

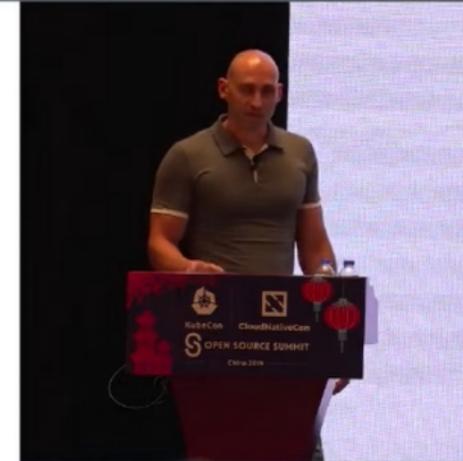
Introduction

介绍



Extension
Knative



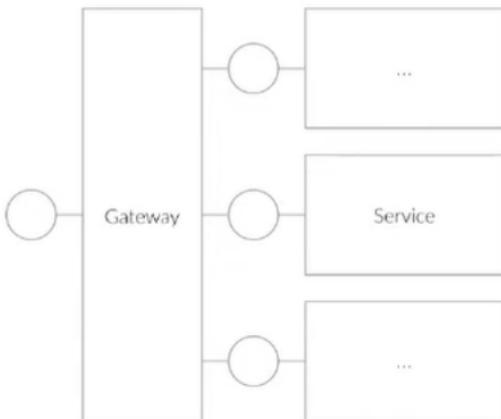


Lifecycle Management

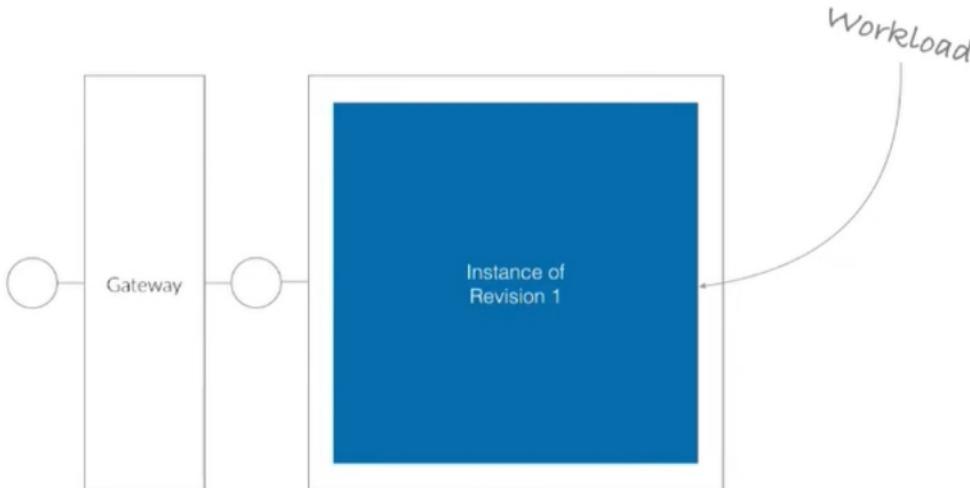
Overview



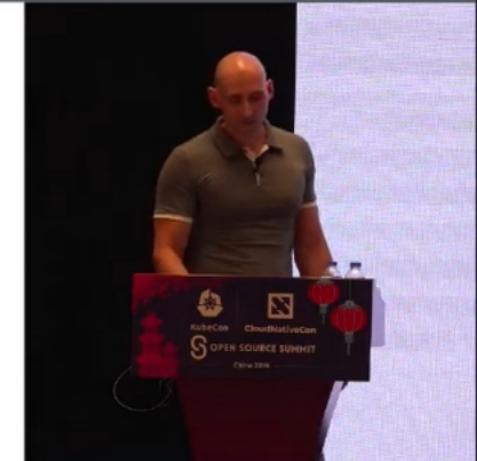
Architectural Perspective



Operational Perspective

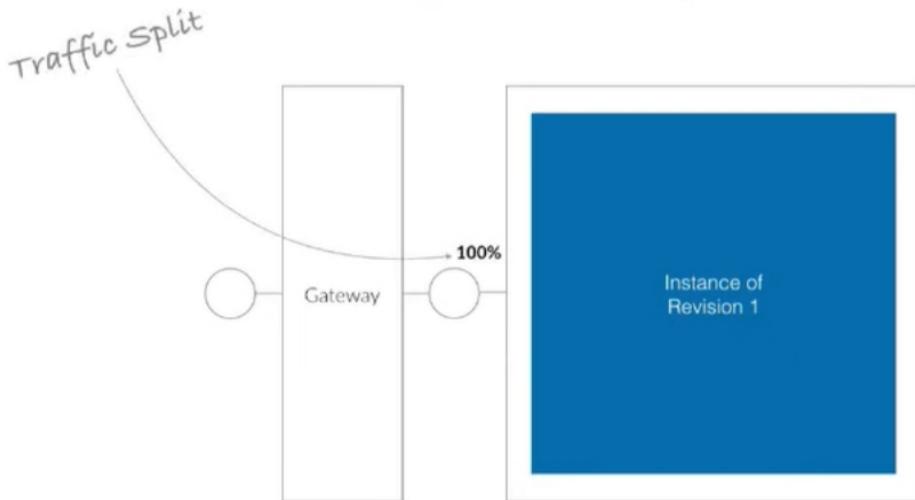


create(Workload Specification for Revision 1)

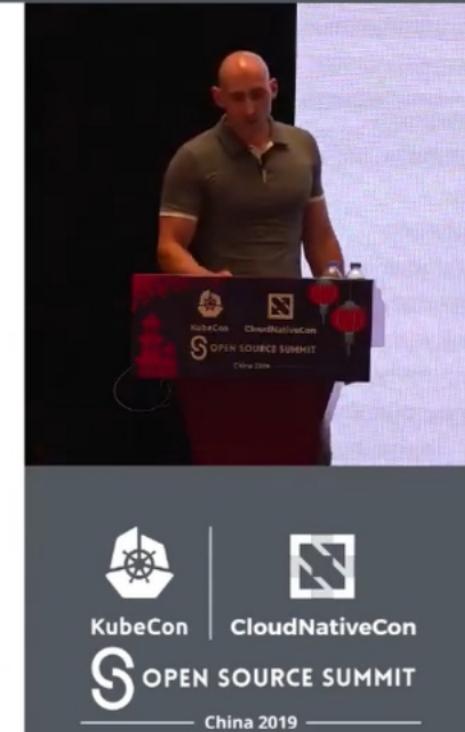


KubeCon | CloudNativeCon
S OPEN SOURCE SUMMIT
China 2019

Operational Perspective

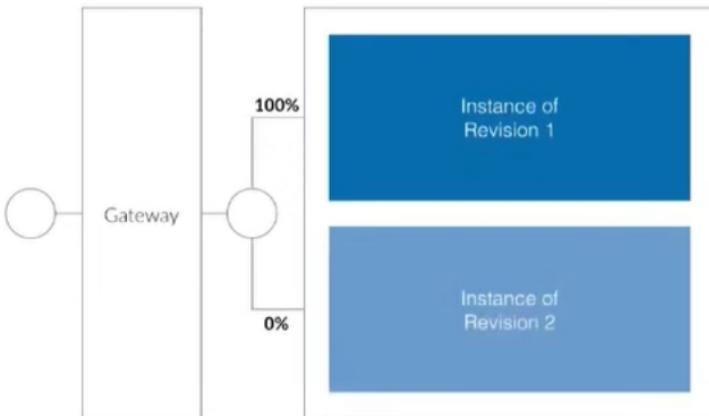


```
create(Traffic Split Specification (Revision 1, 100%))
```

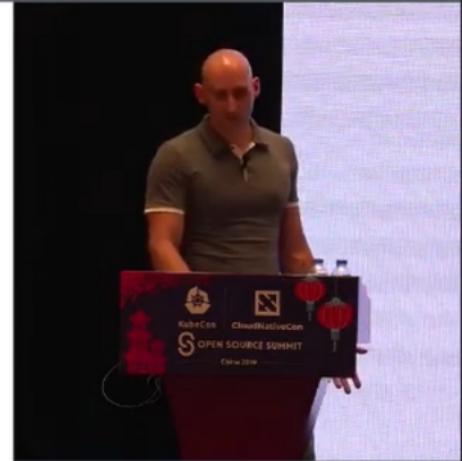


KubeCon | CloudNativeCon
S OPEN SOURCE SUMMIT
China 2019

Operational Perspective



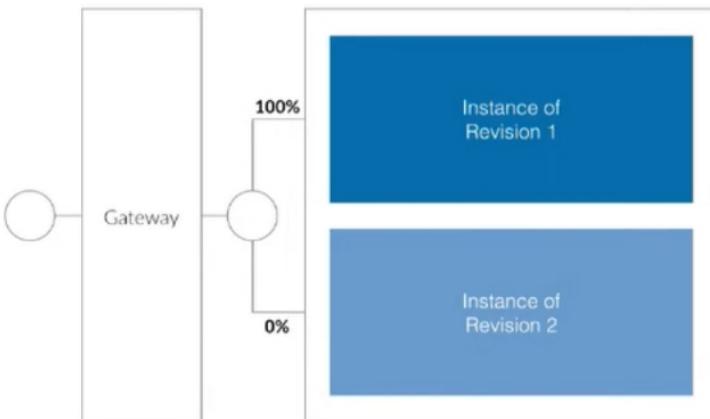
create(Workload Specification for Revision 2)



Operational Perspective

Immediate Rollout

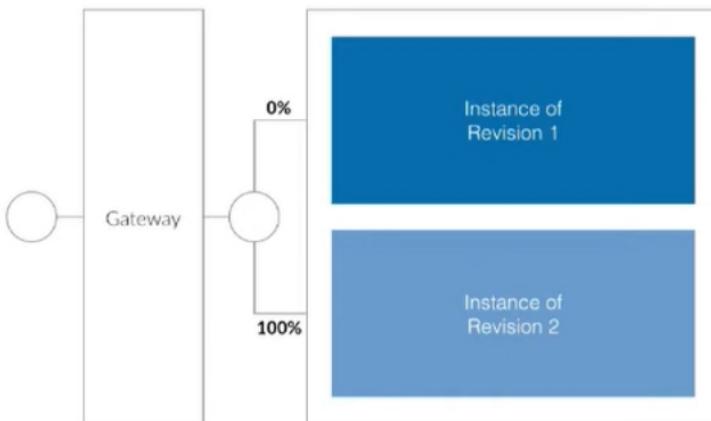
ready. Set. Go.



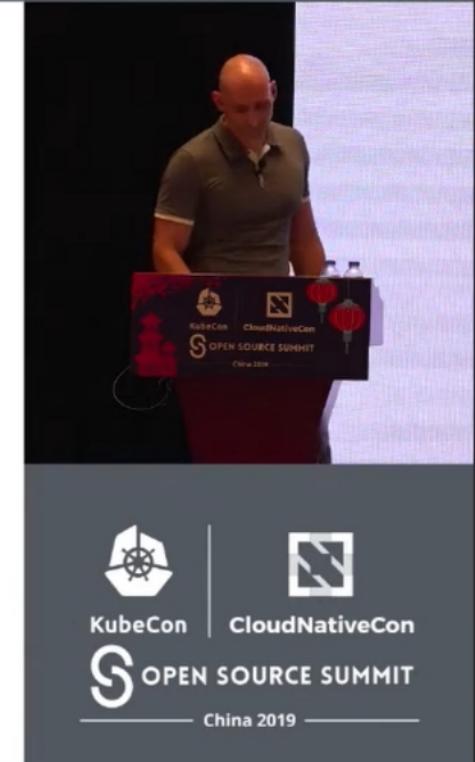
KubeCon | CloudNativeCon
S OPEN SOURCE SUMMIT
China 2019

Operational Perspective

Immediate Rollout



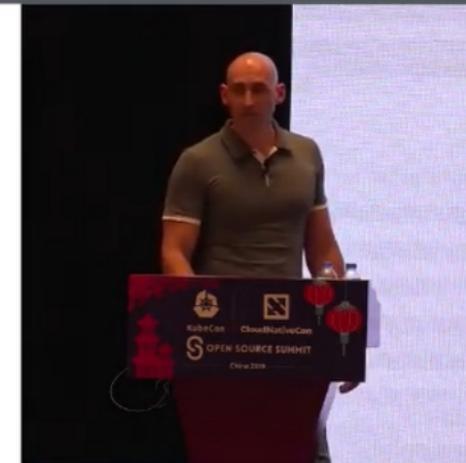
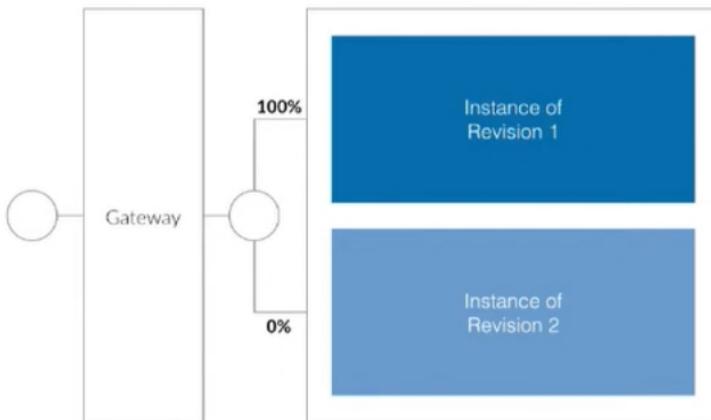
```
update(Traffic Split Specification (Revision 1, 0%), (Revision 2, 100%))
```



Operational Perspective

Gradual Rollout

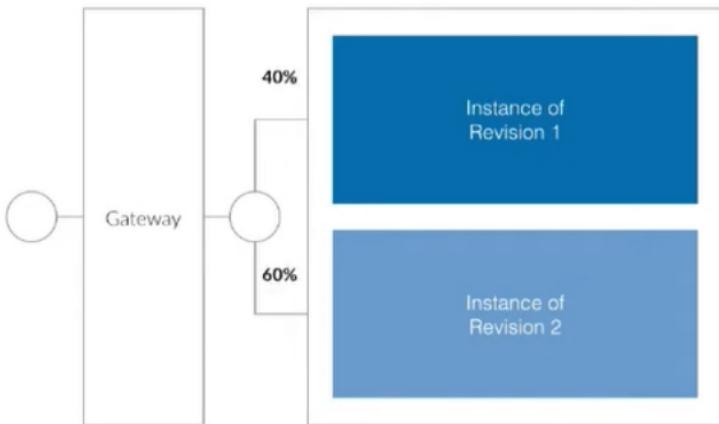
Ready. Set. Go.



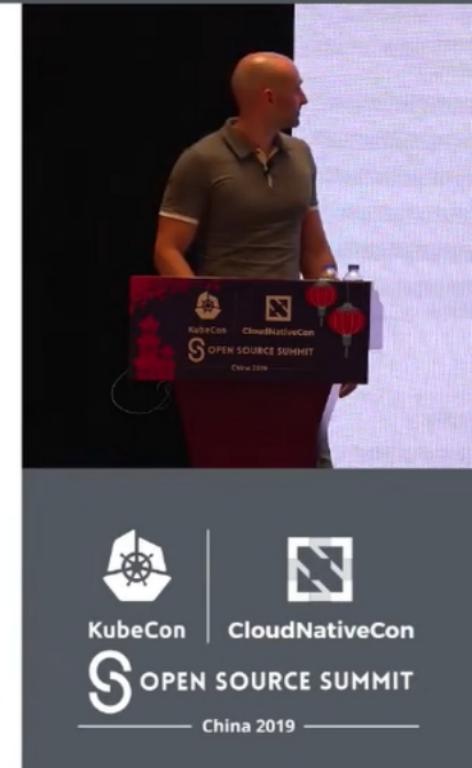
KubeCon | CloudNativeCon
S OPEN SOURCE SUMMIT
China 2019

Operational Perspective

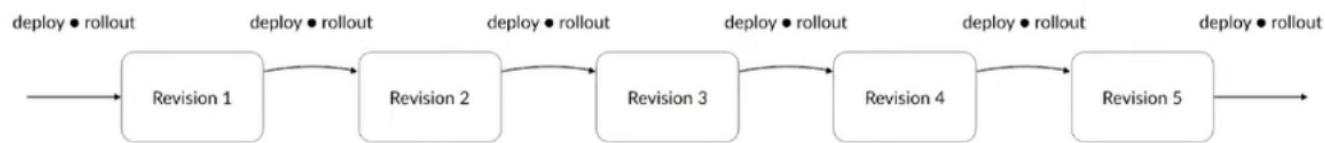
Gradual Rollout



```
update(Traffic Split Specification (Revision 1, 40%), (Revision 2, 60%))
```



KubeCon | CloudNativeCon
S OPEN SOURCE SUMMIT
China 2019



Lifecycle Management

Manual Operations



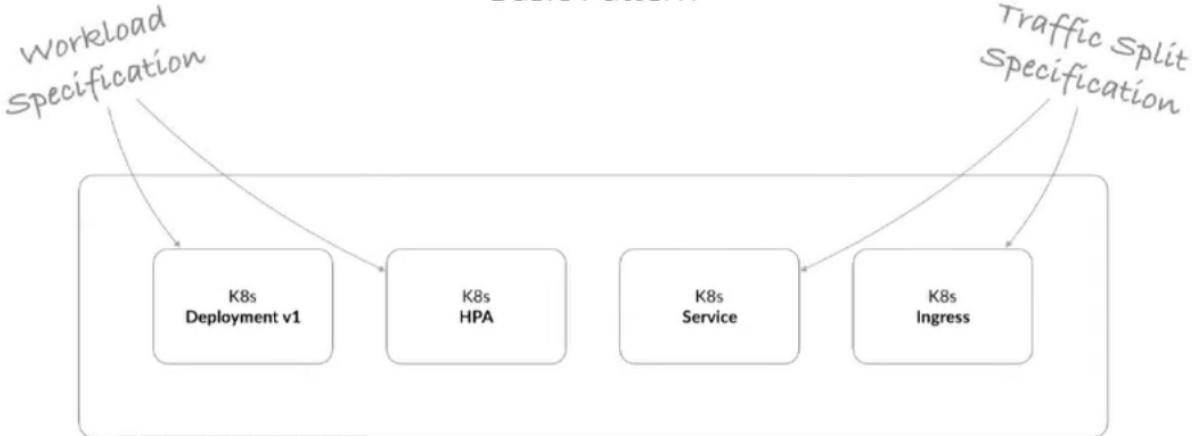
Microservice



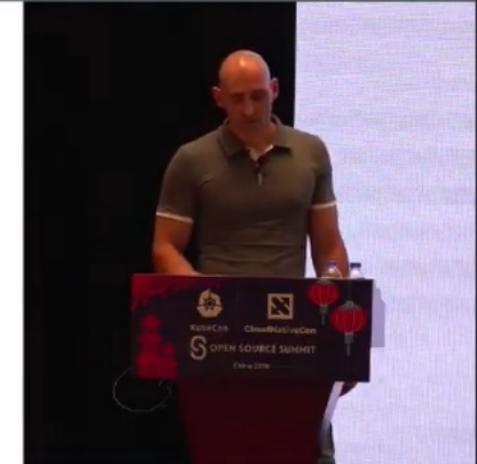
Basic Pattern



Basic Pattern



Basic Pattern



Basic Pattern

Initial Revision

Create
Deployment v1



Create
HPA



Create
Service



Create
Ingress



Basic Pattern

Subsequent Revision

Create
Deployment v1



Create
HPA



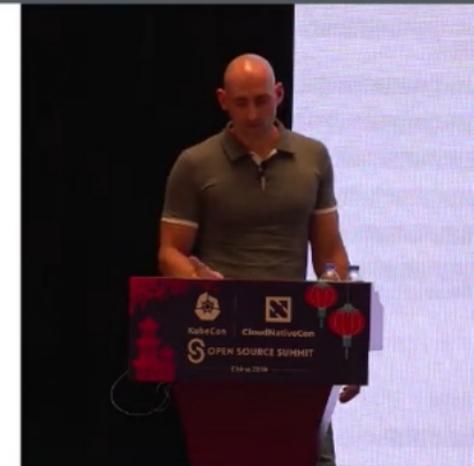
Create
Service



Create
Ingress



Update
Deployment v2



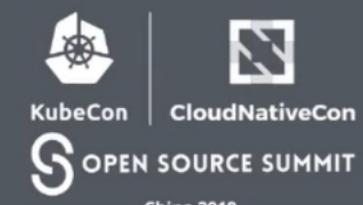
Basic Pattern



Advanced Pattern



Advanced Pattern



Advanced Pattern



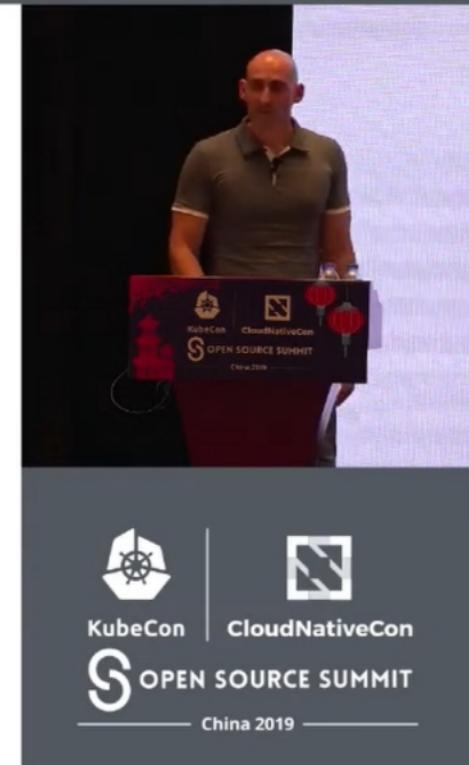
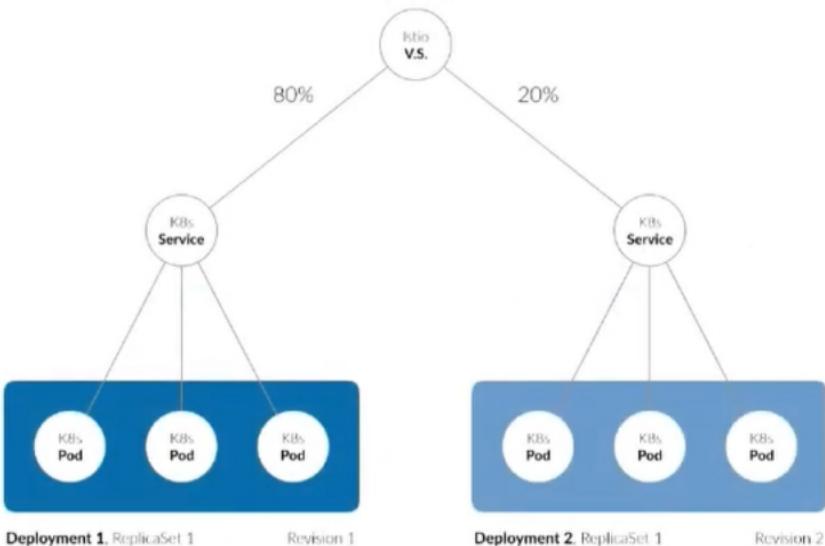
KubeCon | CloudNativeCon
S OPEN SOURCE SUMMIT
China 2019

Advanced Pattern

Subsequent Revision



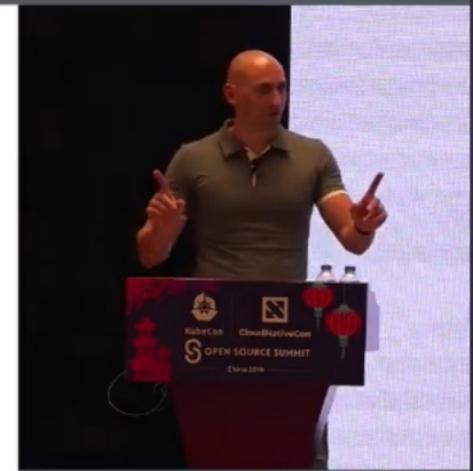
Advanced Pattern



KubeCon | CloudNativeCon
S OPEN SOURCE SUMMIT
China 2019

Lifecycle Management

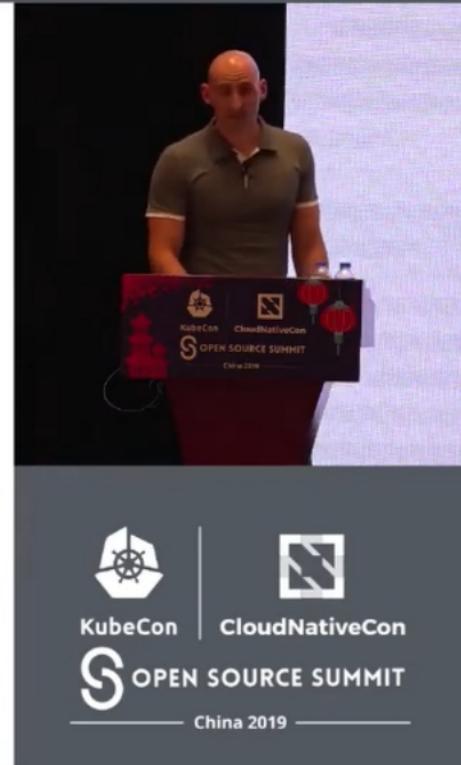
Automated Operations

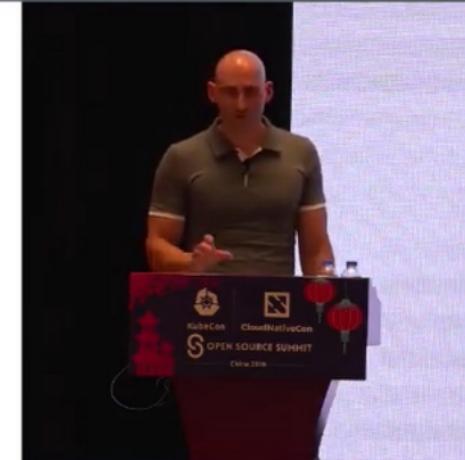


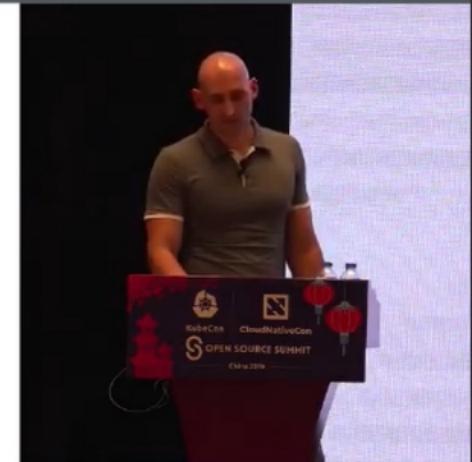
Meet
Knative Serving

Lifecycle Management

Automated Operations



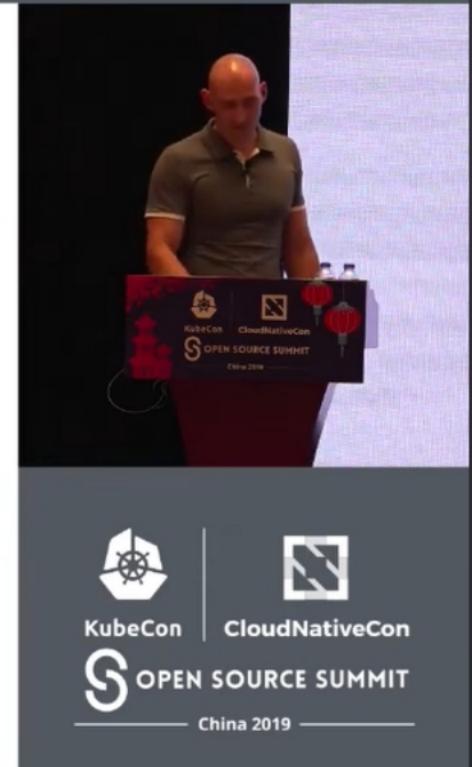


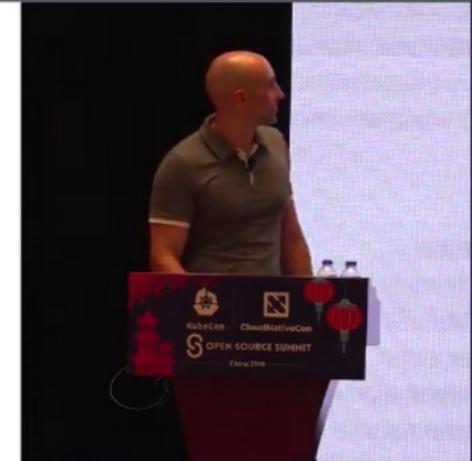
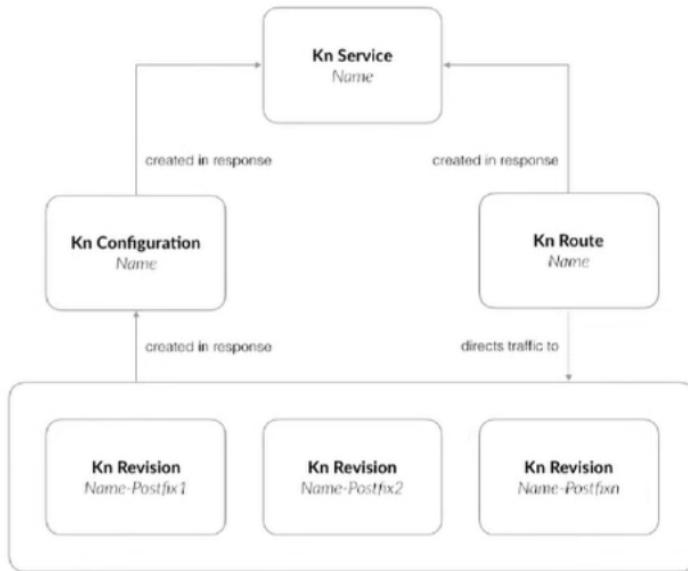


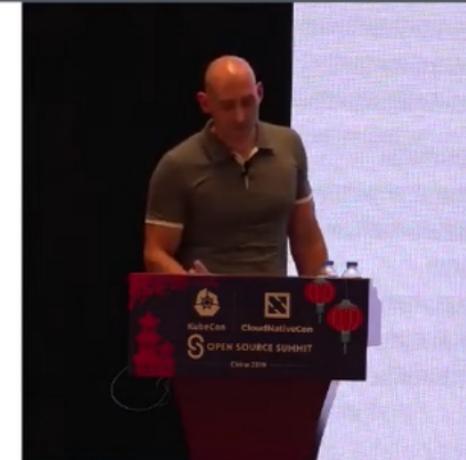
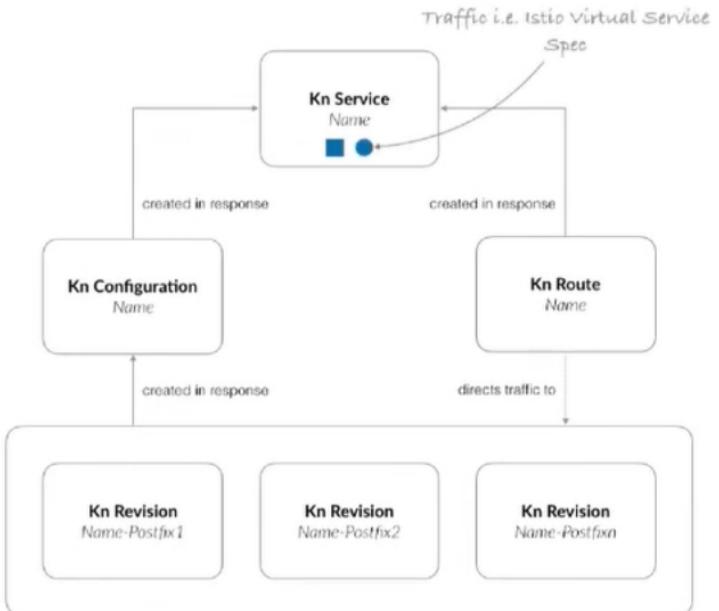


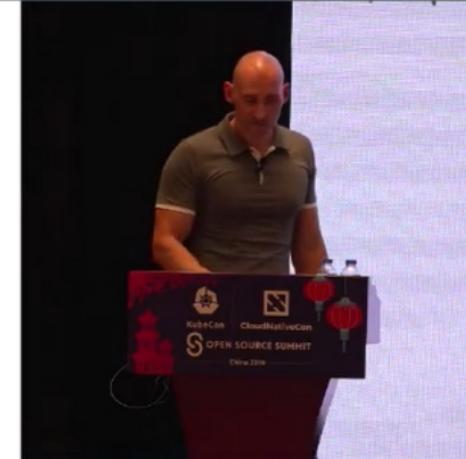
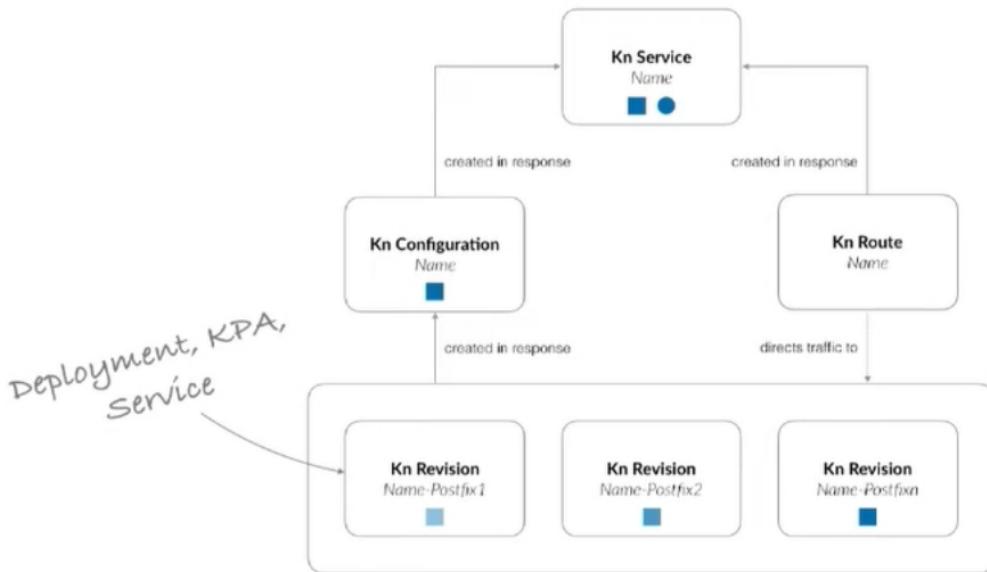
Lifecycle Management

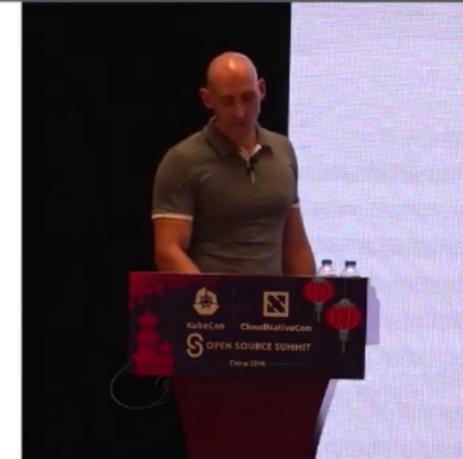
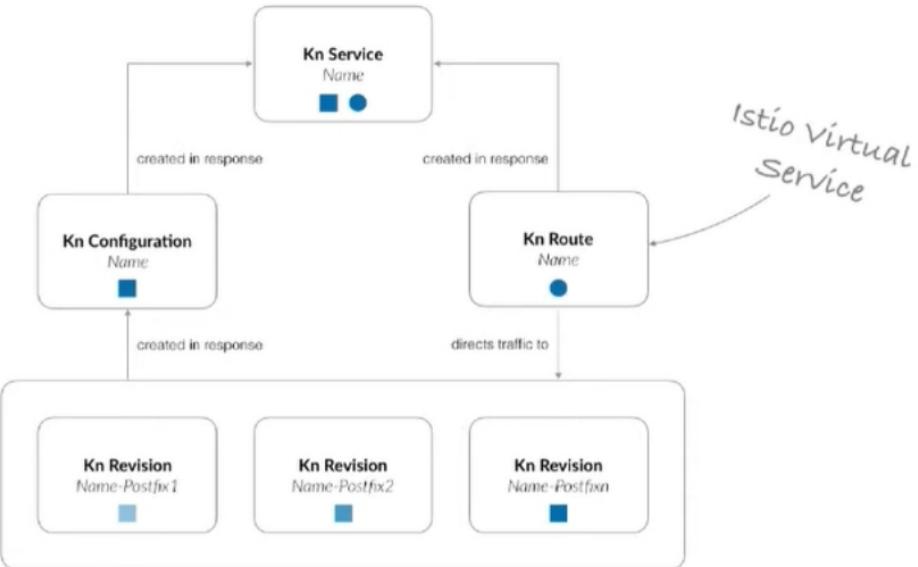
Knative Serving Internals

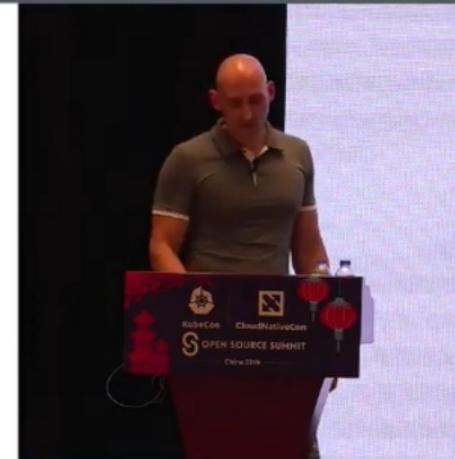
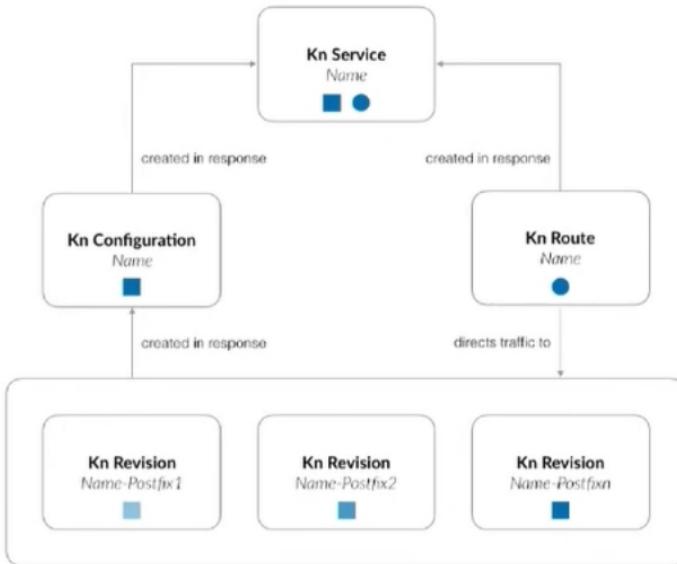




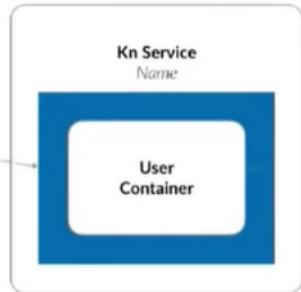






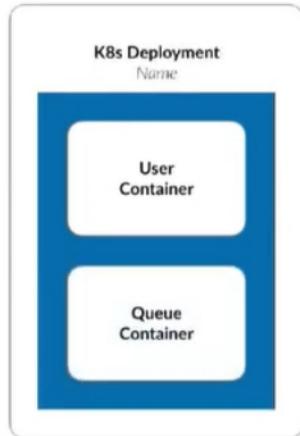


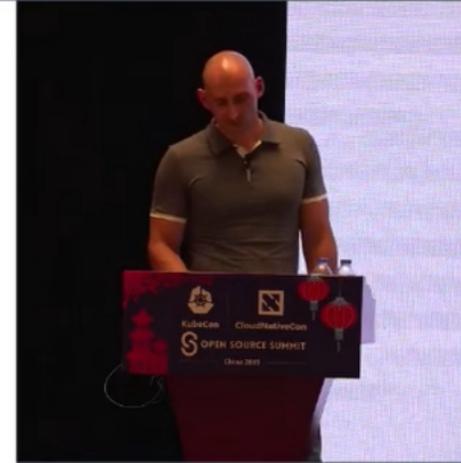
*Pod
specification*



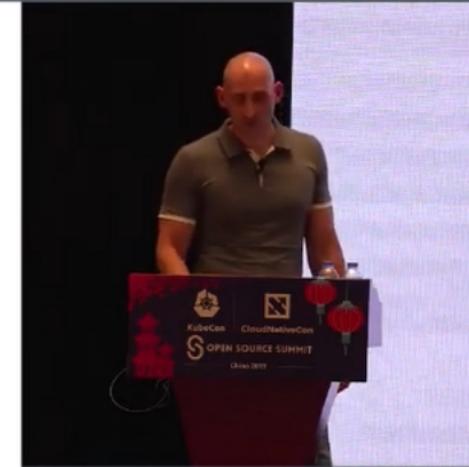
*Your
App*

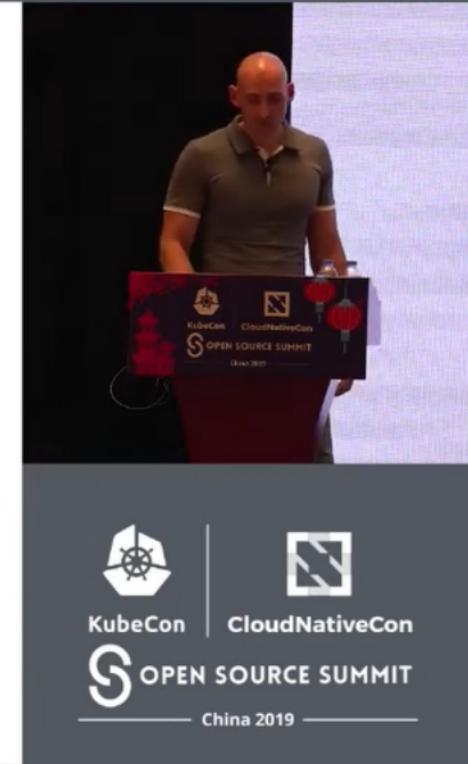
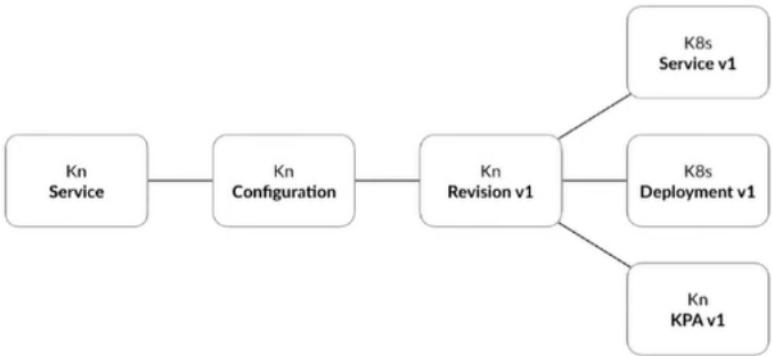


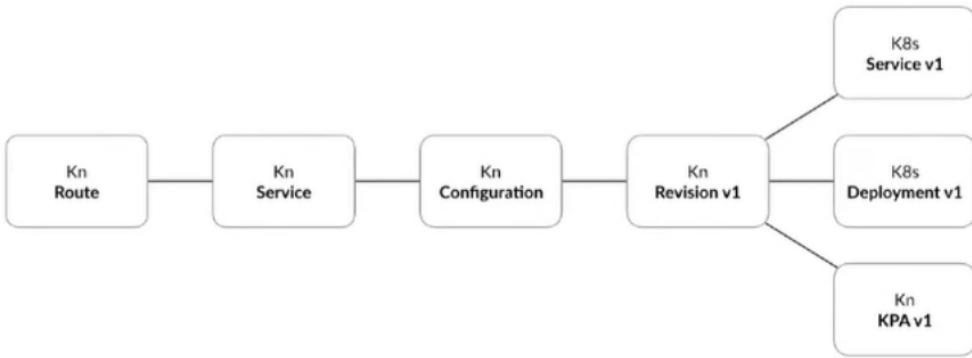




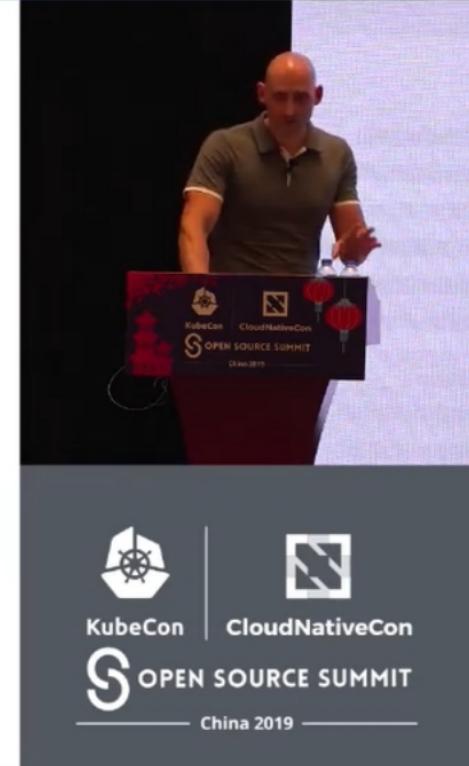
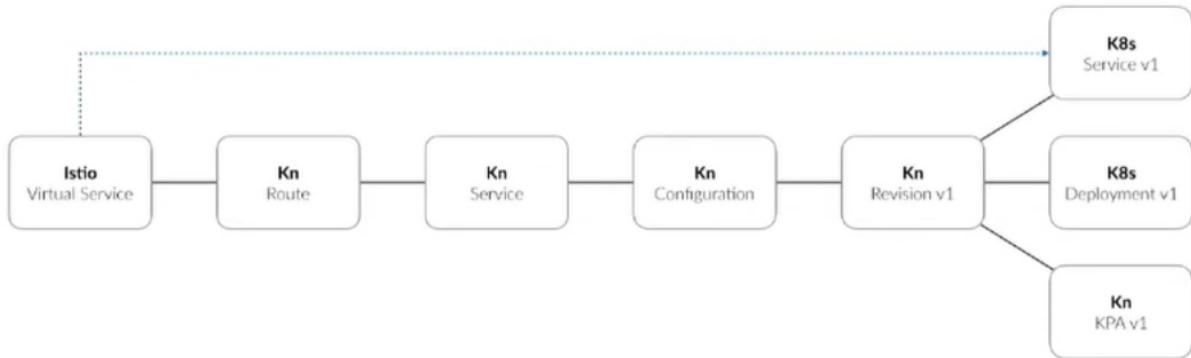


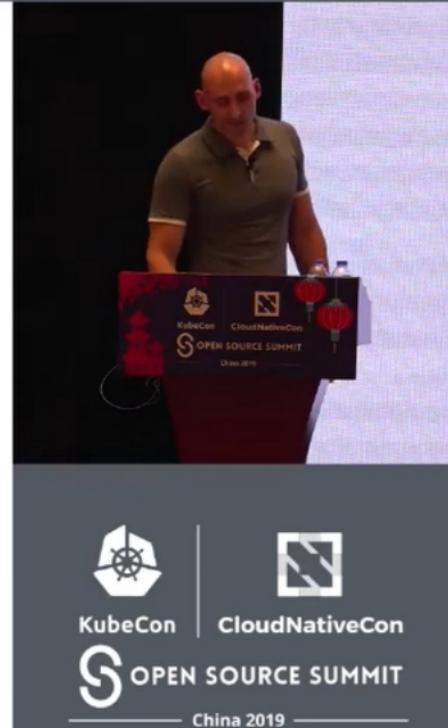
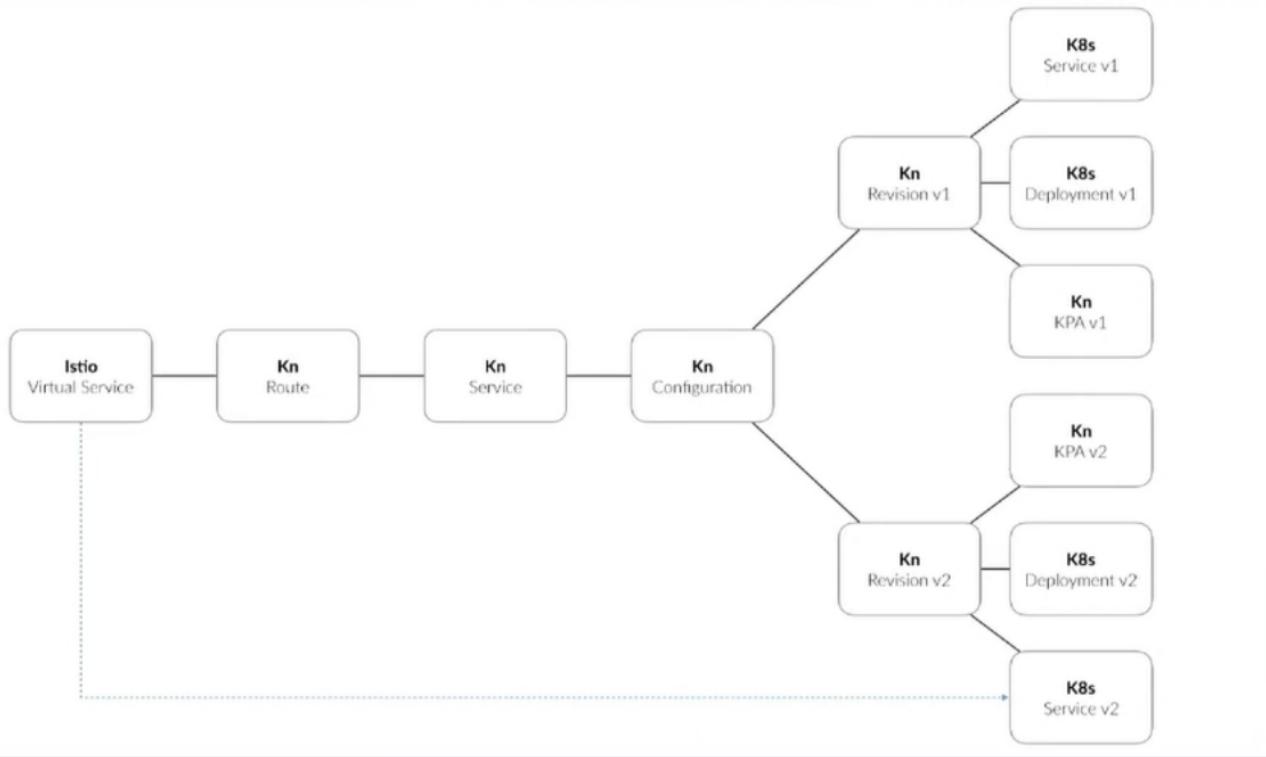






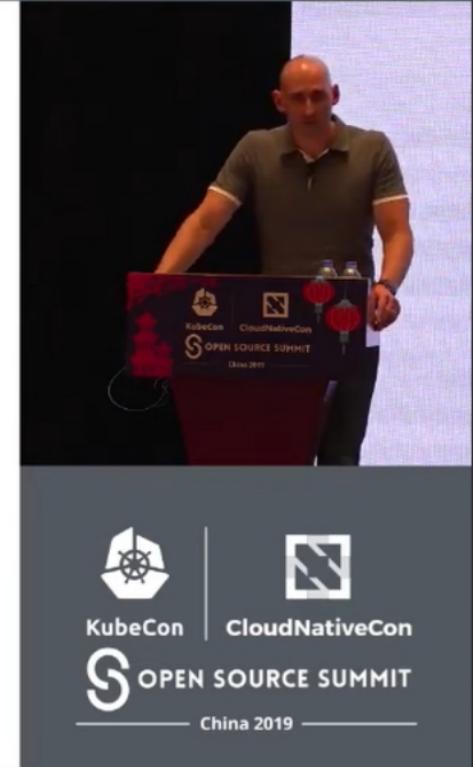
 
KubeCon | CloudNativeCon
 OPEN SOURCE SUMMIT
China 2019



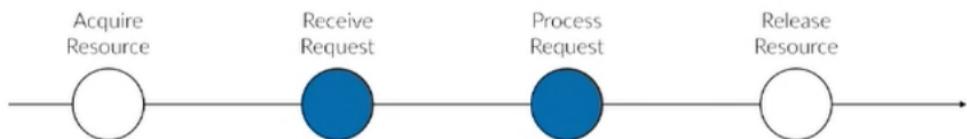


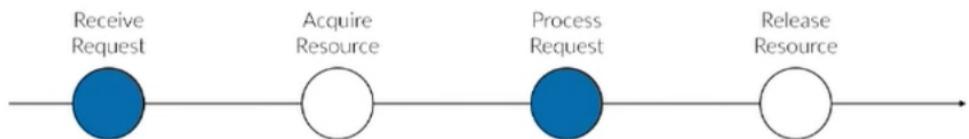
Resource Management

Knative Serving

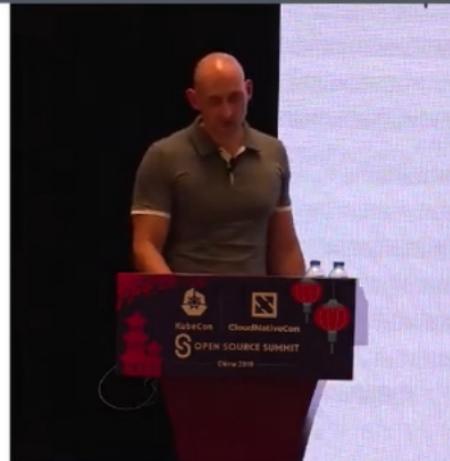
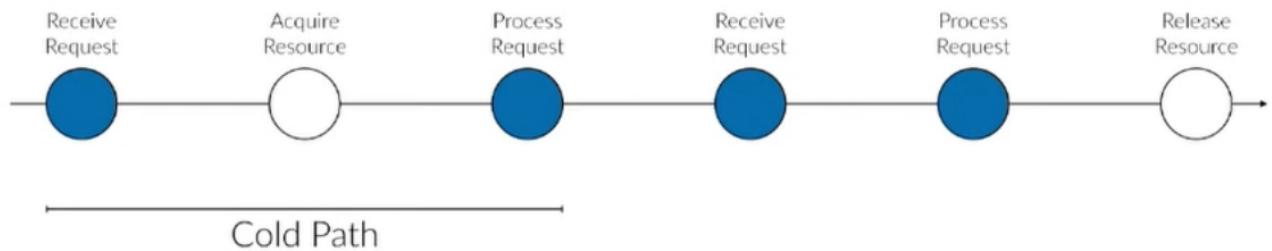


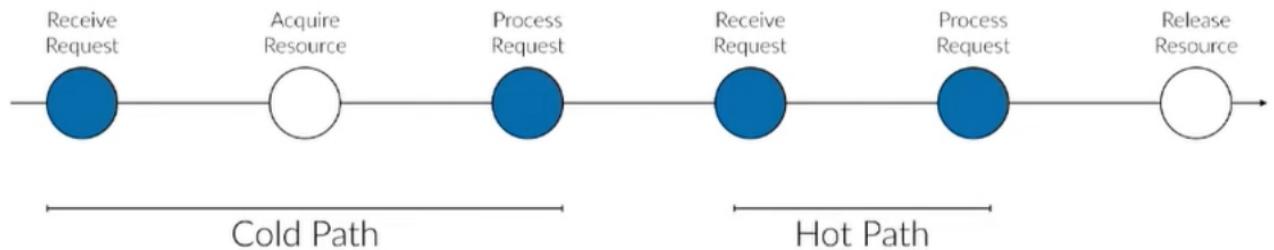
 
KubeCon | CloudNativeCon
 OPEN SOURCE SUMMIT
— China 2019 —

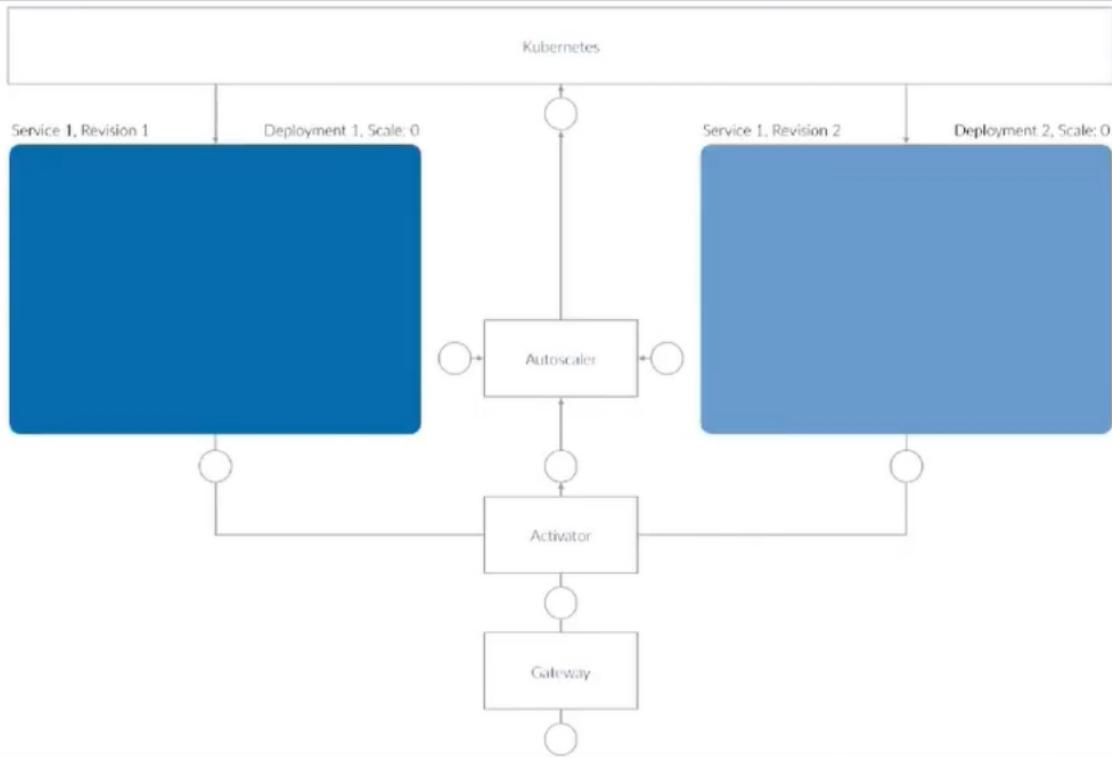


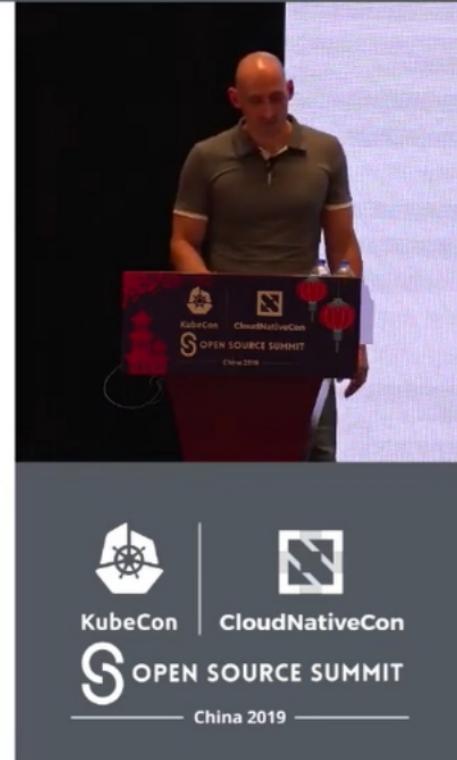
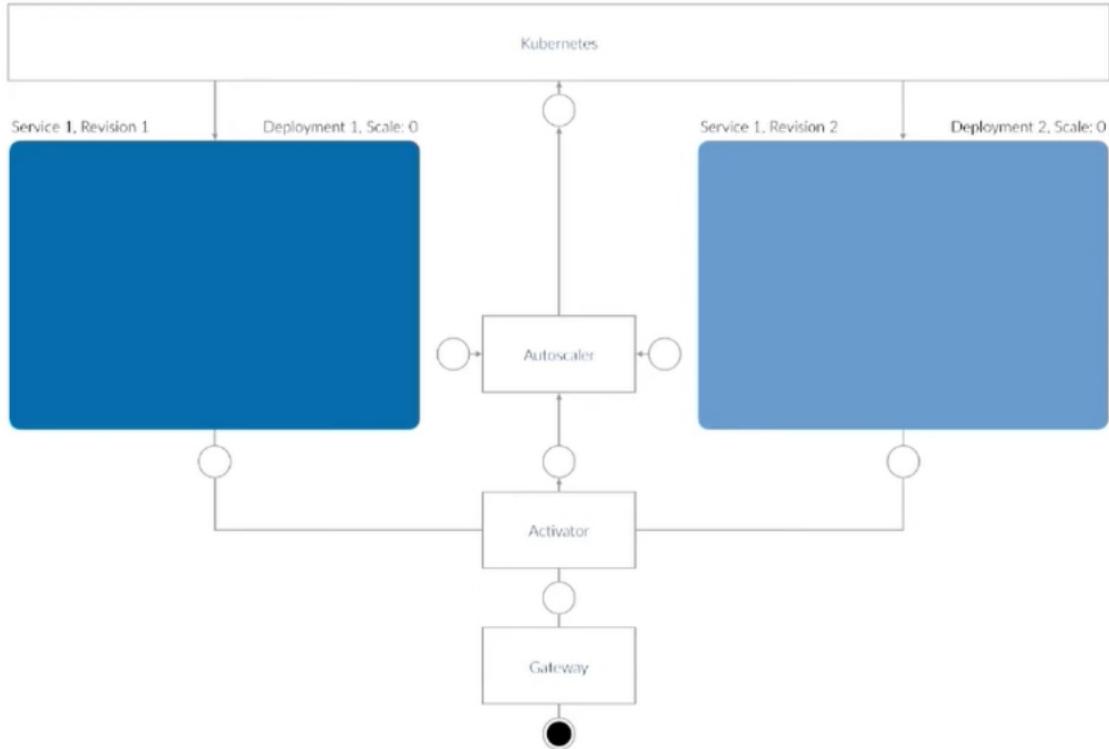




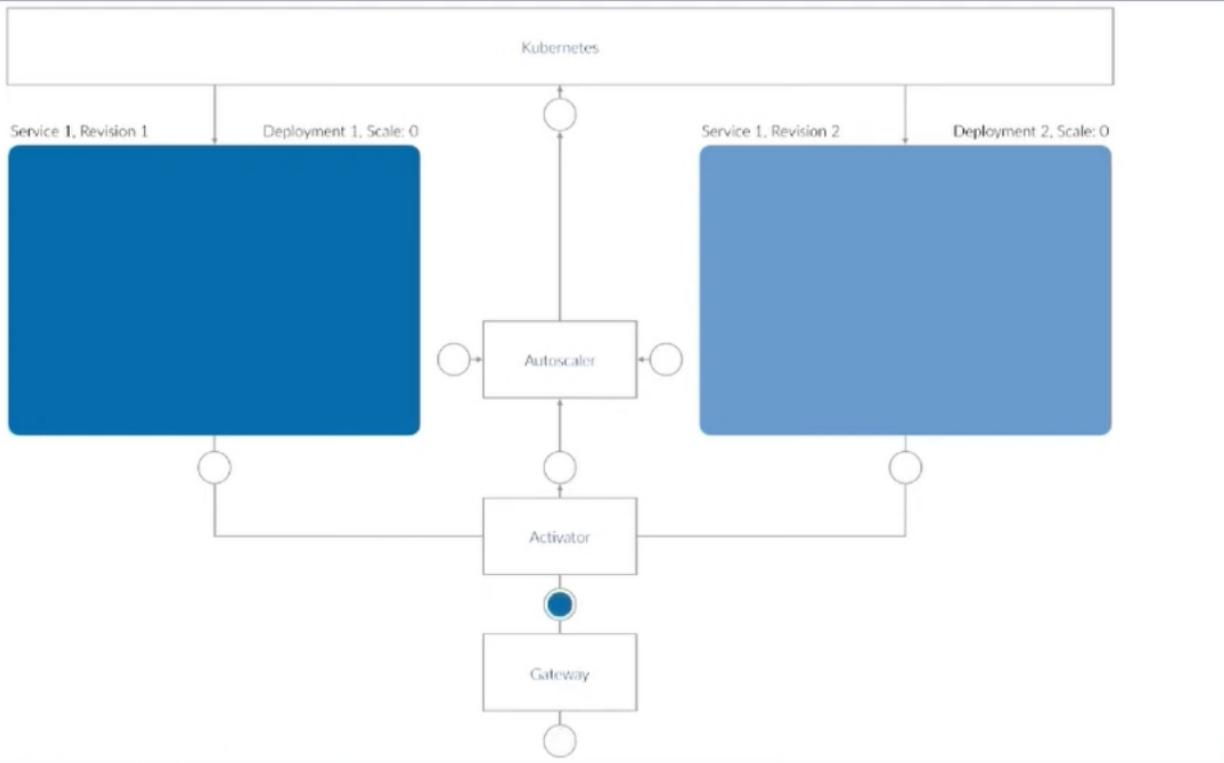


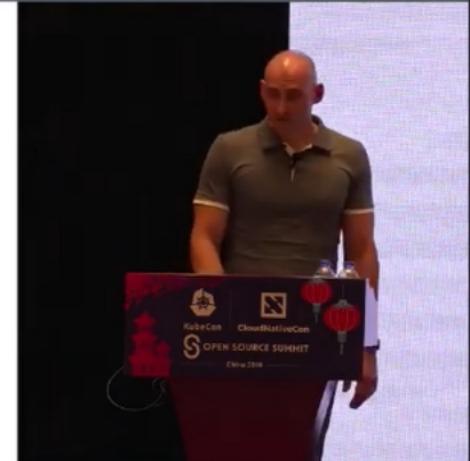
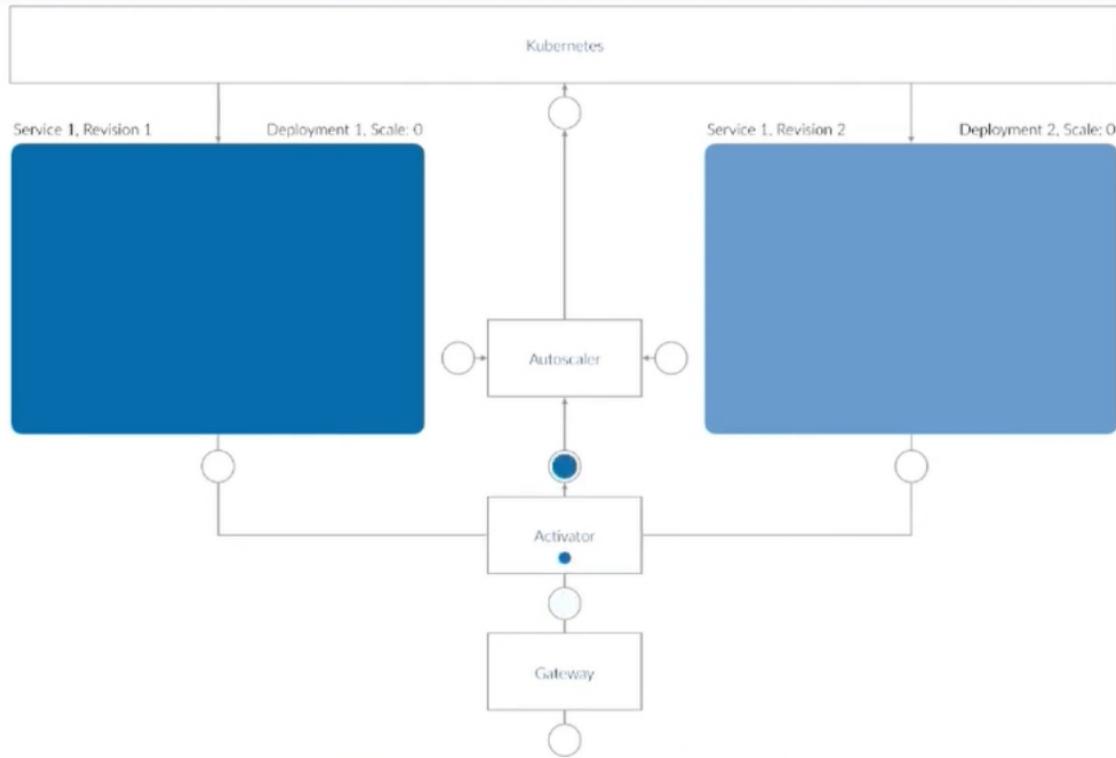


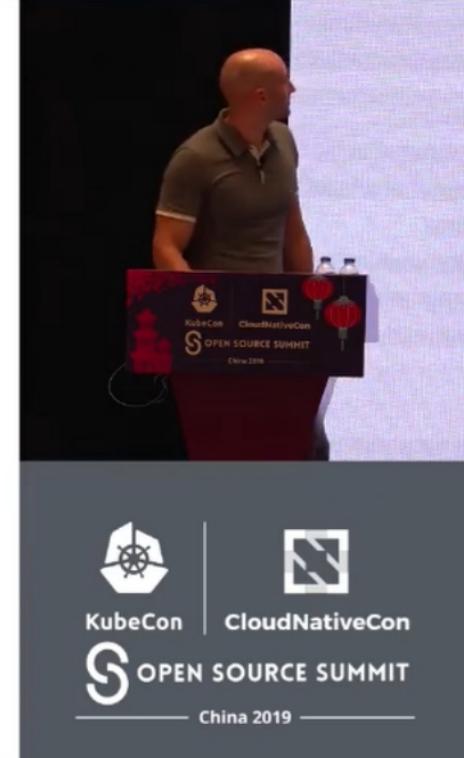
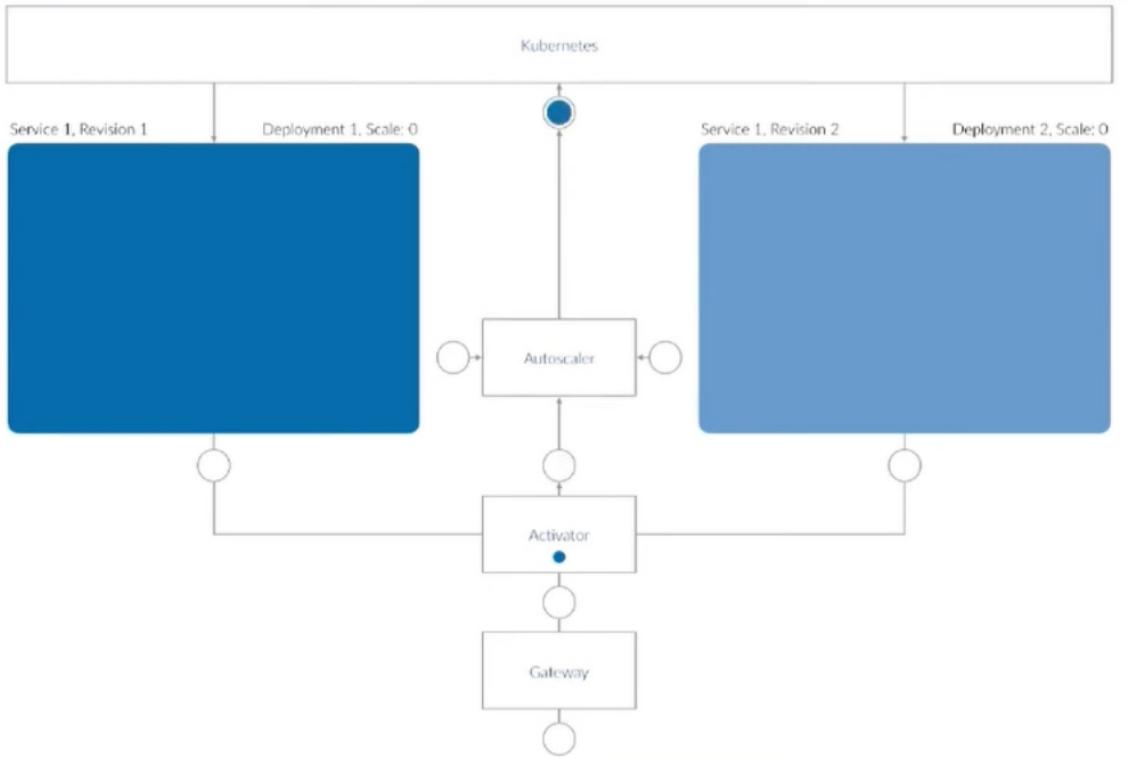


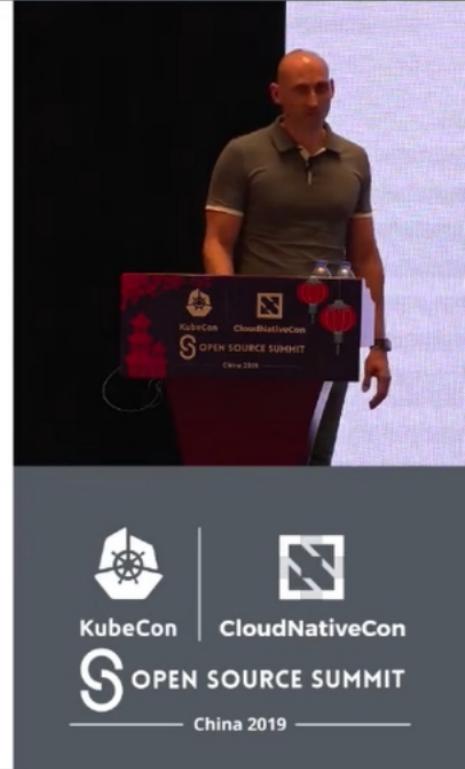
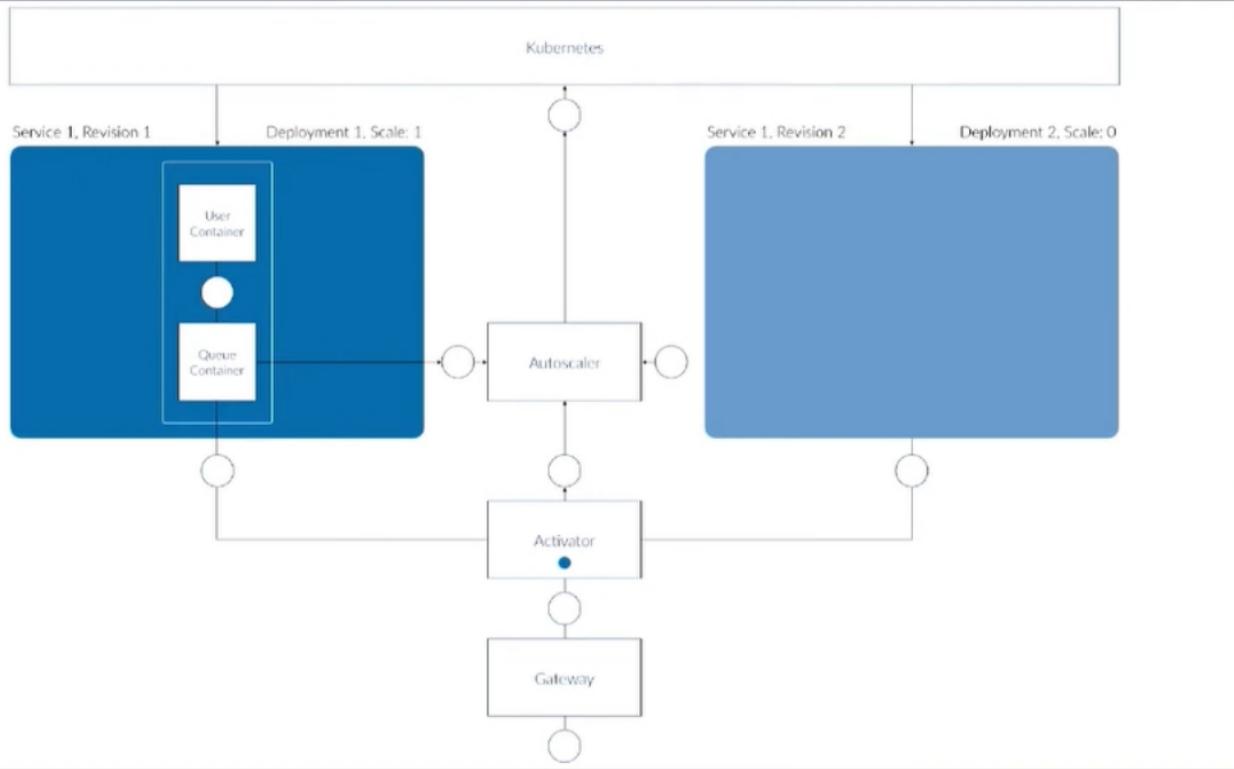


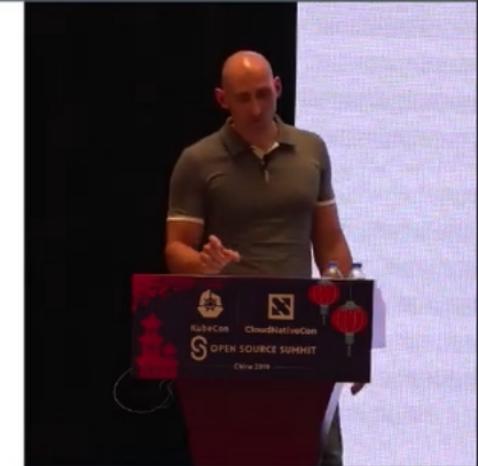
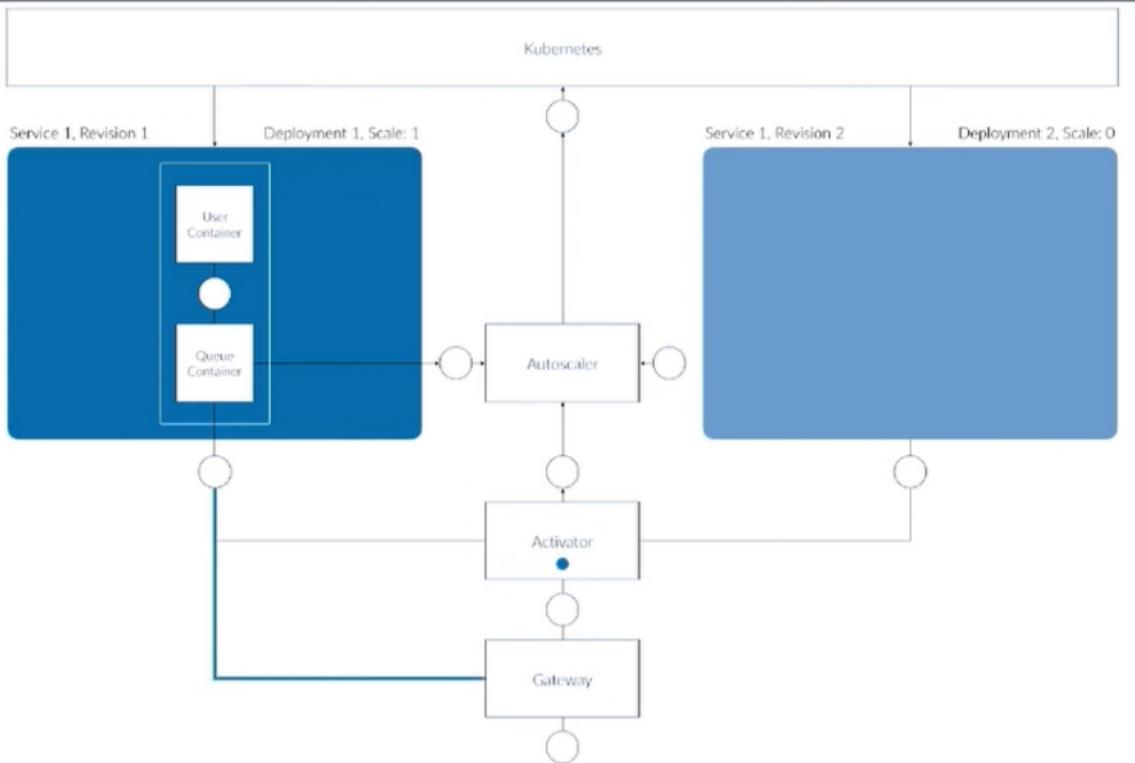
 
KubeCon | CloudNativeCon
 OPEN SOURCE SUMMIT
China 2019

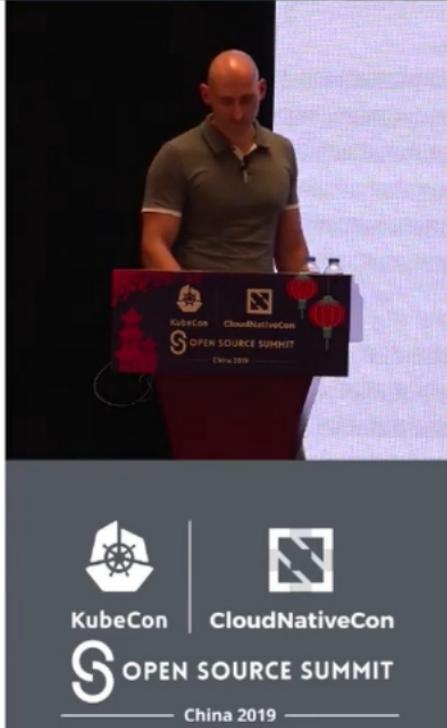
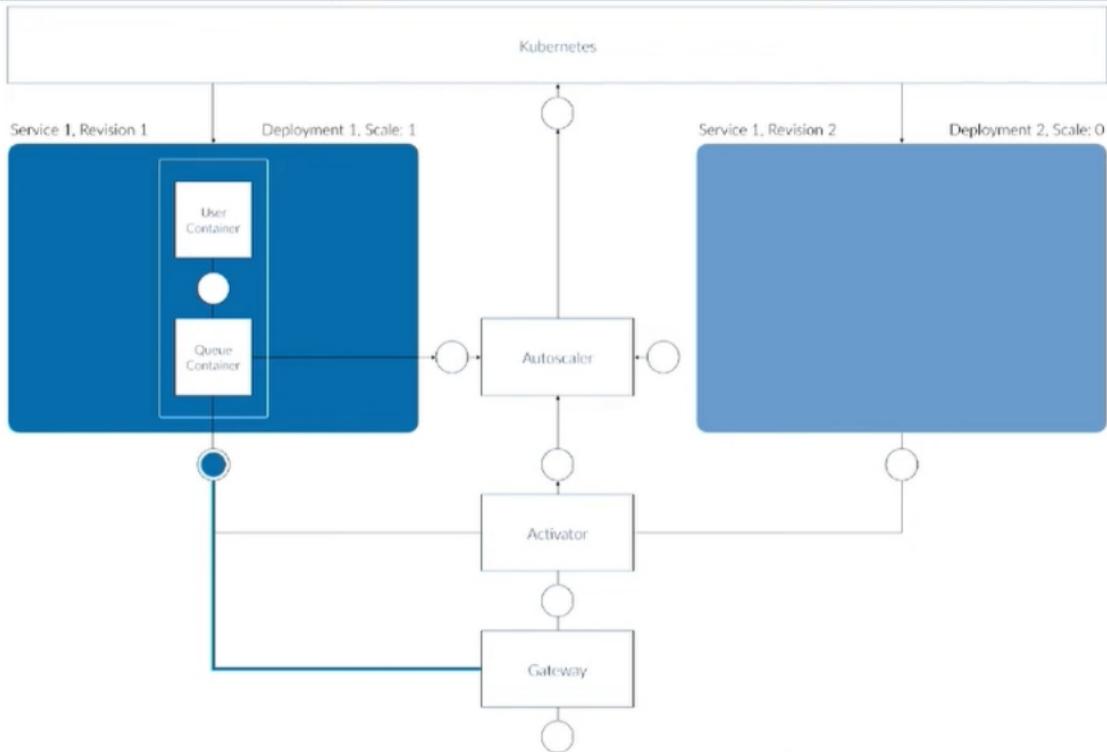


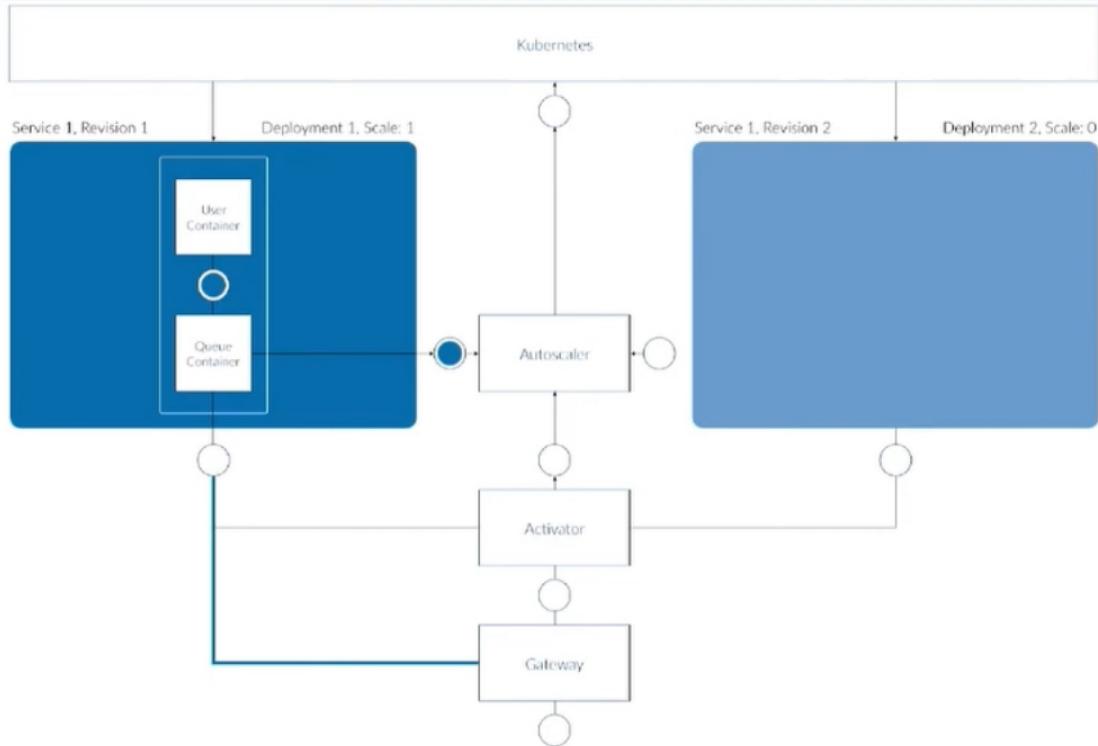




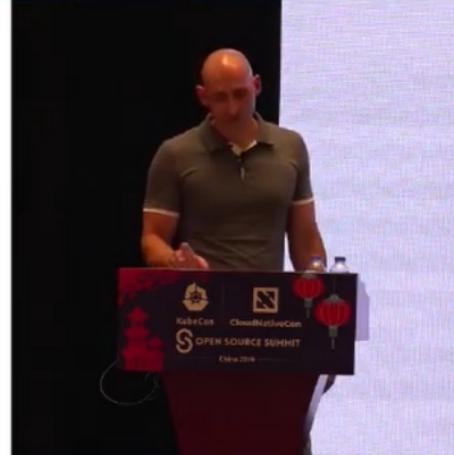
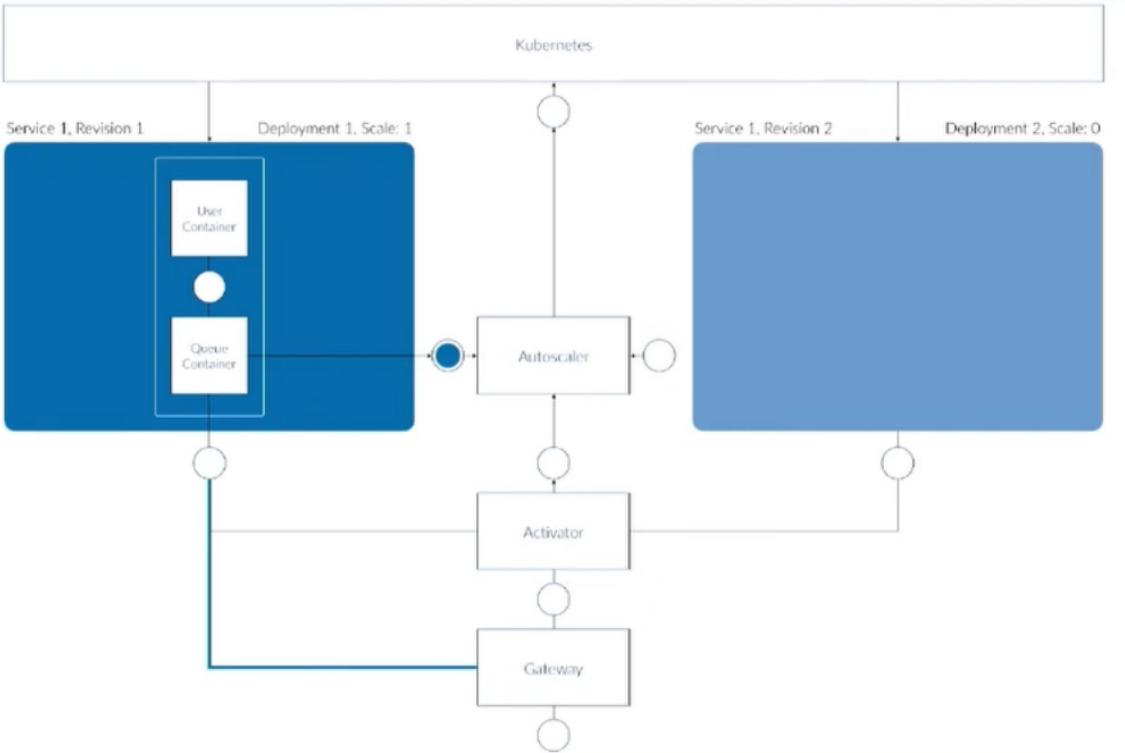




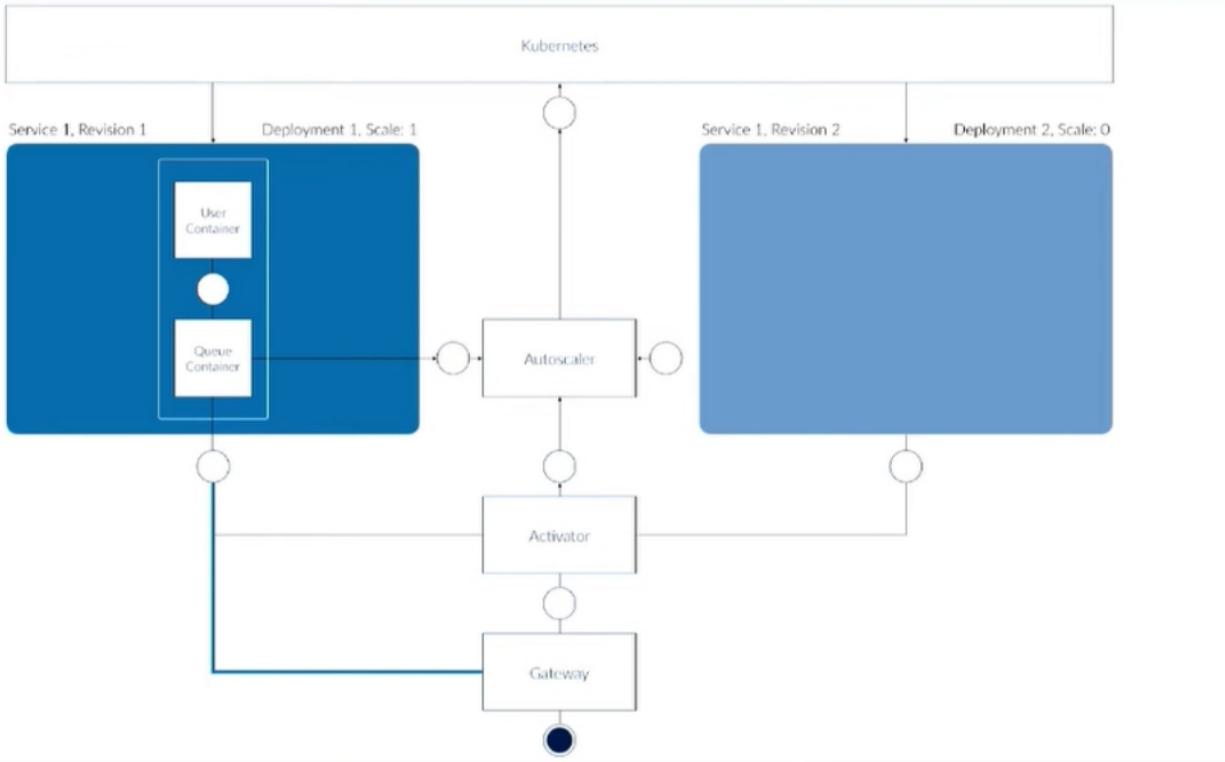


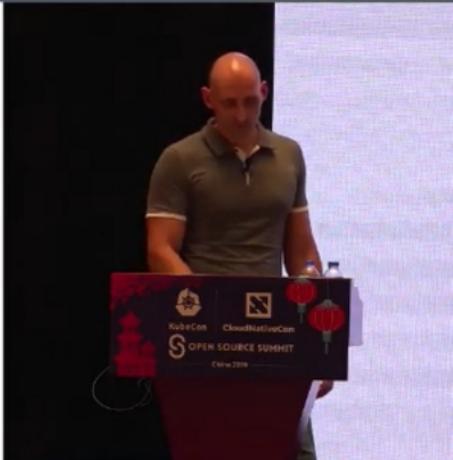
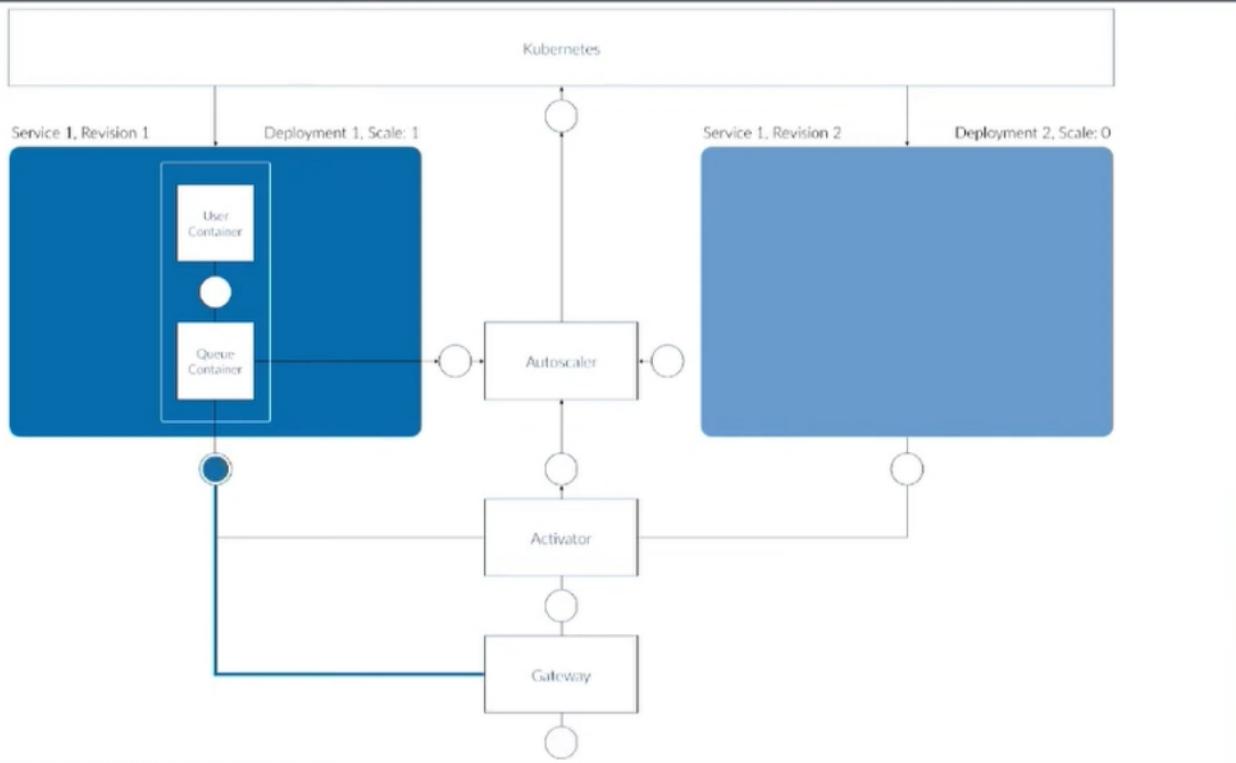


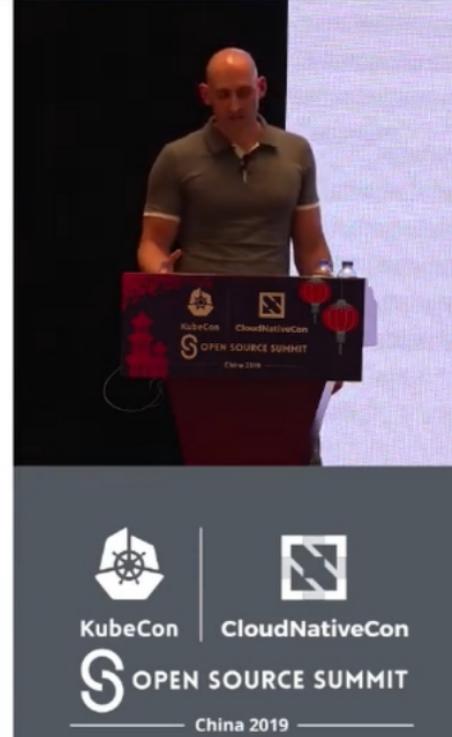
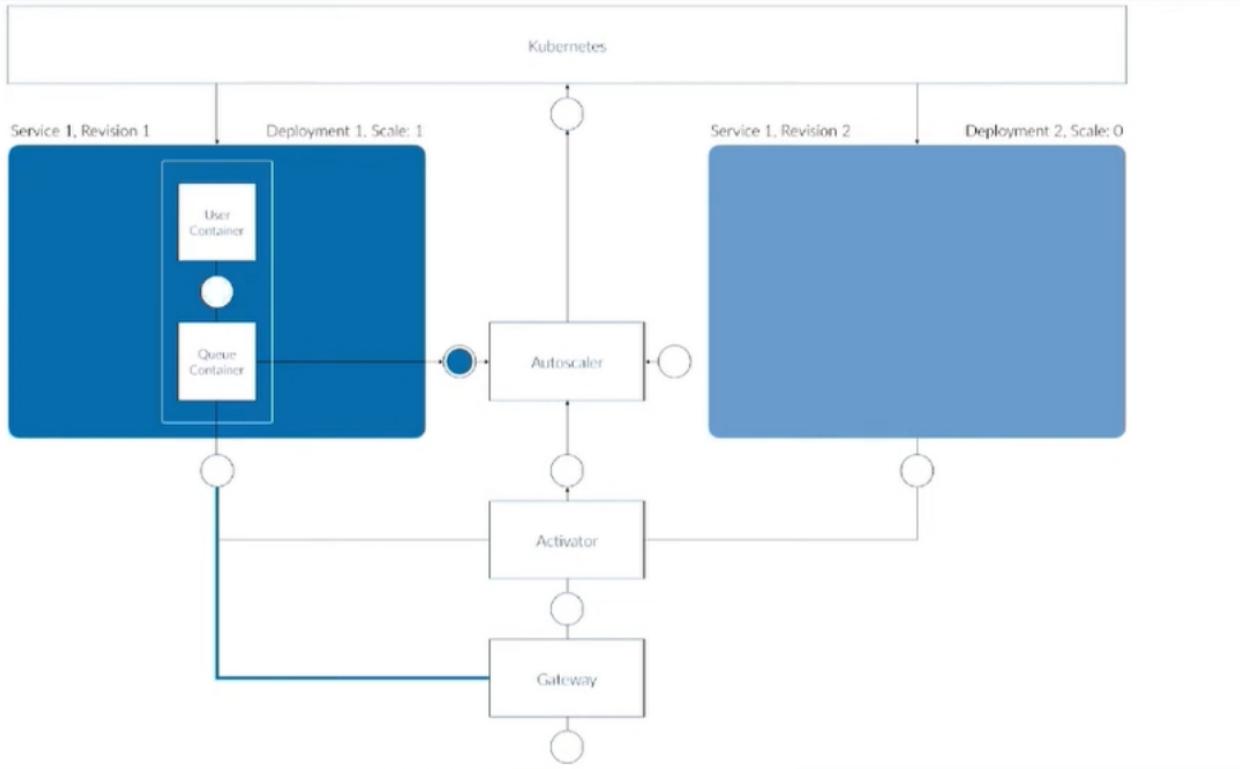
KubeCon | CloudNativeCon
S OPEN SOURCE SUMMIT
China 2019

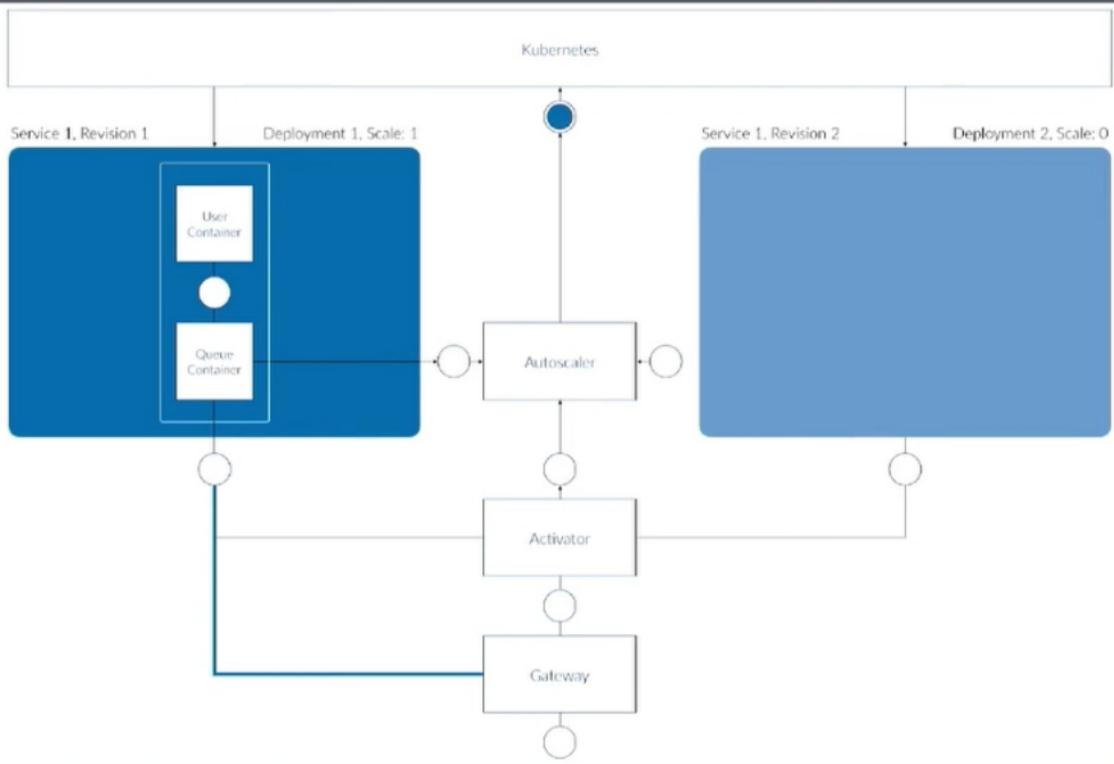


 | 
KubeCon | CloudNativeCon
 OPEN SOURCE SUMMIT
China 2019



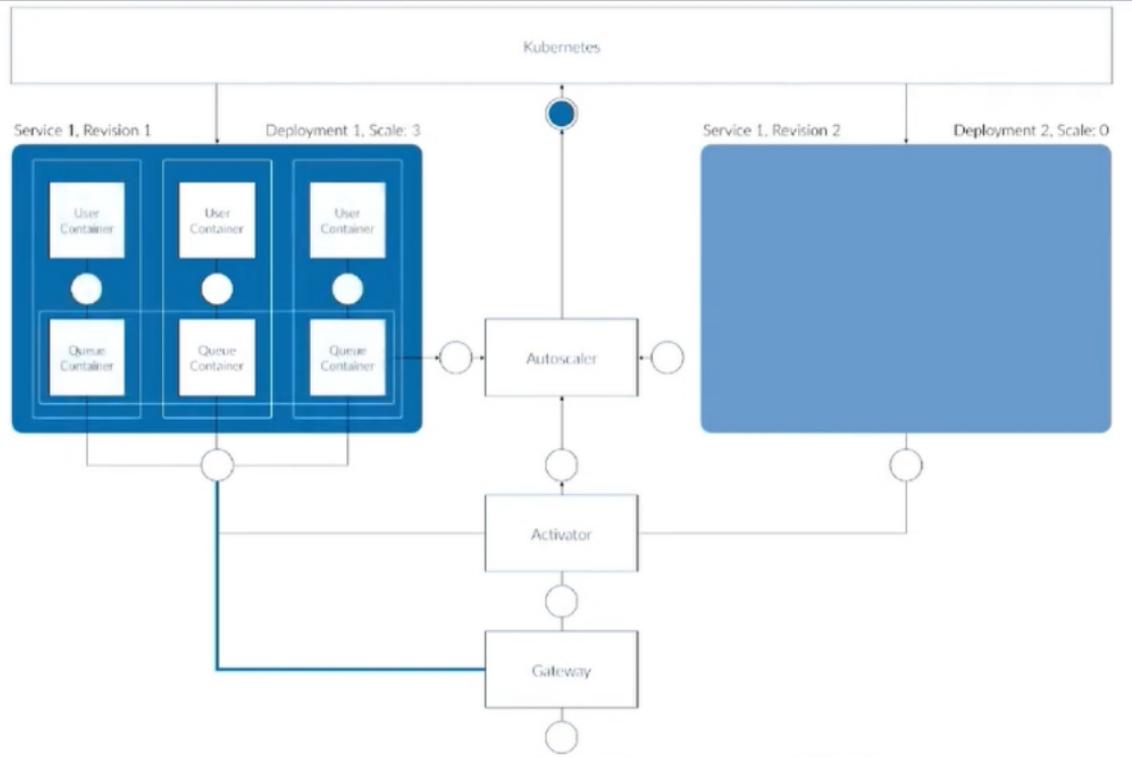


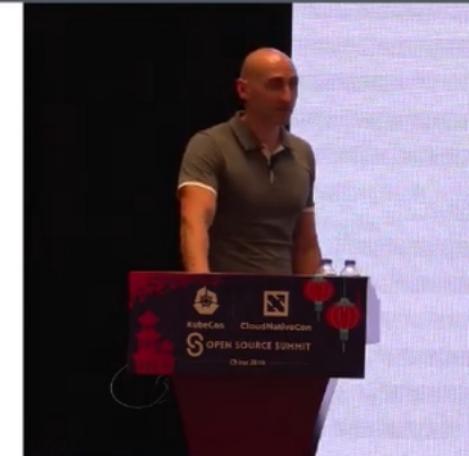
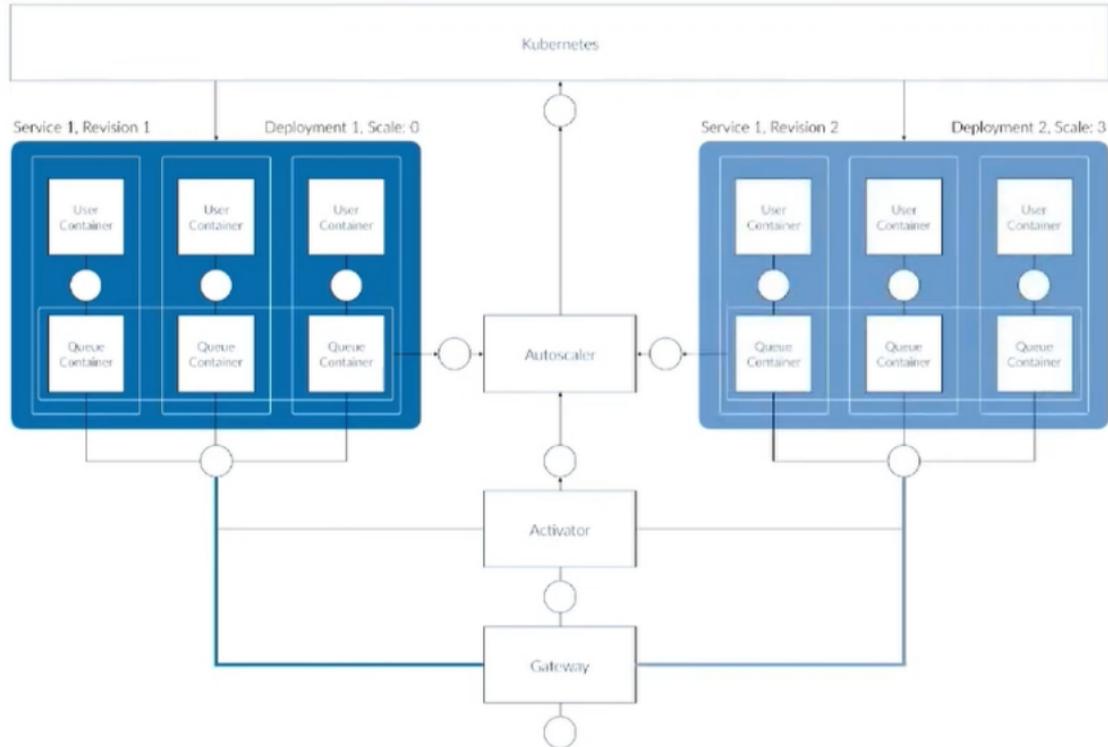






KubeCon + CloudNativeCon
Open Source Summit
China 2019





Conclusion

- Knative is a **Zero Ops Extension**
 - Knative Serving is a Zero Ops Lifecycle Management Extension
 - Knative Serving provides a dedicated abstraction for Microservices
- Knative is a **Serverless Extension**
 - Knative Serving scales from and to zero



Thank You

谢谢

