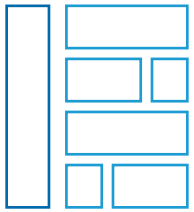
Future Things

Dave McAllister - NGINX

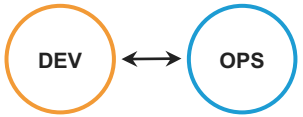
Increased complexity

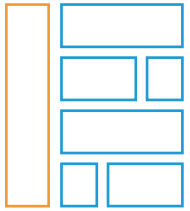
Retain & Optimize



Tightly Coupled Apps,
Slow Deployment Cycles

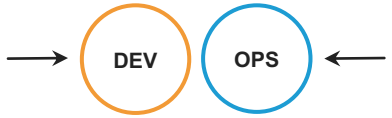
Lift & Shift



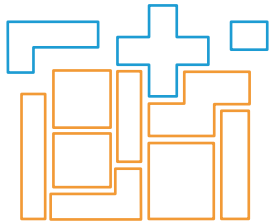


Primarily using
Cloud IaaS

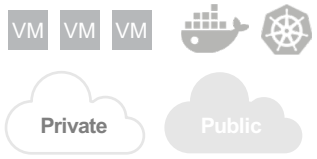
Re-Factor



Cloud Managed e.g. RDS,
DynamoDB, SaaS

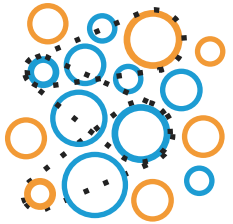


More Modular, but
Dependent App Components



Re-Architect / Cloud-Native

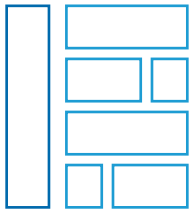
Cloud First Architecture



Loosely Coupled Microservices,
and Serverless Functions

Increased complexity

Retain & Optimize



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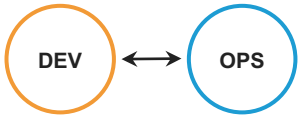

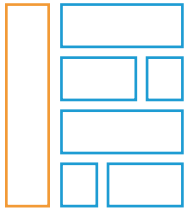

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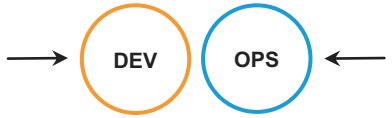

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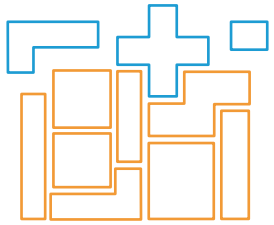

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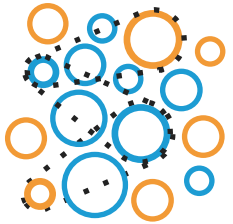
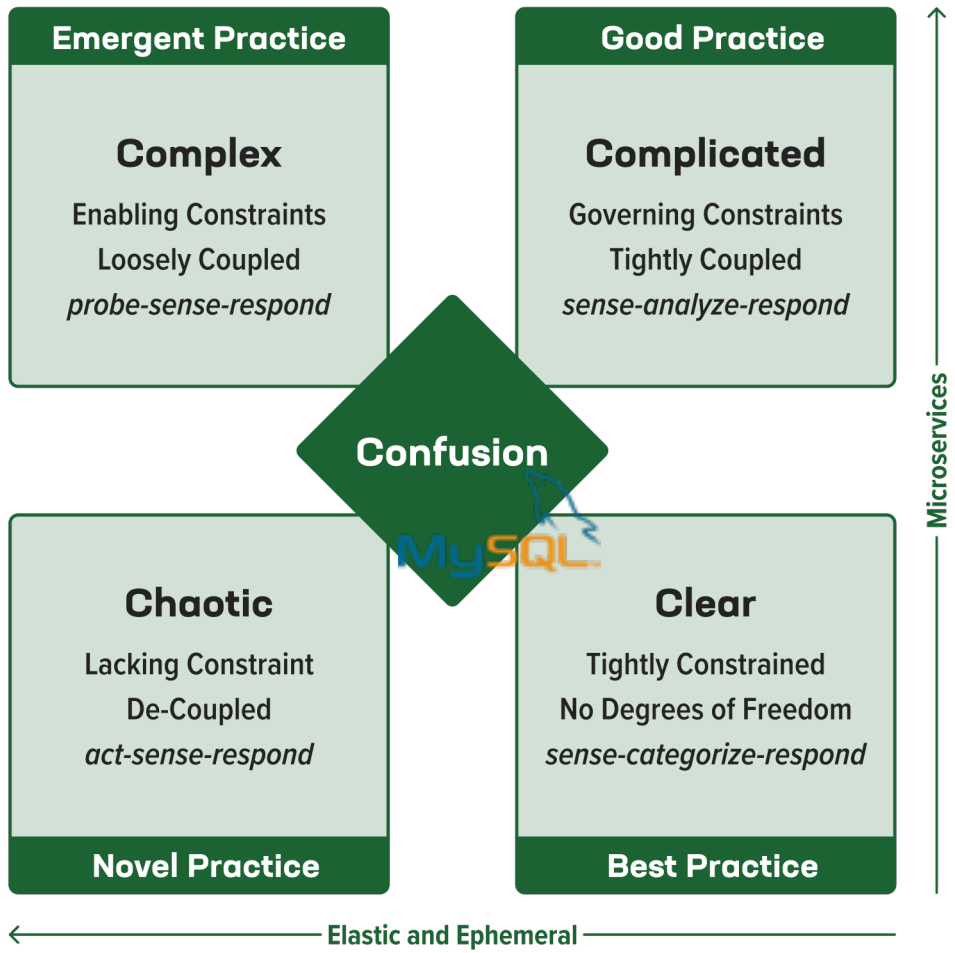


Loosely Coupled Microservices,
and Serverless Functions

VM

"By 2025, 85% of organizations will run containers in production, up from less than 30% in 2020" *– Gartner, Dec 14, 2020*

Increased complexity



Cynefin Framework

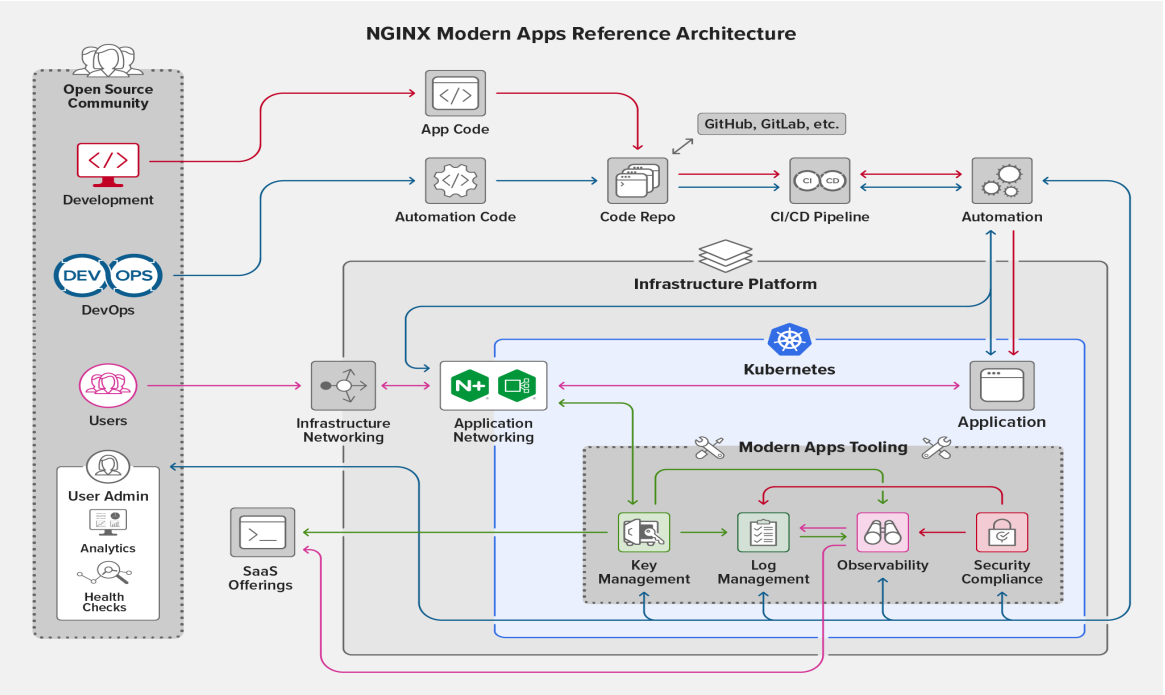
Modern Apps and Delivery Things

Modern Apps and Delivery

Microservices

- Kubernetes
- Service Meshes
- Ingress Controllers

- Migration Paths
- App servers



Modern Apps and Delivery

Microservices

- Kubernetes
- Service Meshes
- Ingress Controllers

WebAssembly

- Assembly like
- Performant
- Client and server

- Migration Paths
- App servers

- JS “good enough”?

Manage, Optimize and Observe Things

Manage, Optimize and Observe

Observability

- OpenTelemetry
- AI/ML
- Optimization

- Data deluge
- Performance hits

Manage, Optimize and Observe

Observability

- OpenTelemetry
- AI/ML
- Optimization

Management

- Centralized points
- Aided best practices
- Hybrid support

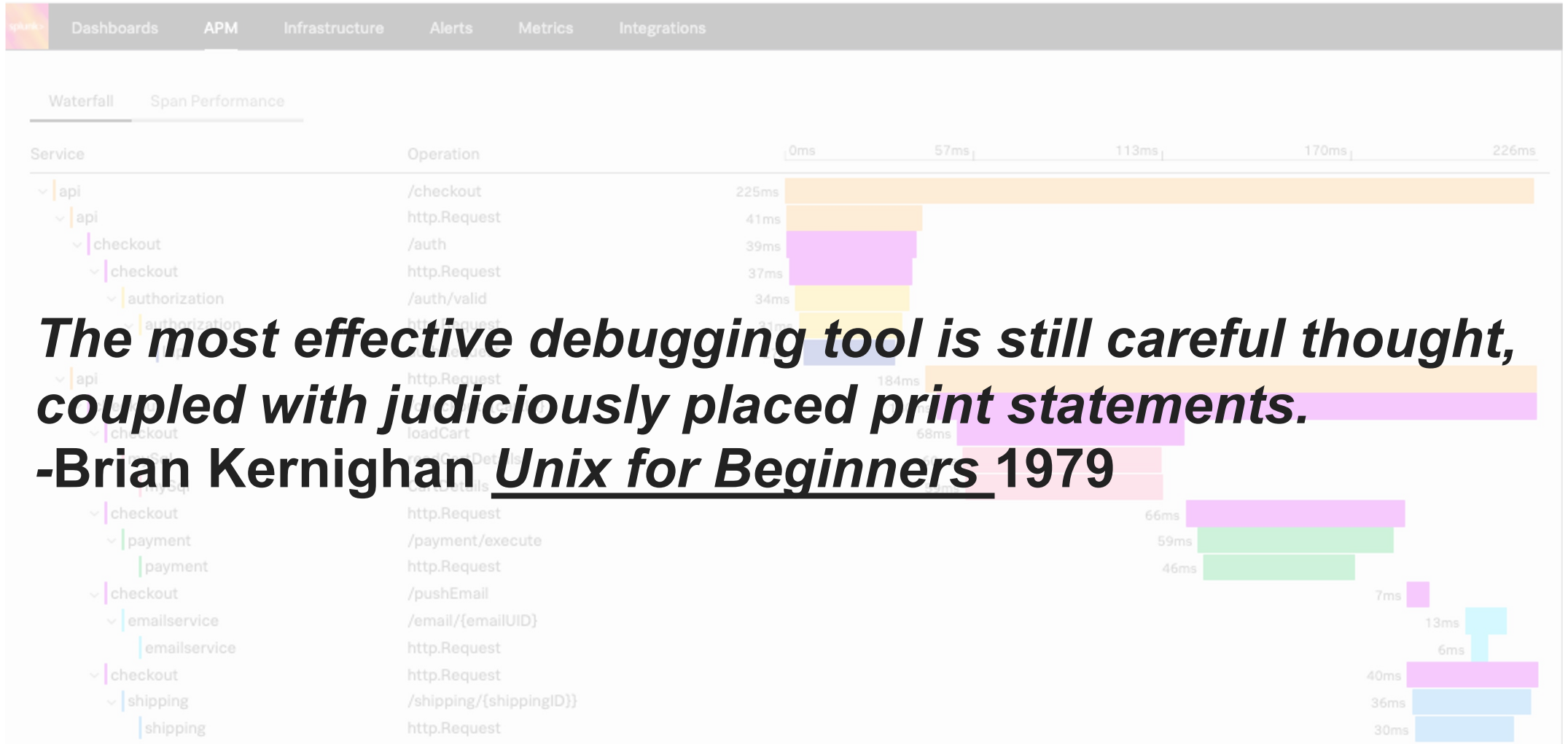
- Data deluge
- Performance hits

- Innate complexity

If you have to pick one:

WebAssembly

Closing Thoughts



The most effective debugging tool is still careful thought, coupled with judiciously placed print statements.

-Brian Kernighan *Unix for Beginners* 1979

Thanks for listening

https://wwww.linkedin.com/in/davemc