AWS re:Invent

CON417-R

Live debug microservice running on Kubernetes cluster

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AWS re:Invent

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aws

Repeat sessions

CON417-R Live debug microservice running on Kubernetes cluster
December 2, 2019 (Monday) 2:30 p.m. – Aria, Level 1 West, Bristlecone 2 – Table 2

CON417-R1 Live debug microservice running on Kubernetes cluster
December 3, 2019 (Tuesday) 11:30 a.m. – Mirage, Events Center C1 – Table 1

CON417-R2 Live debug microservice running on Kubernetes cluster
December 4, 2019 (Wednesday) 4:00 p.m. – Mirage, Events Center C1 – Table 1

CON417-R3 Live debug microservice running on Kubernetes cluster
December 5, 2019 (Thursday) 11:30 a.m. – Mirage, Events Center C1 – Table 2

Agenda

1. Traditional development workflow
2. Painful development workflow in Kubernetes
3. Reasons for painful process
4. Dev-friendly development workflow in Kubernetes
5. Tools to rescue
6. Demo

Traditional monolithic development workflow

Develop

Develop locally

Test

Test locally

Deploy

Deploy to remote server

Painful development workflow in Kubernetes

Develop

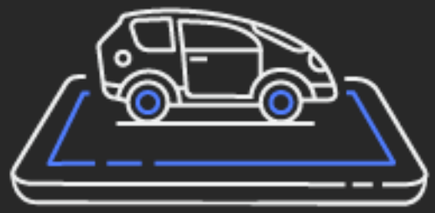
Develop locally

Build image

Build and push Docker image

Deploy

Deploy to remote server



Test

Test with remote services

Repeat

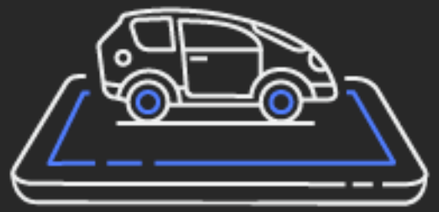
Reasons for painful process

1. Multiple dependent microservices
2. Local setup challenges for various services
3. Separate IP range for remote cluster
4. Databases in the mix

Dev-friendly development workflow in Kubernetes

Develop

Develop locally



Test

Test locally with remote services

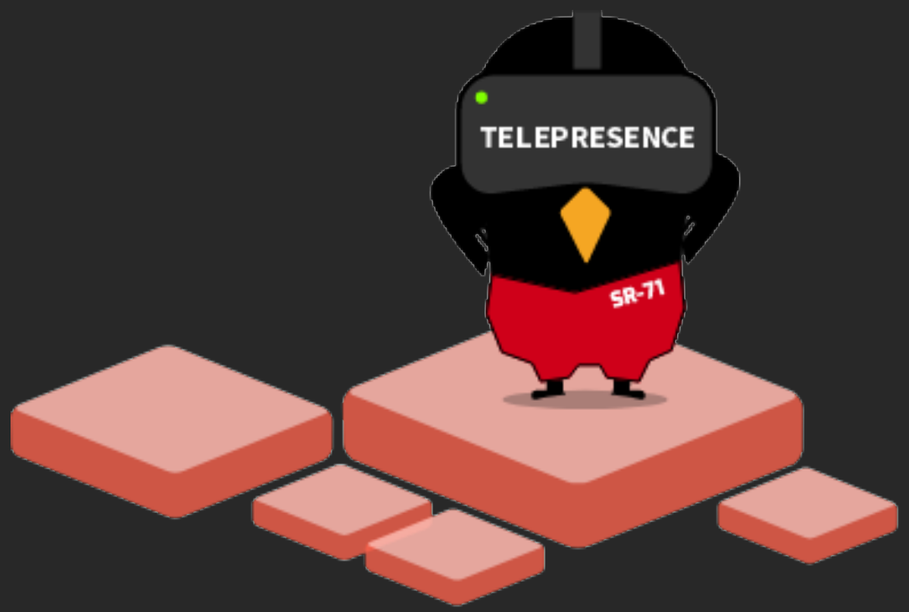
Build image

Build and push Docker image

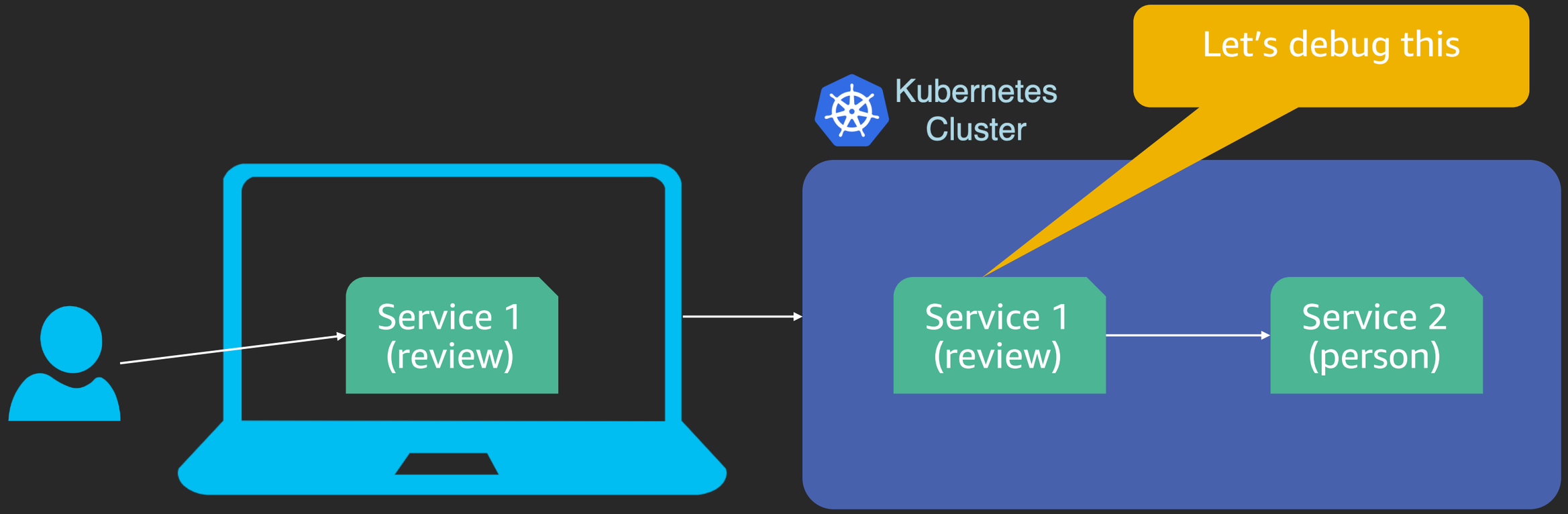
Deploy

Deploy to remote server

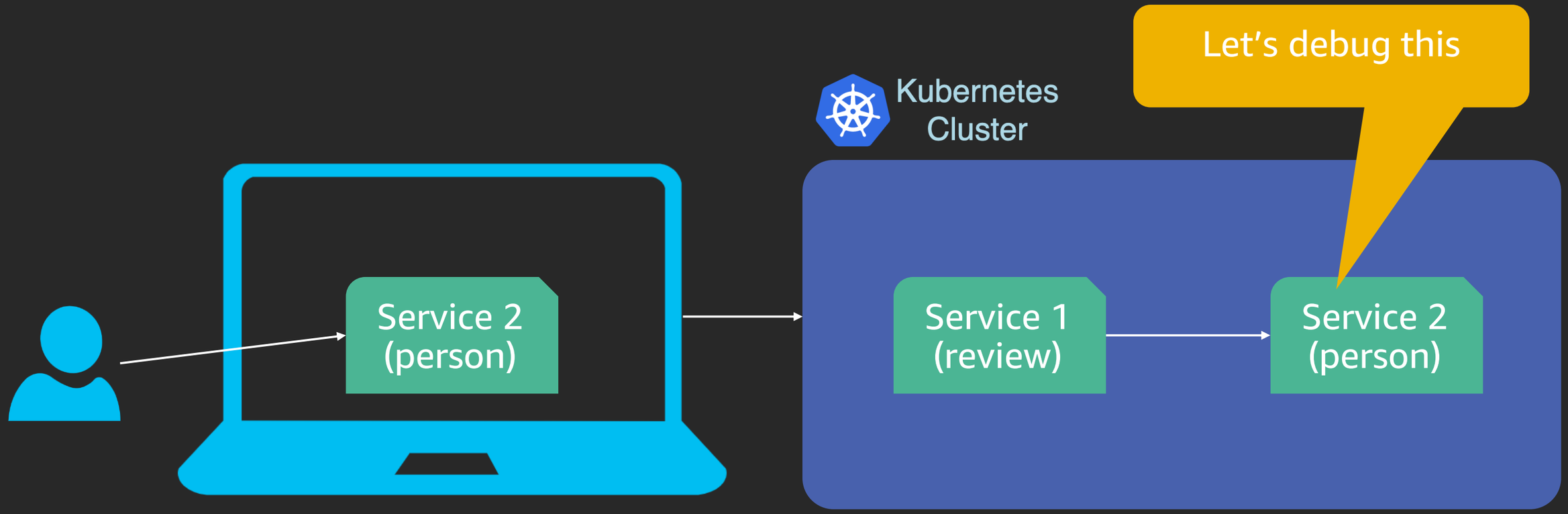
Tools to rescue



Scenario 1 – Live debug service 1 – VPN



Scenario 2 – Live debug service 2 – VPN + pod swap



Demo

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Thank you!

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