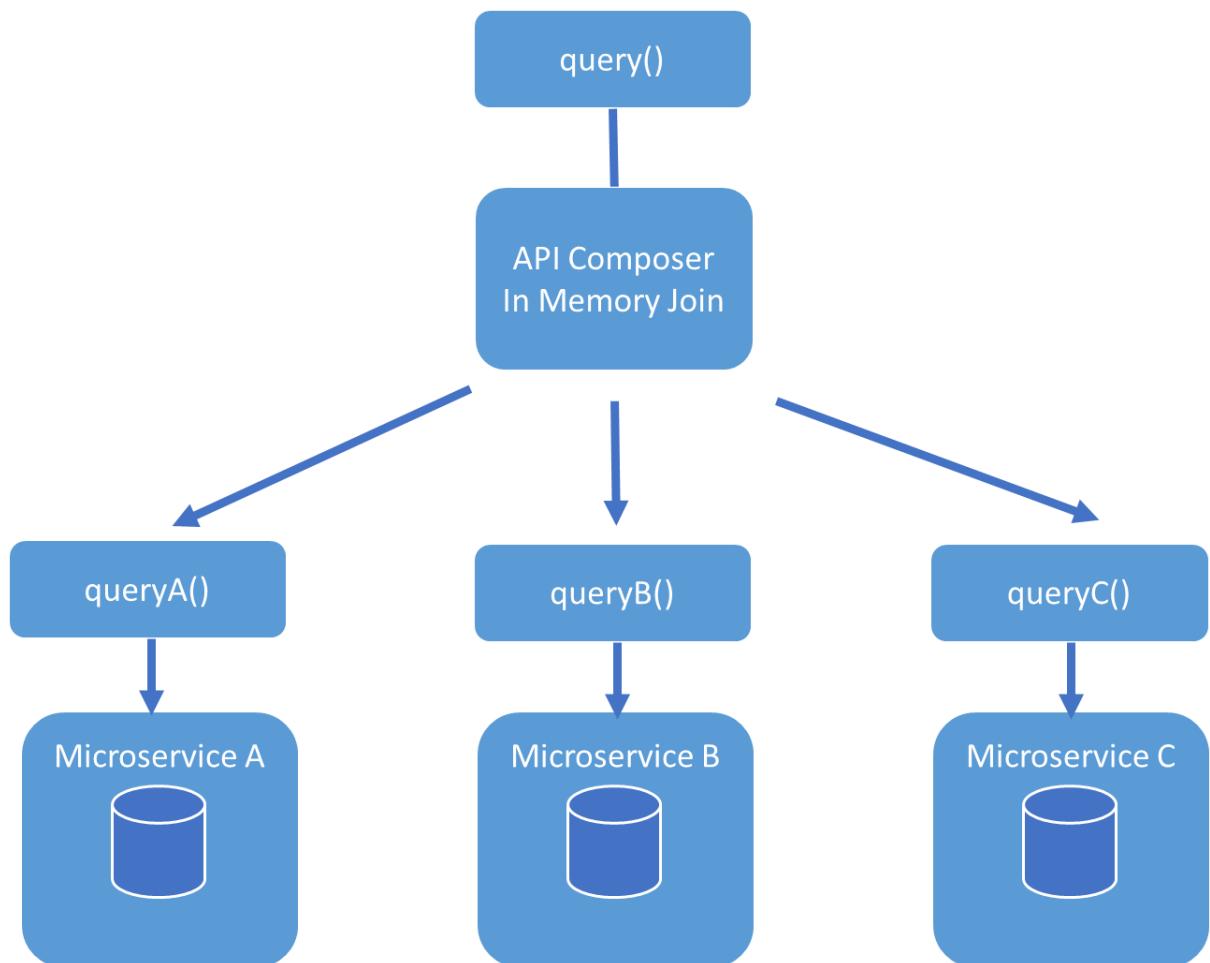
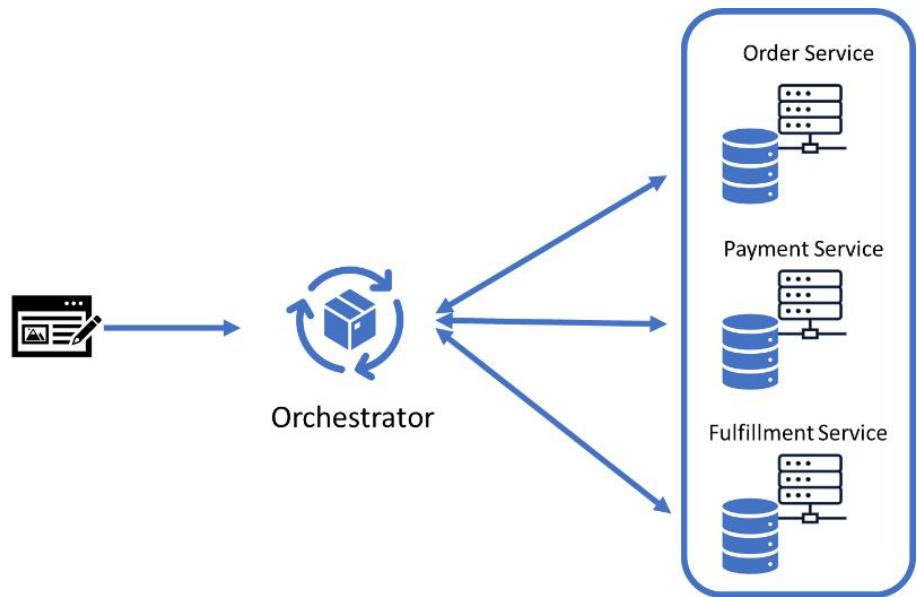
Chapter 5: Data Design Pitfalls



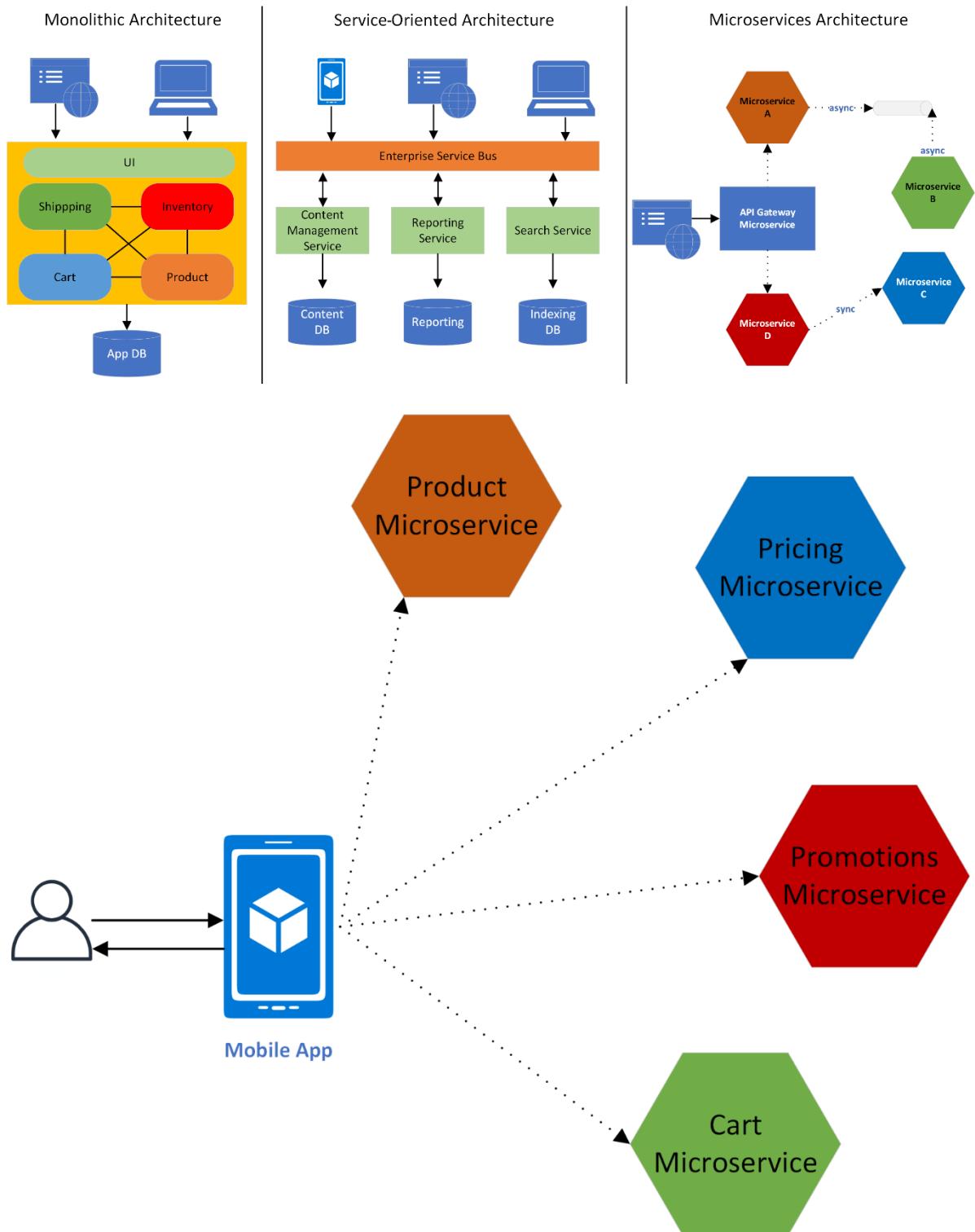


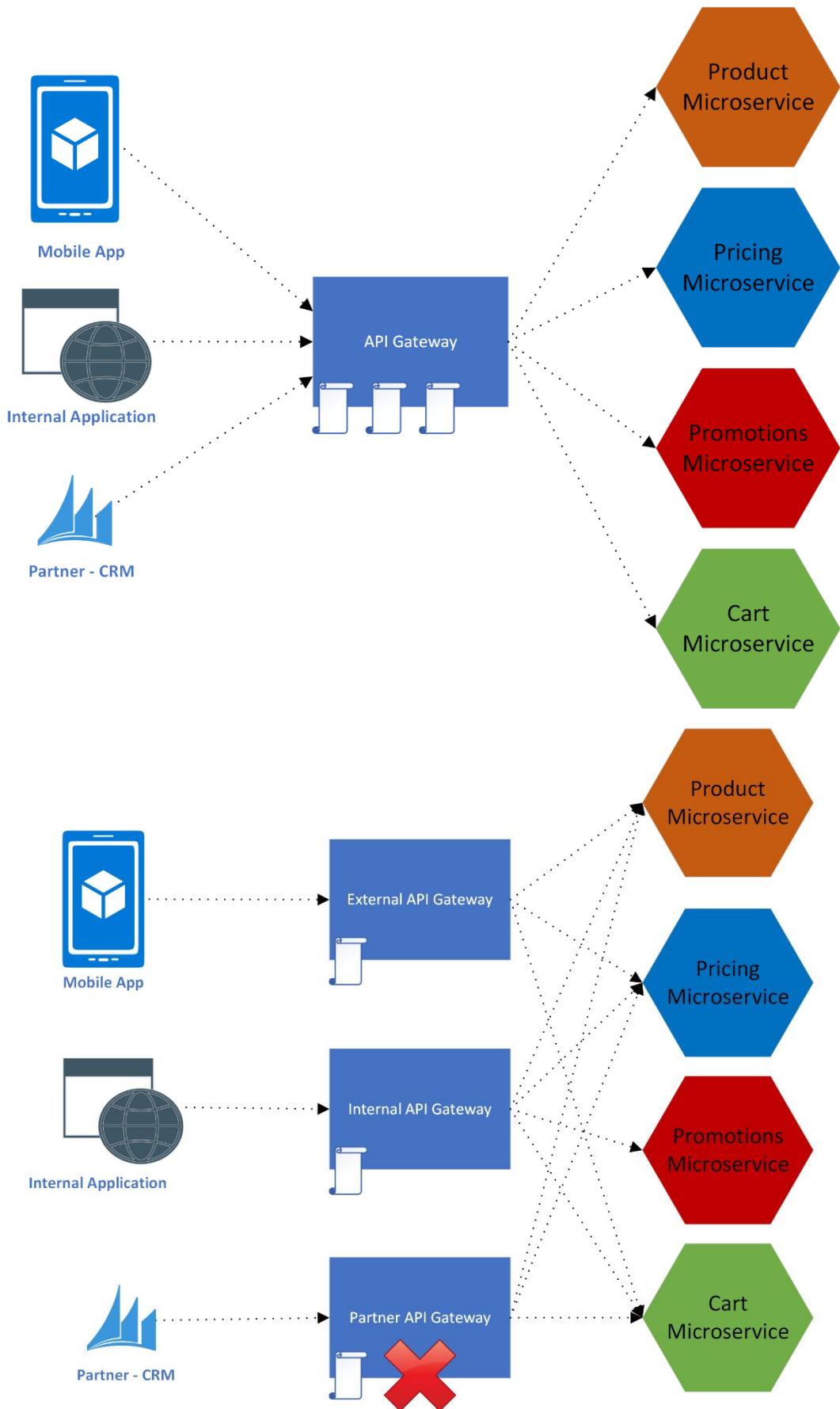


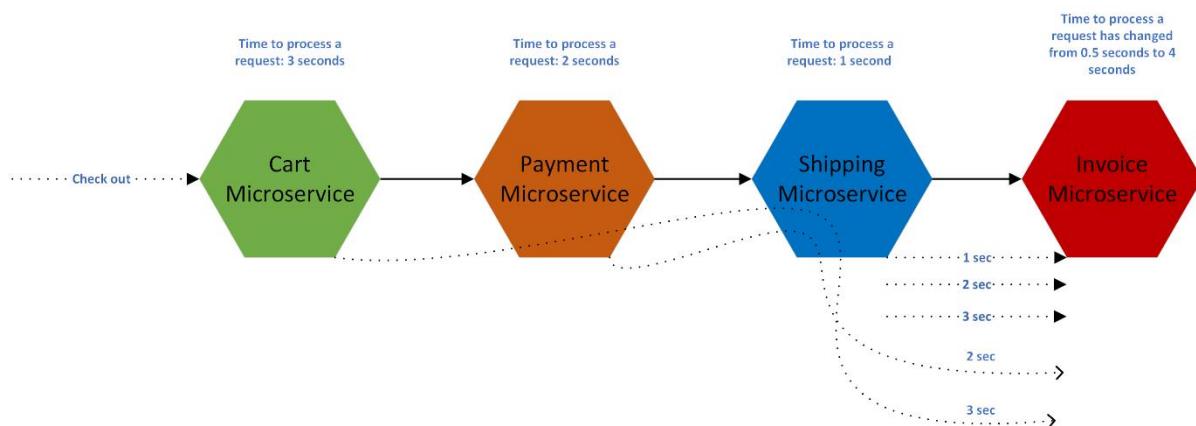
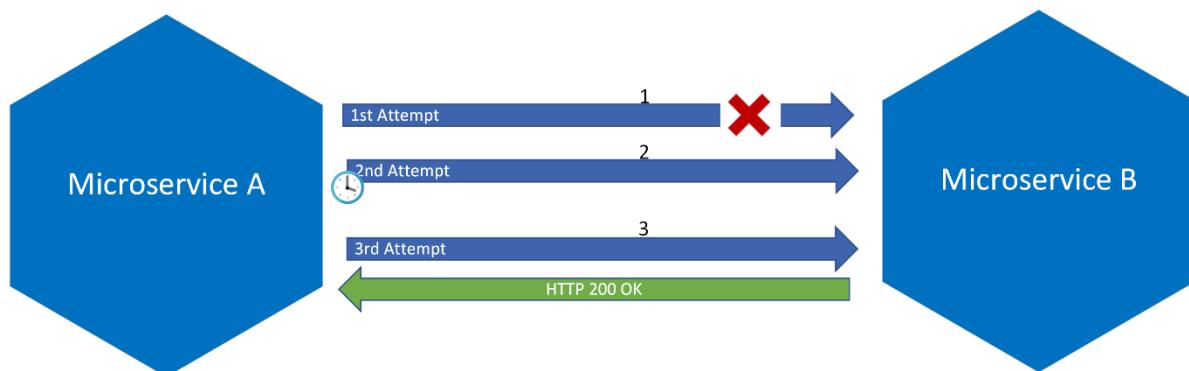
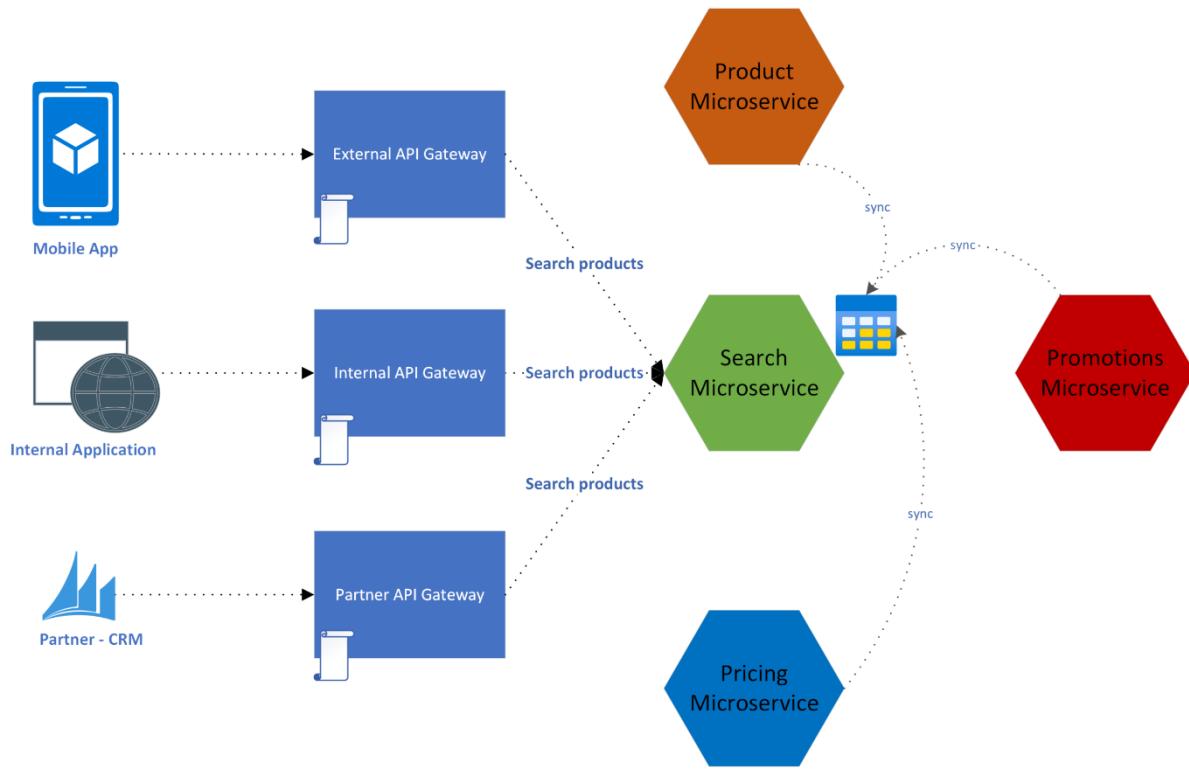


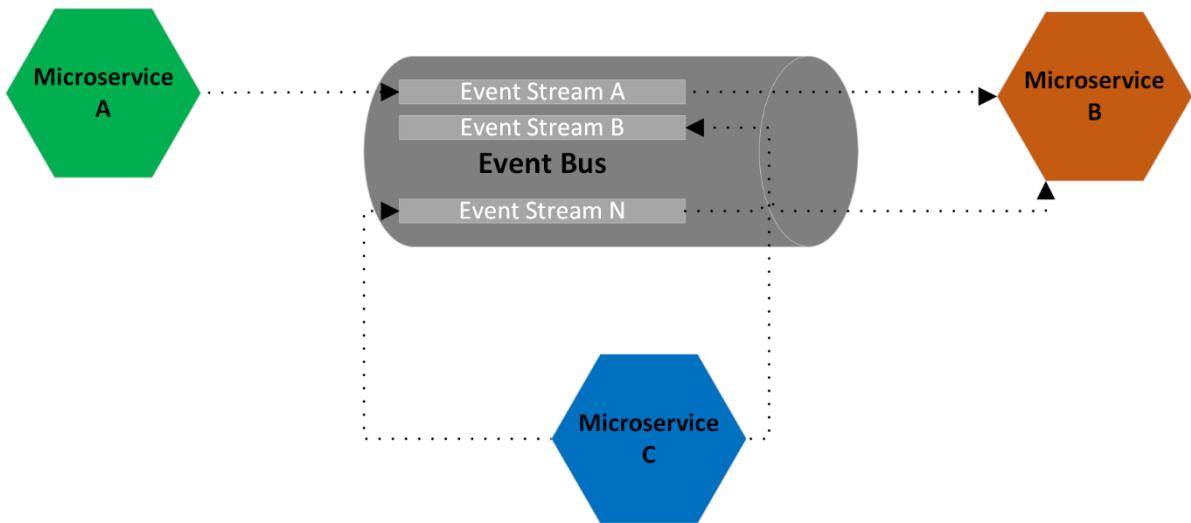


Chapter 6: Communication Pitfalls and Prevention



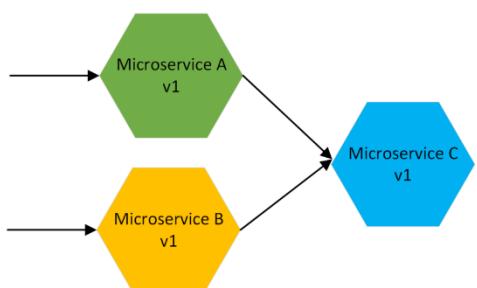






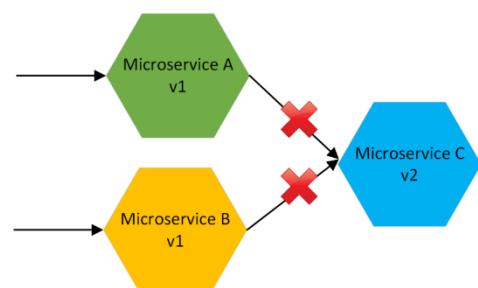
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Independent deployment



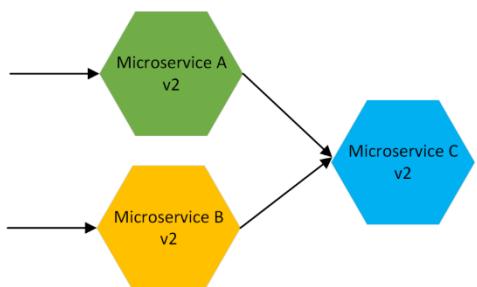
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Breaking changes

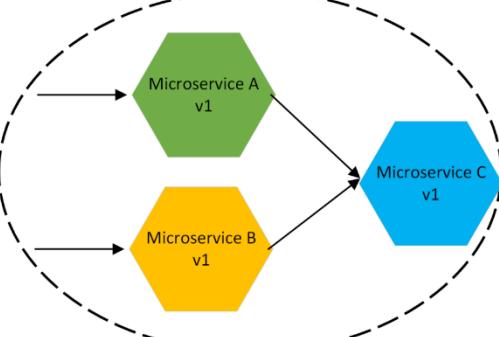


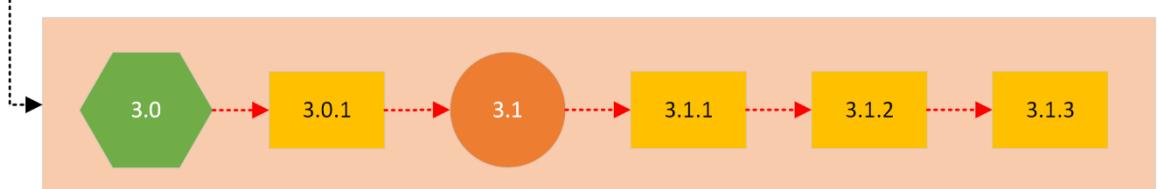
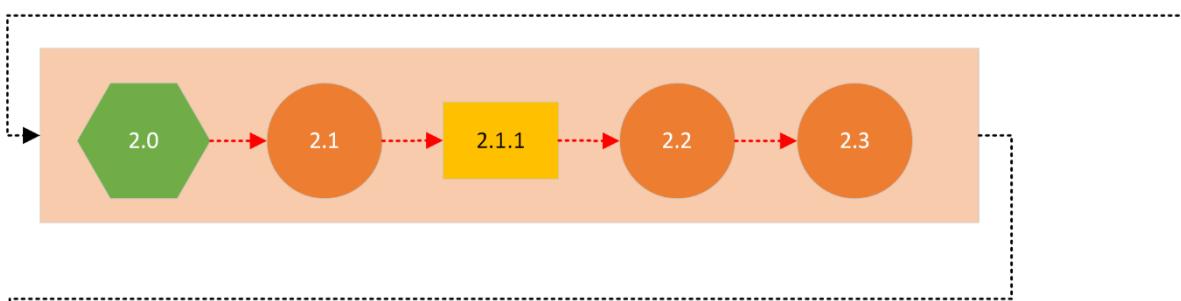
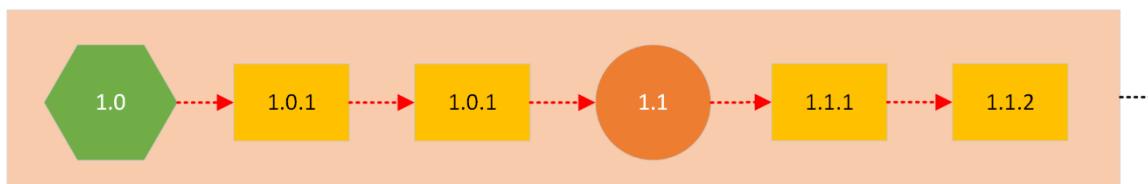
3

Deploying new client versions



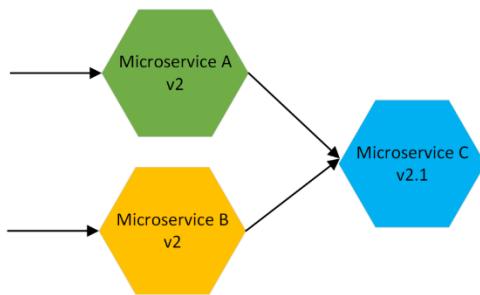
Lock-step deployment



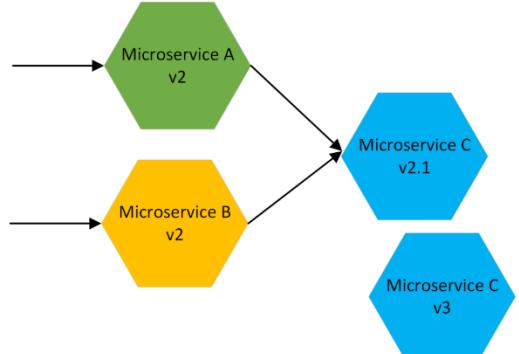


1

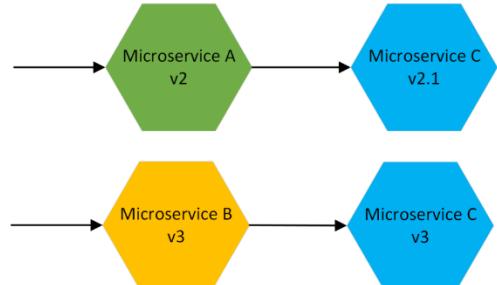
Introducing Semantic Versioning



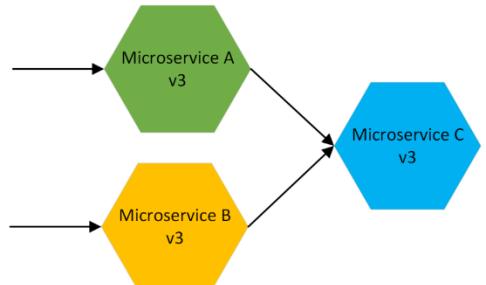
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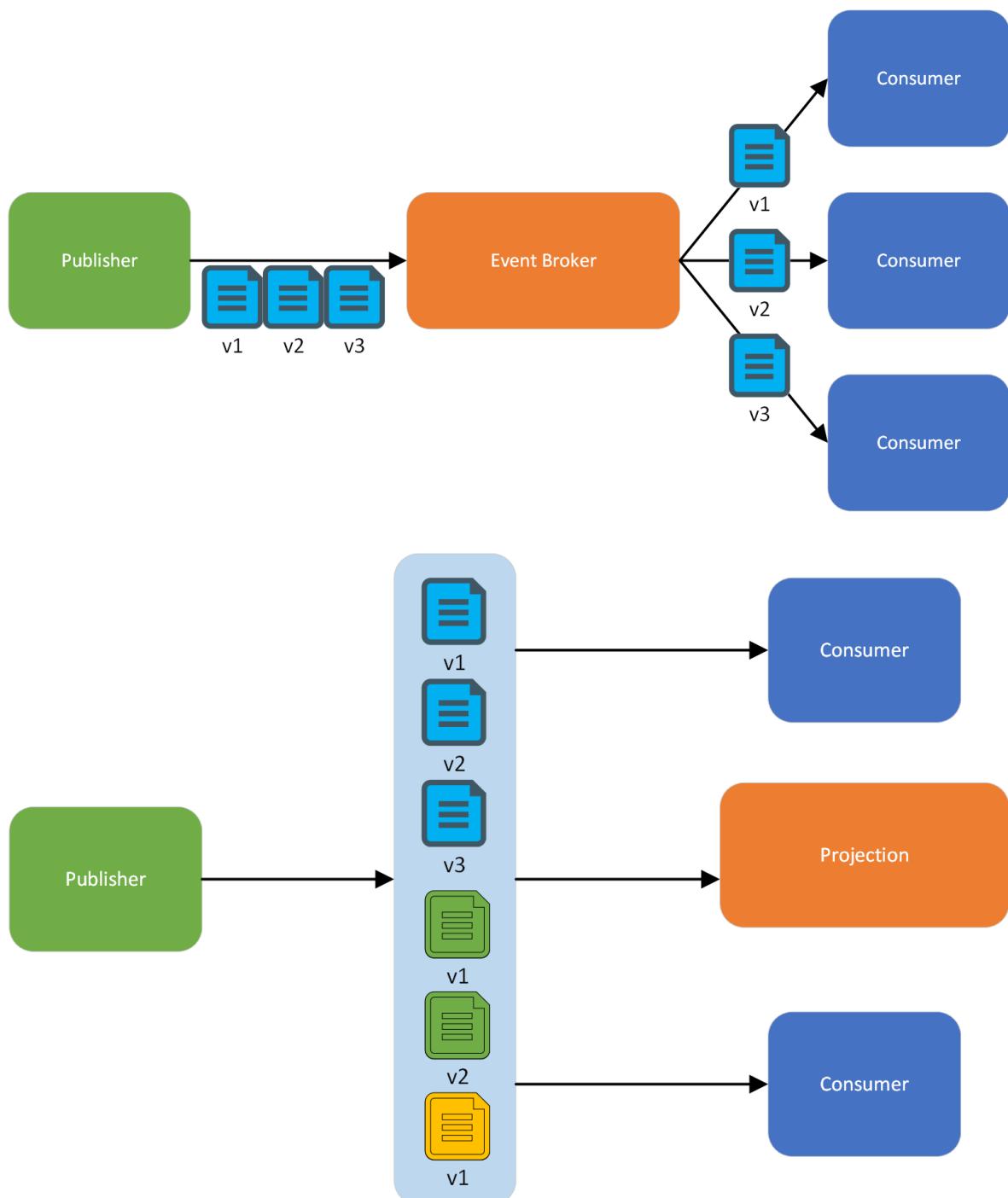
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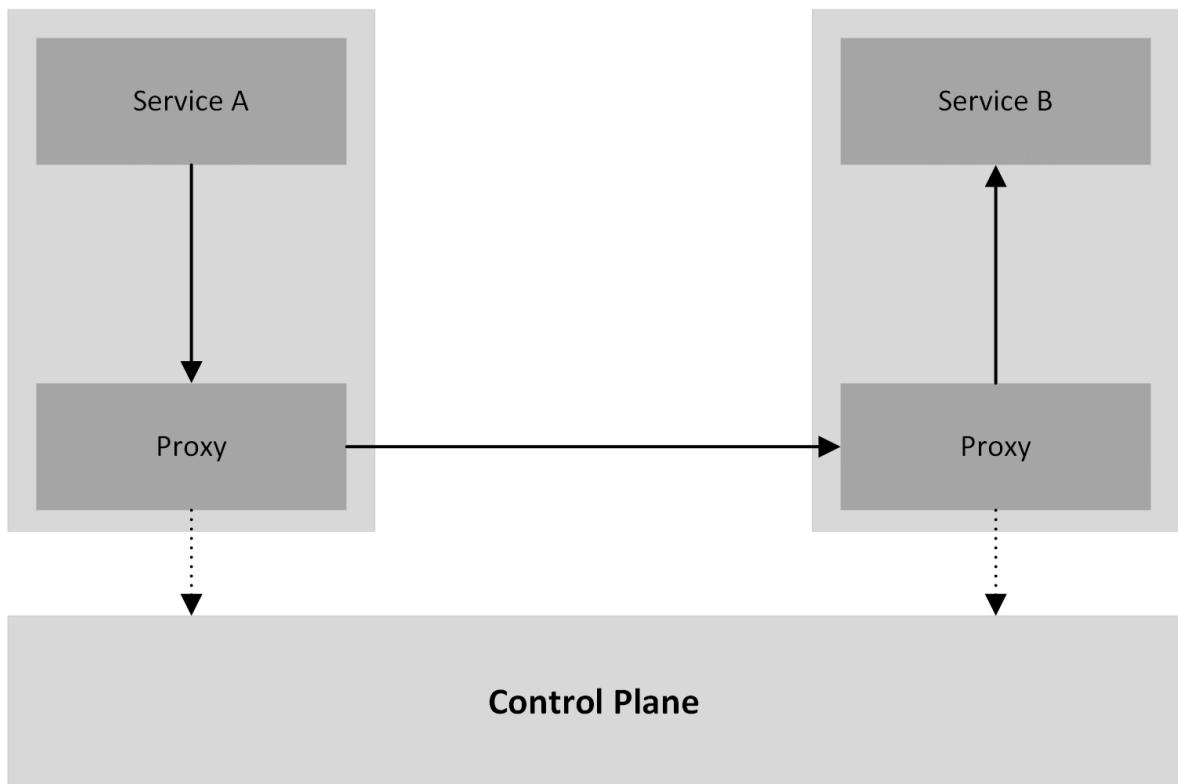


4



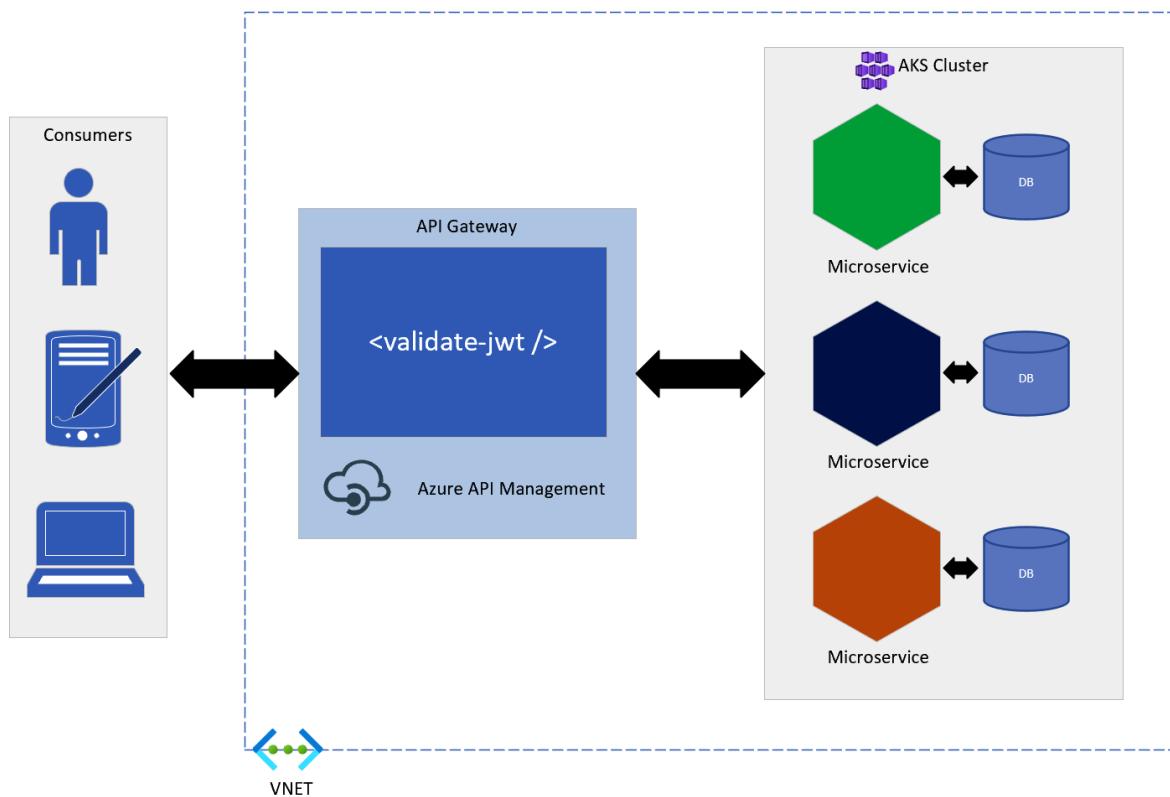
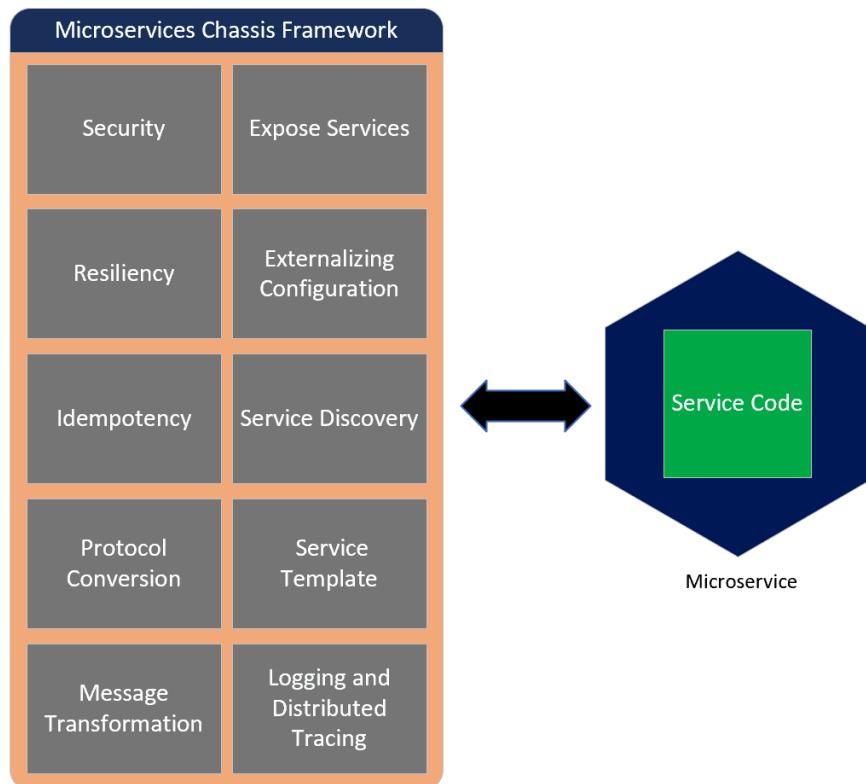
<u>Service Address</u>	<u>Package Name</u>		<u>Service Name</u>
ecommerce.v1.notification	ecommerce	v1	Notification
ecommerce.v1.notification	ecommerce	v1	Notification



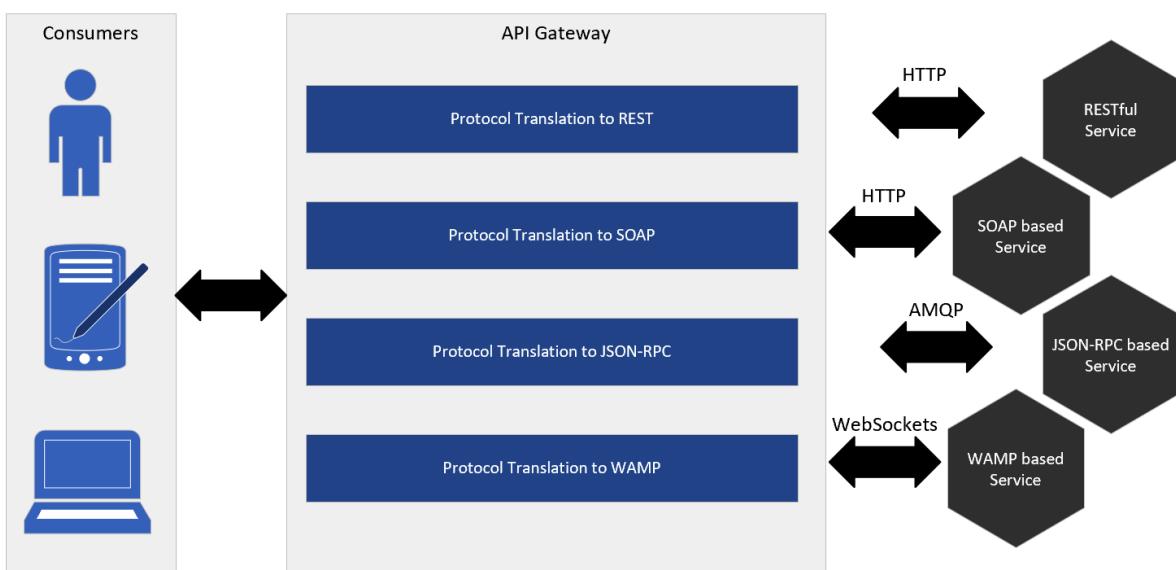
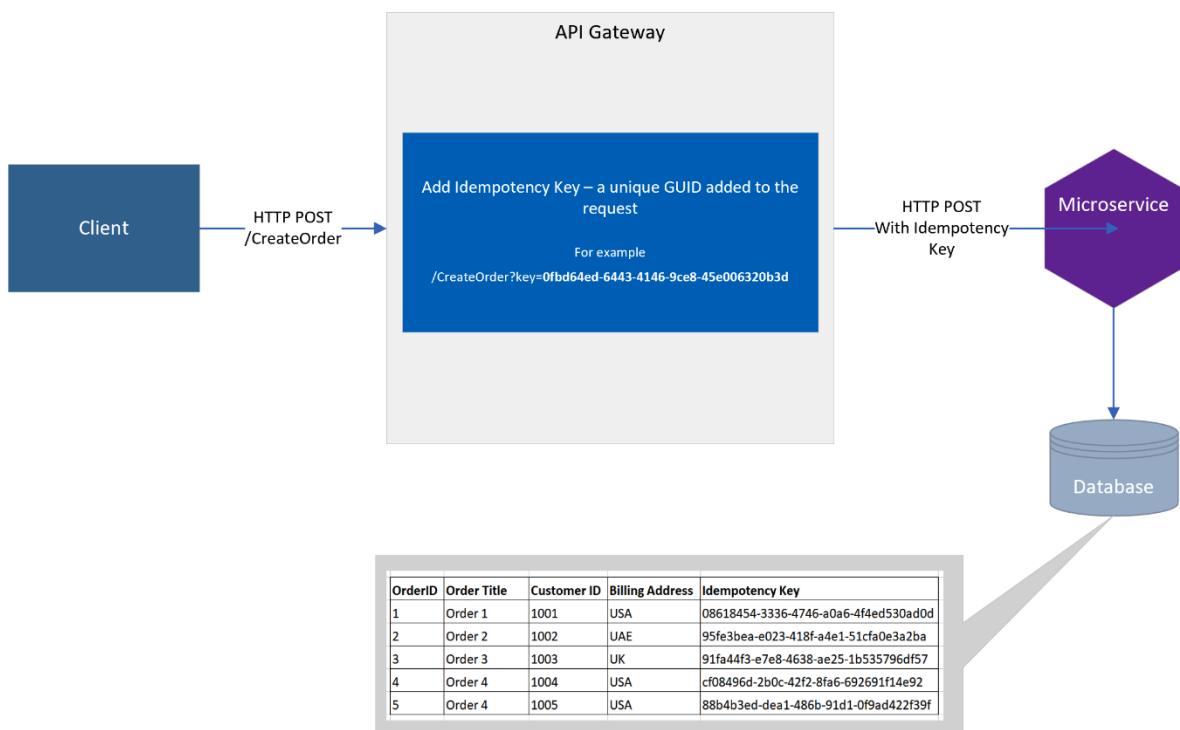


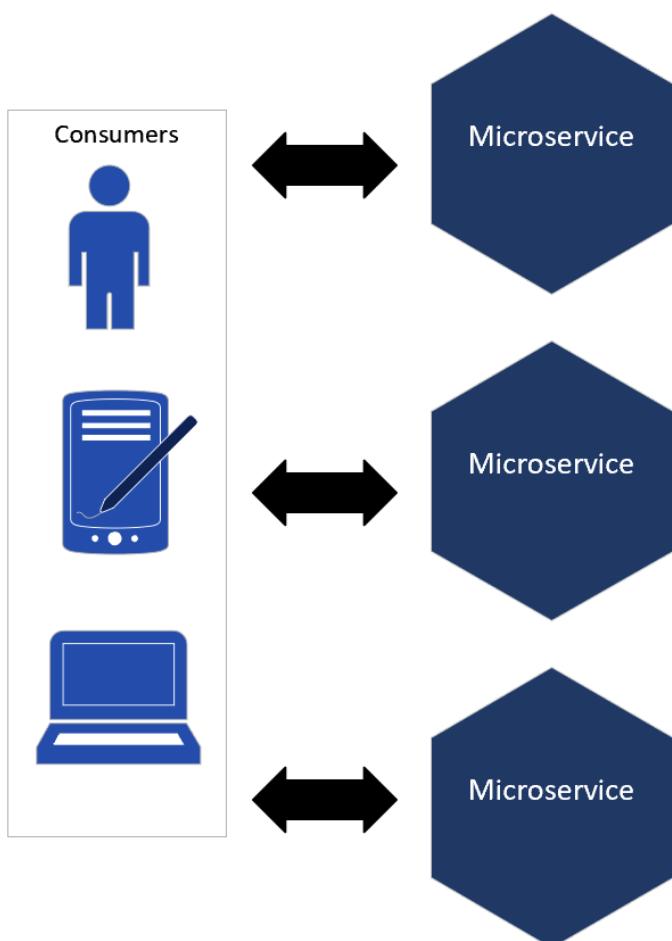
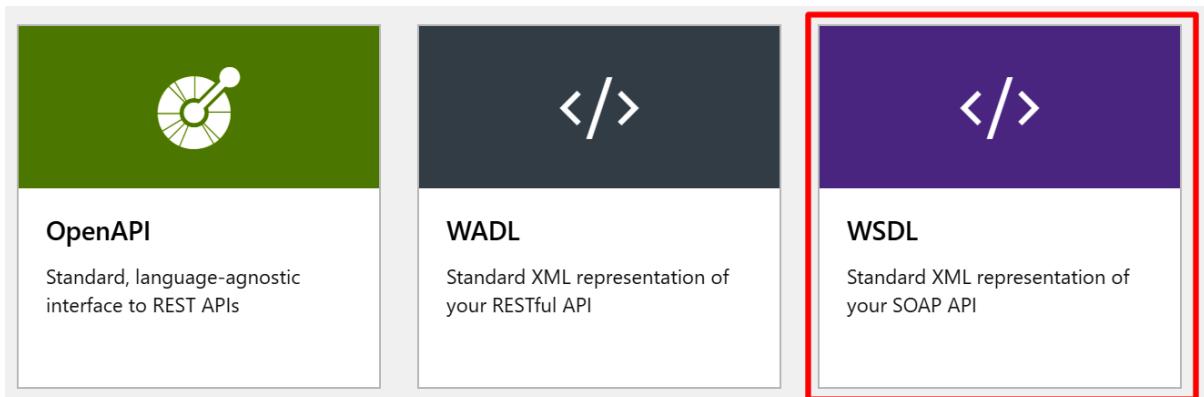
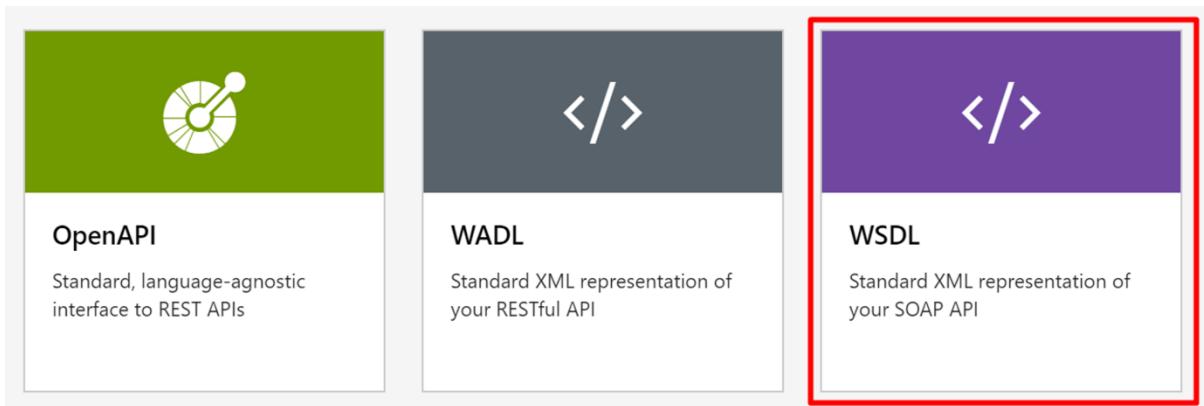
Features	Dapr	Service Mesh
Service-to-service invocation	Yes	No
State management	Yes	No
Publish/subscribe	Yes	No
Resource binding and triggers	Yes	No
Secrets	Yes	No
Actors	Yes	No
mTLS	Yes	Yes
Metrics	Yes	Yes
Resiliency	Yes	Yes
Distributed Tracing	Yes	Yes
Traffic routing	No	Yes
Traffic splitting	No	Yes

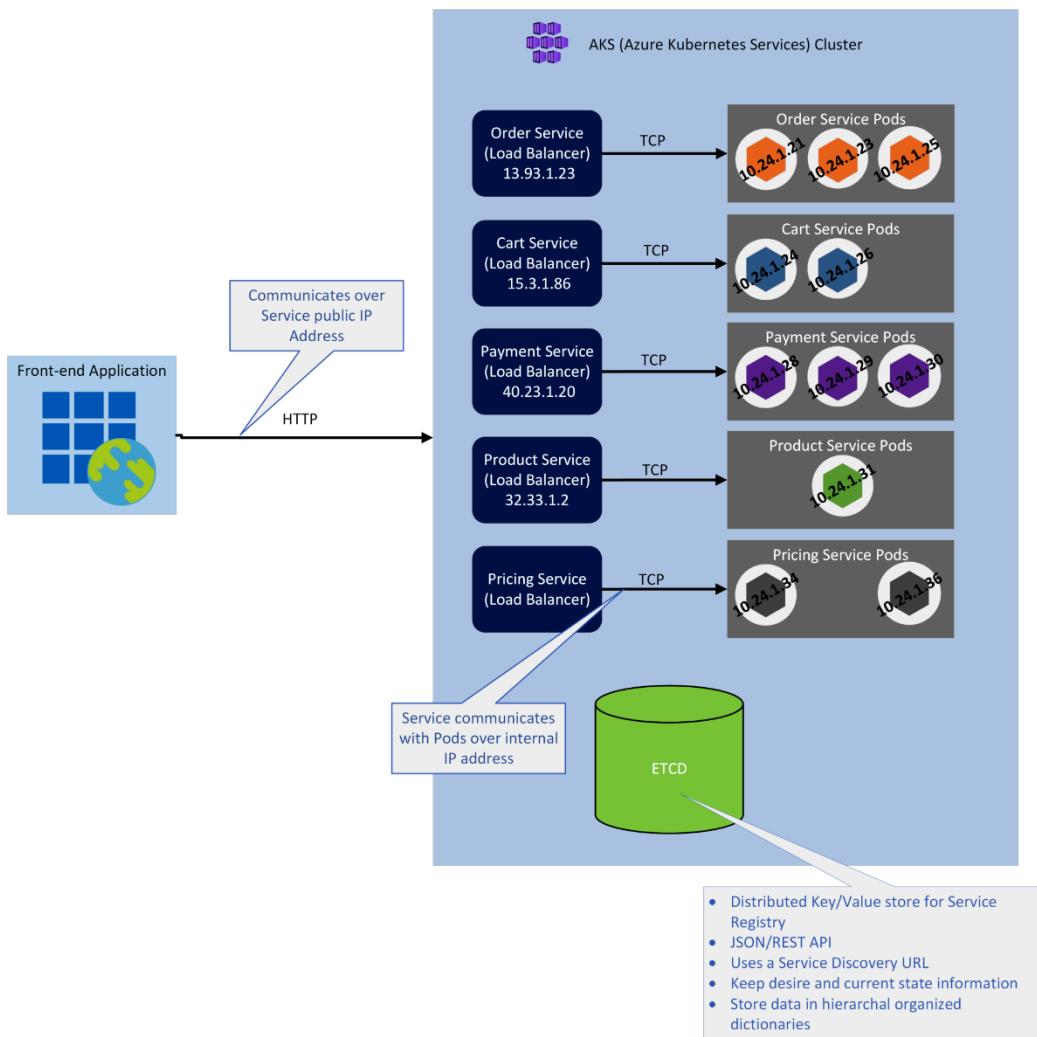
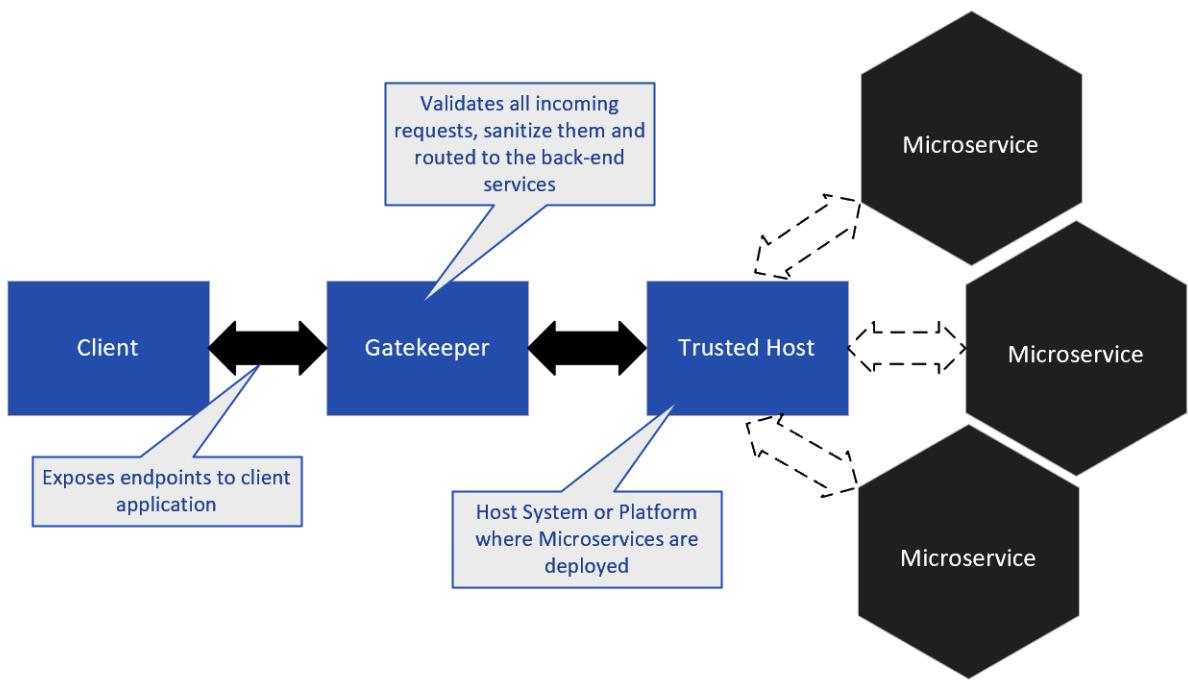
Chapter 7: Cross-Cutting Concerns

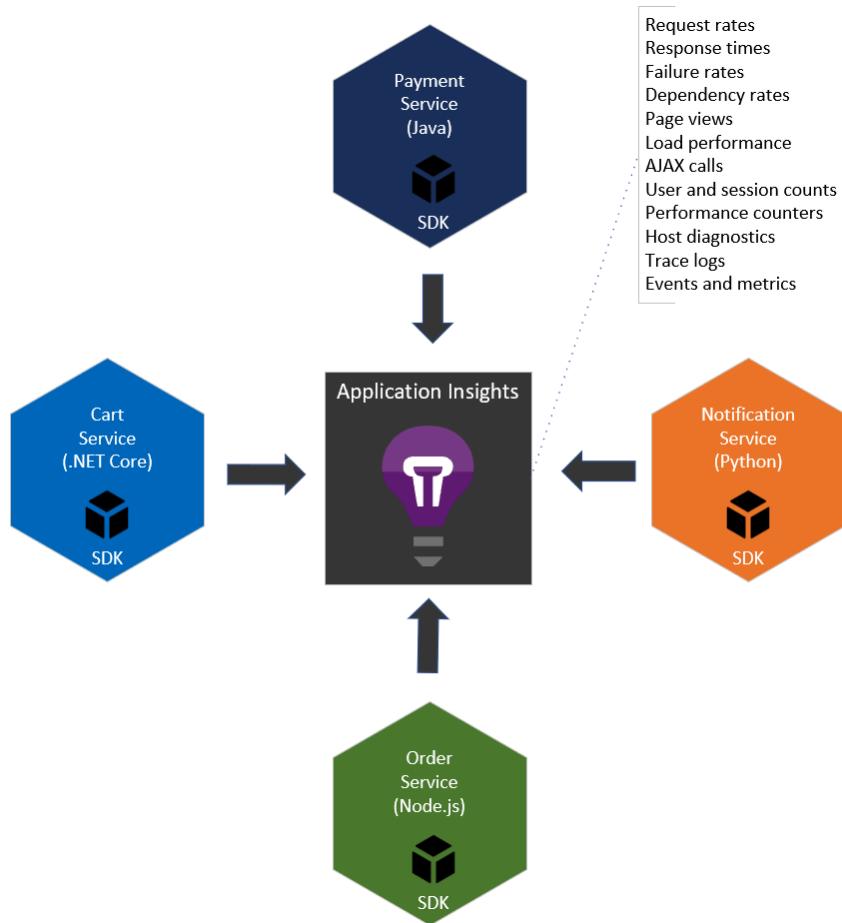
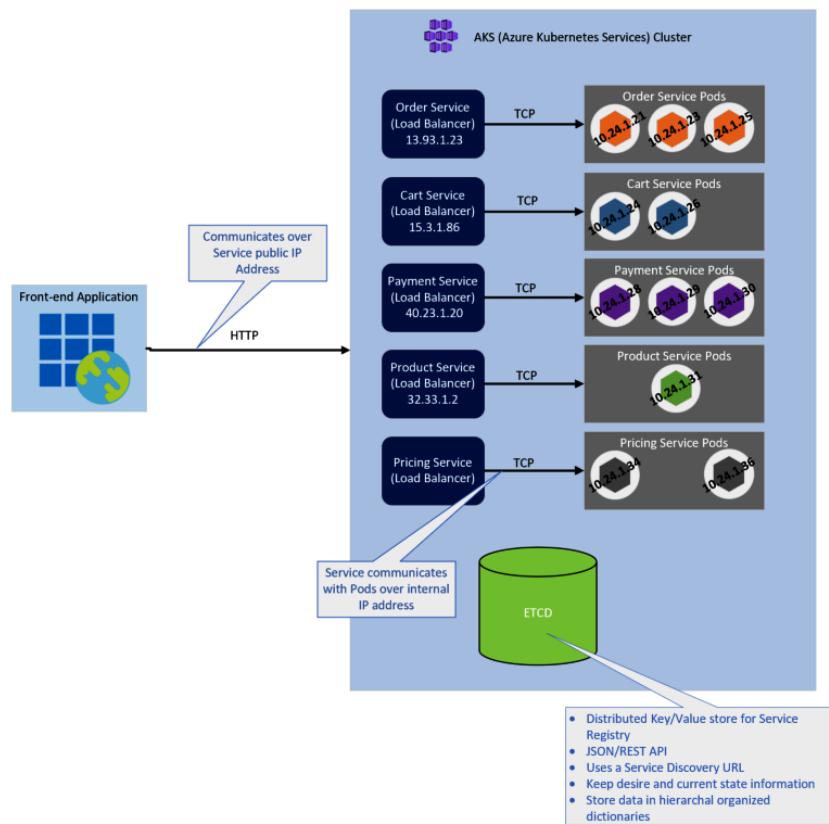


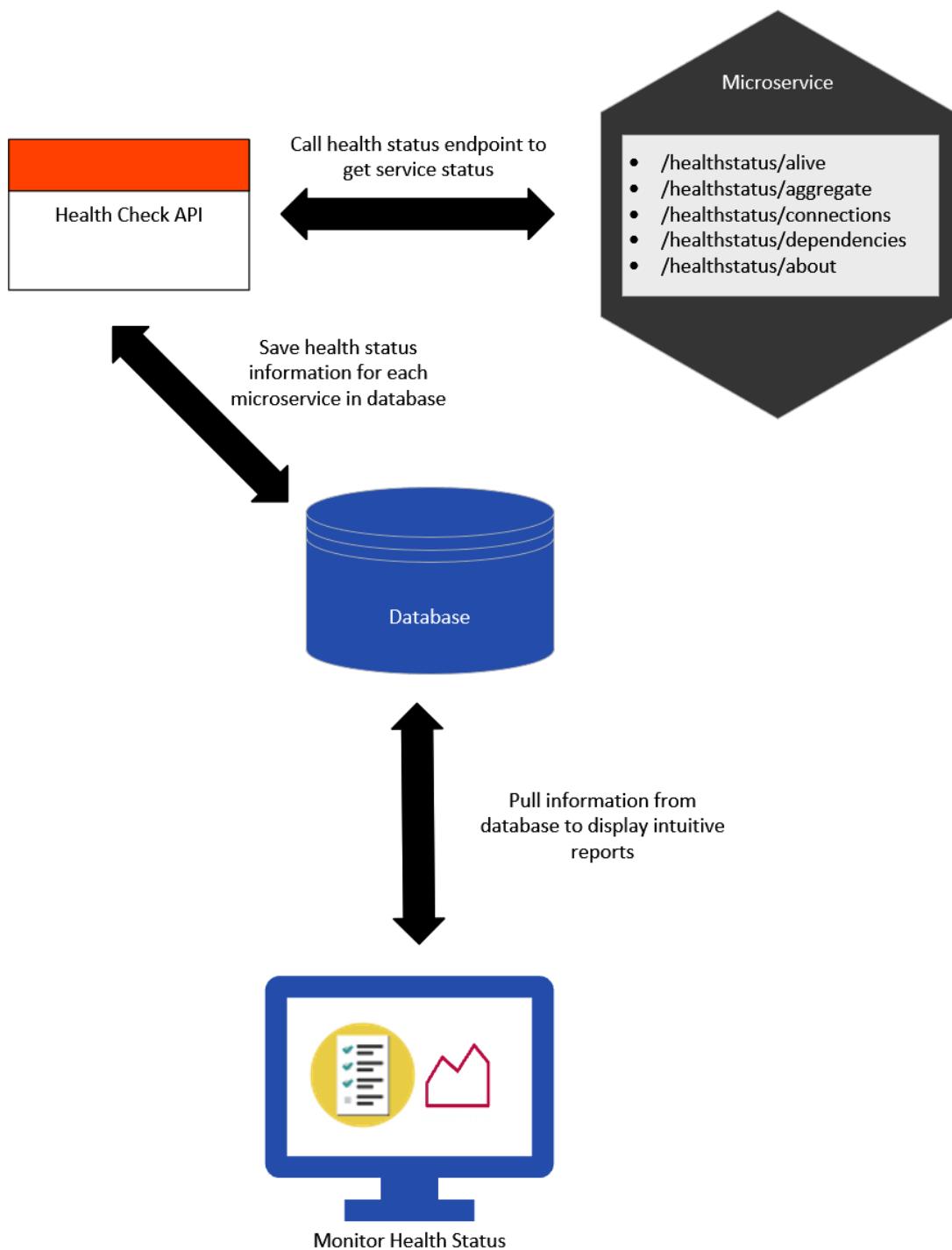
Operation	Idempotent	Safe
GET	Yes	Yes
POST	No	No
DELETE	Yes	No
PUT	Yes	No
PATCH	Yes	No
HEAD	Yes	Yes
OPTIONS	Yes	Yes
TRACE	Yes	Yes



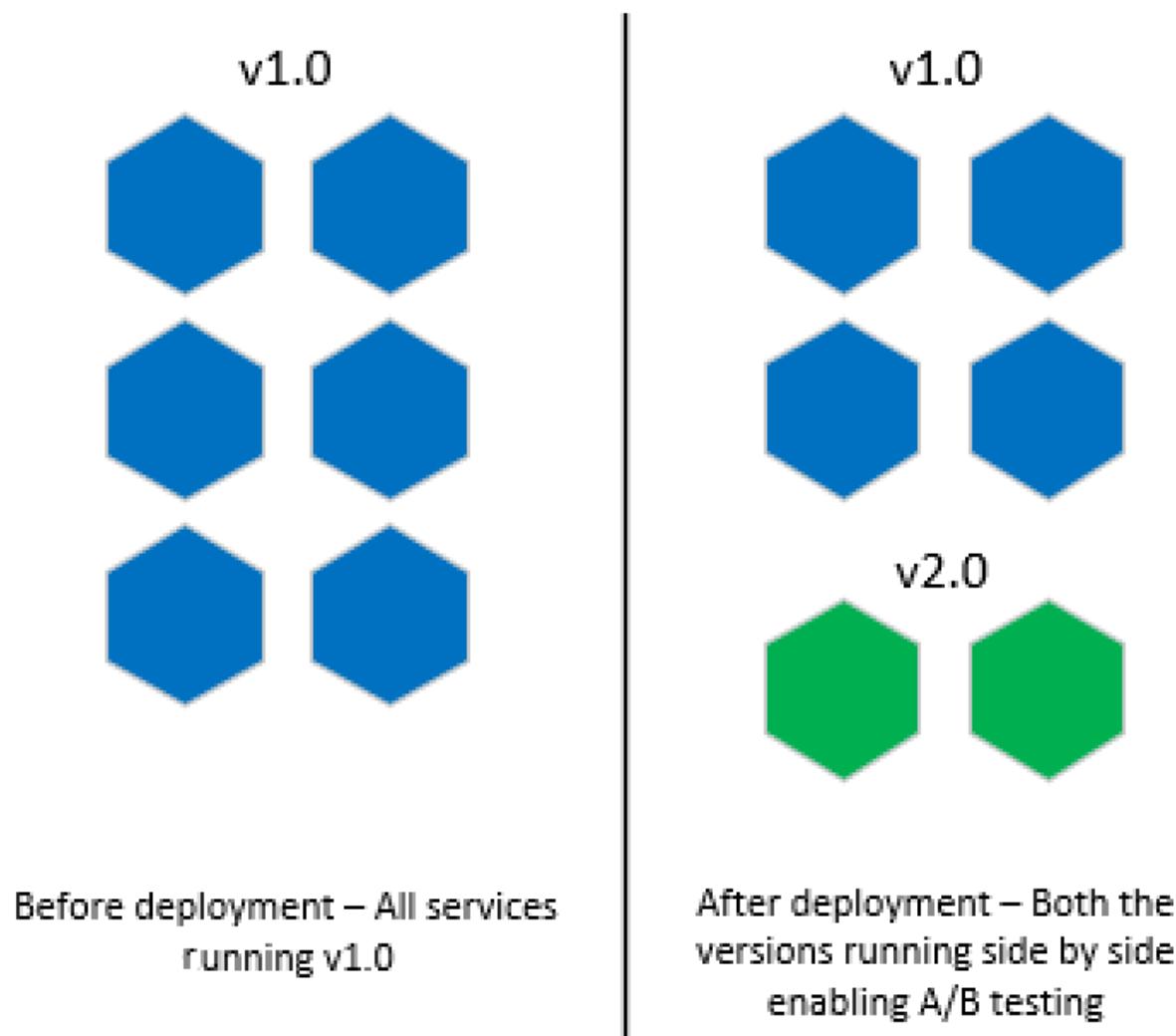
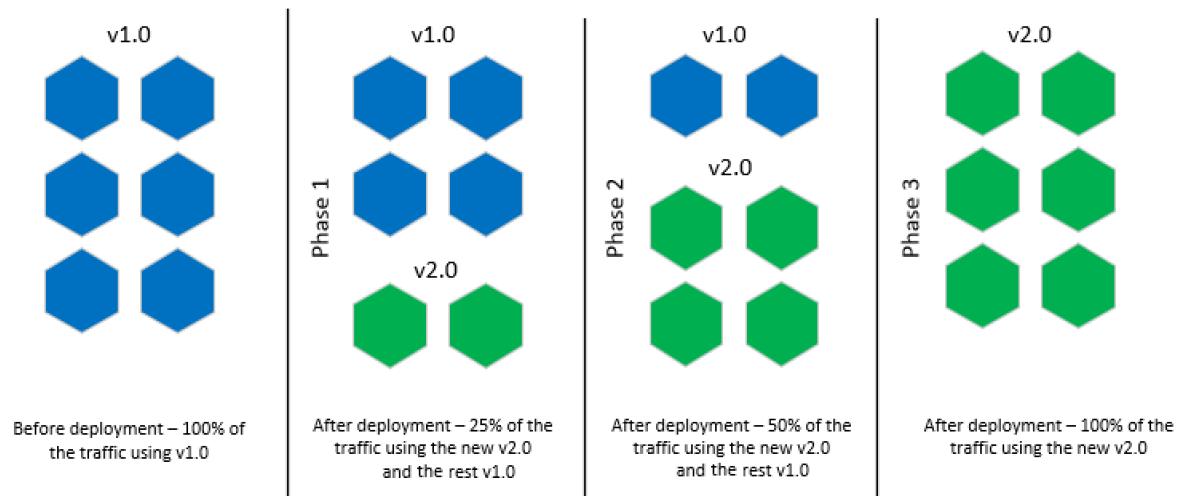


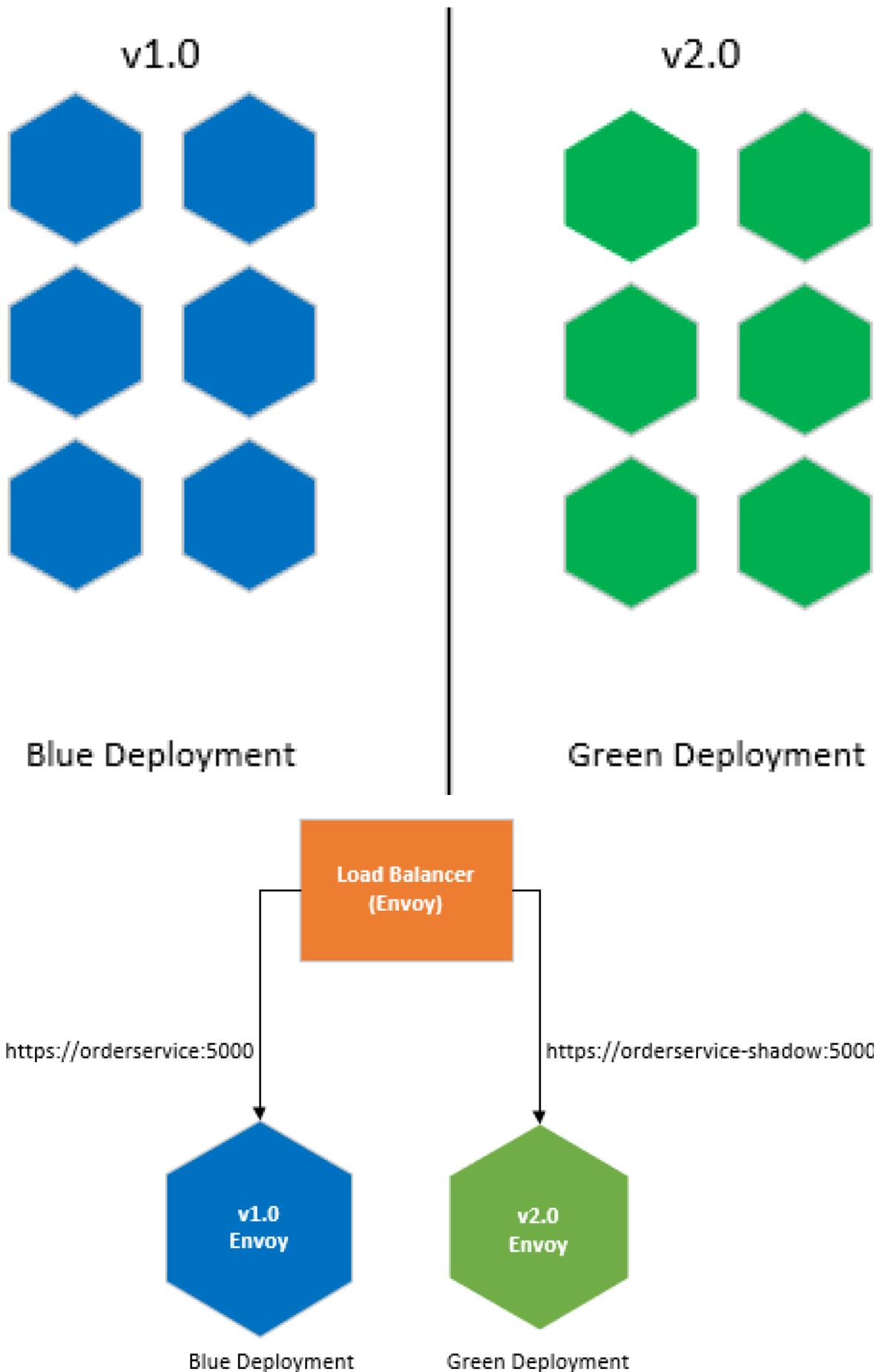


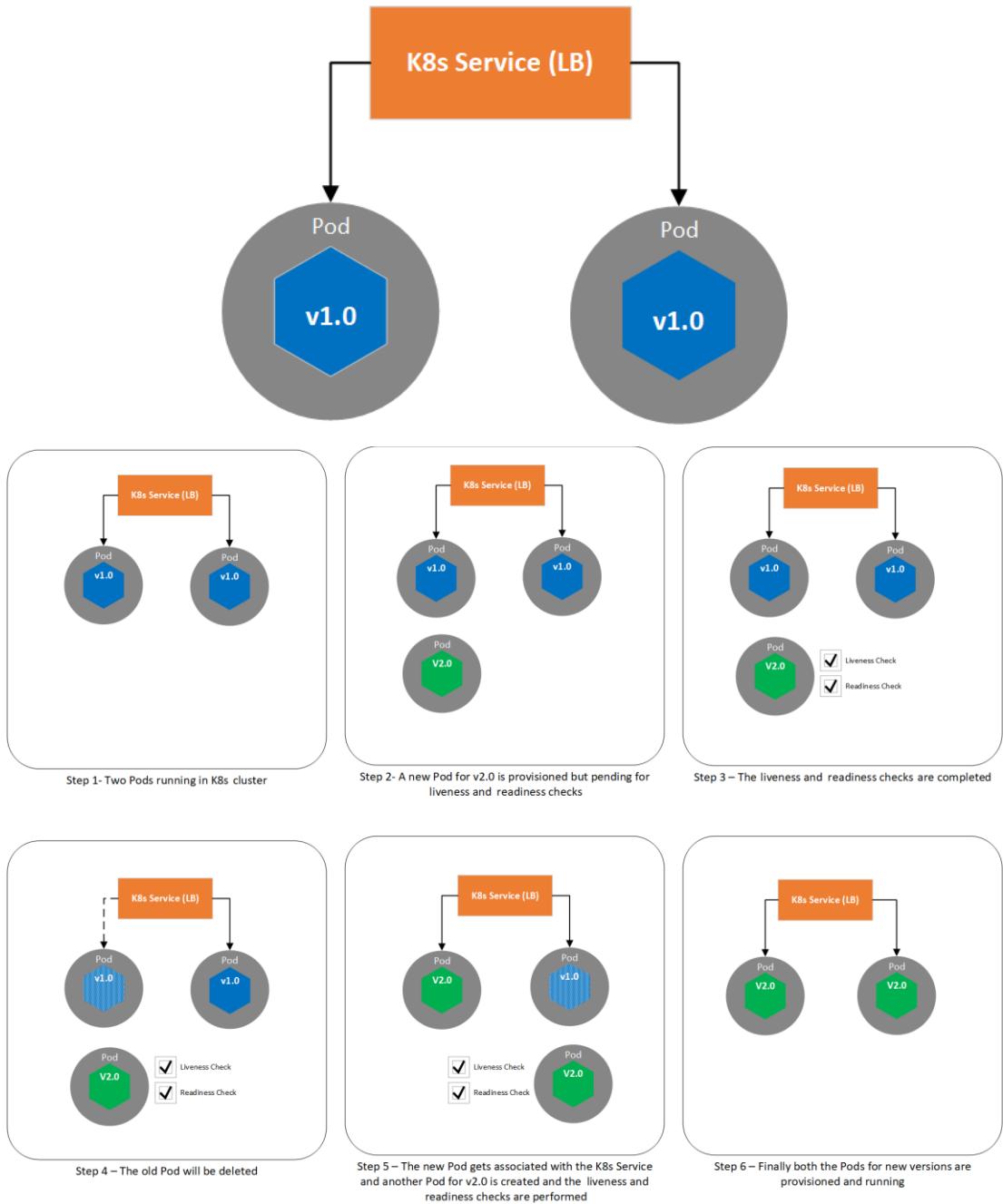


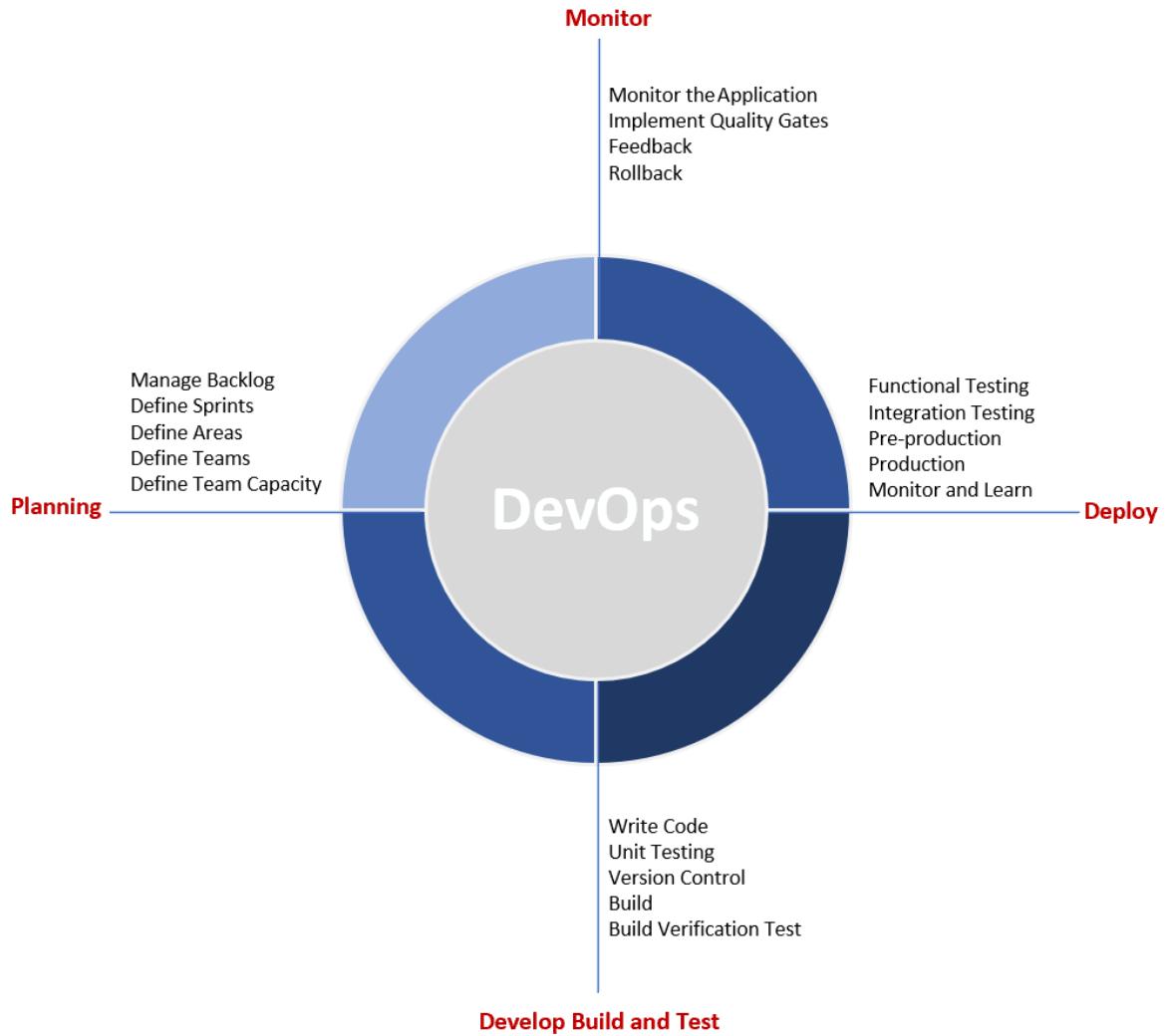


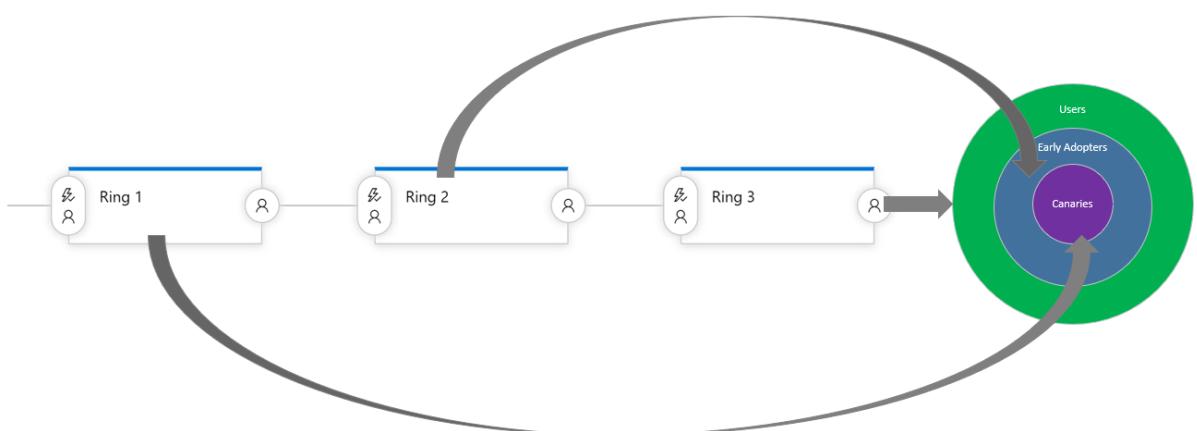
Chapter 8: Deployment Pitfalls



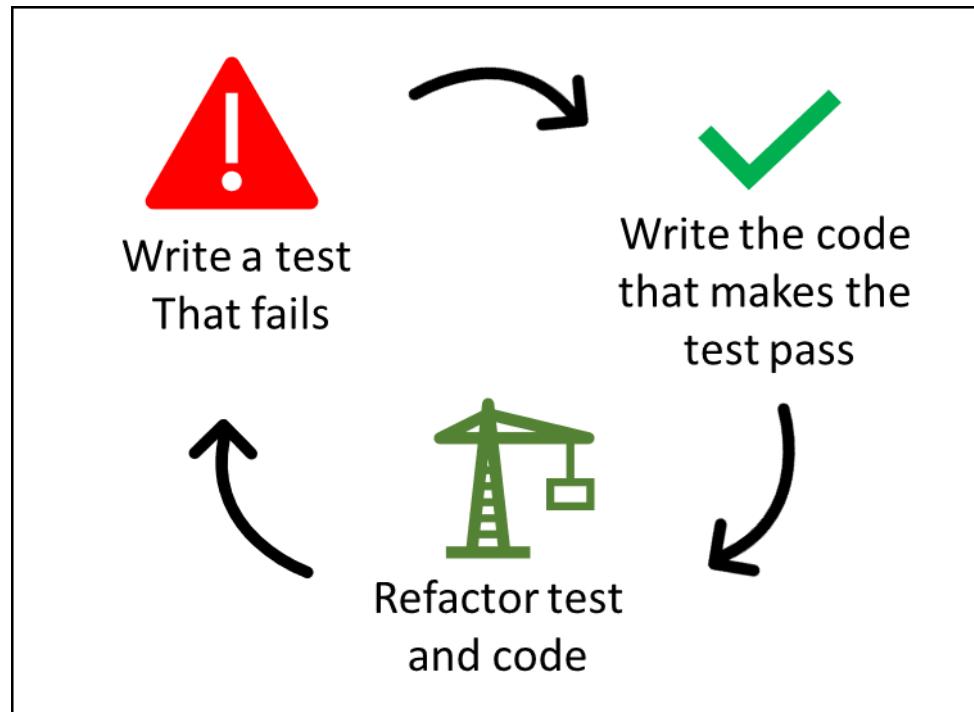
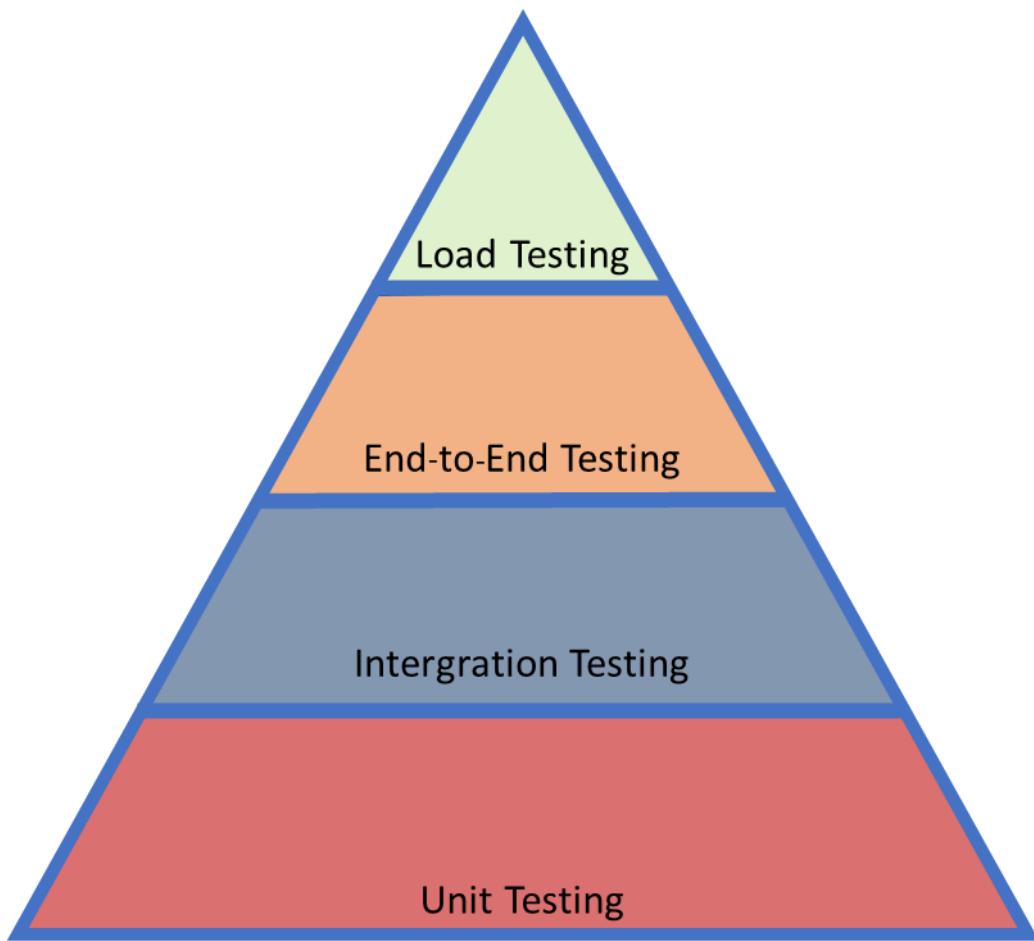


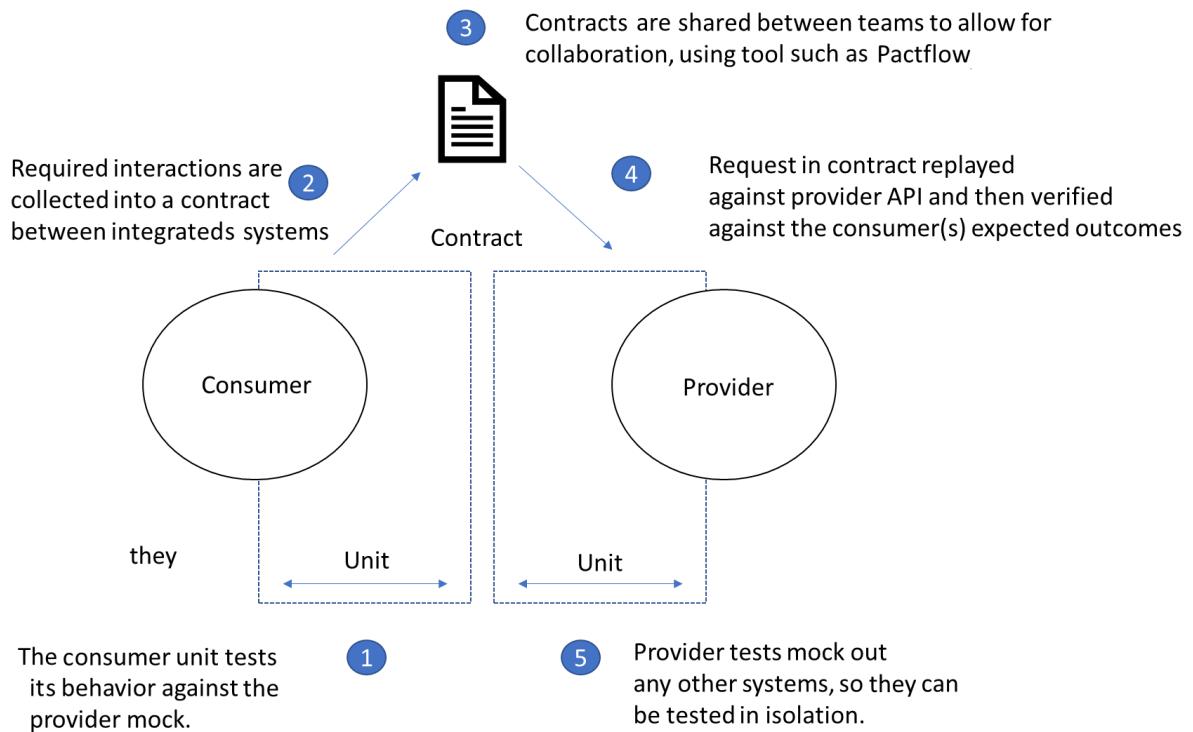






Chapter 9: Skipping Testing





Chapter 10: Evaluating a Microservices Architecture

No images...