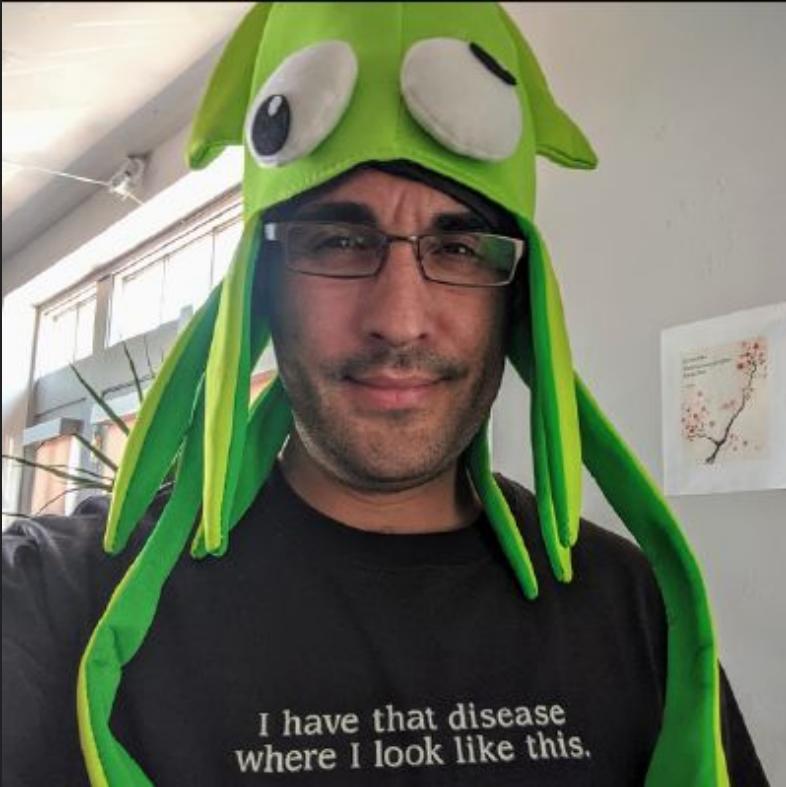


Gateway, gateway or gateway?

A quick and dirty rundown of an overloaded term







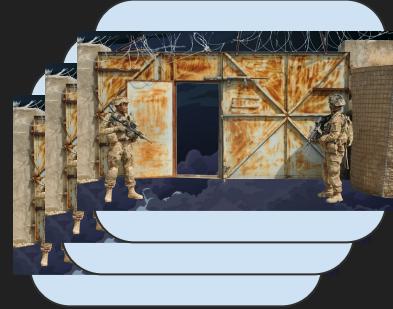


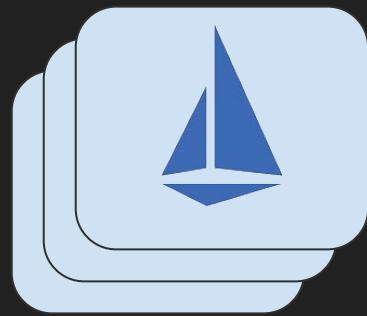
GATEWAY DEPLOYMENT

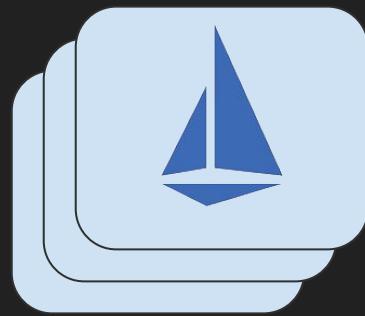


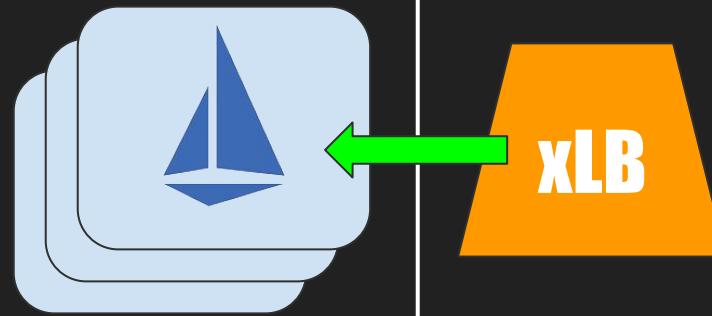


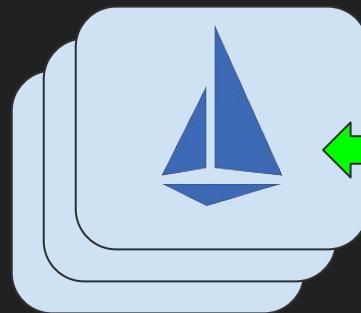






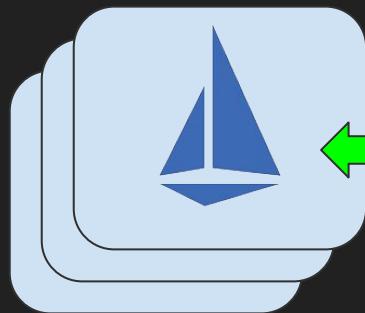






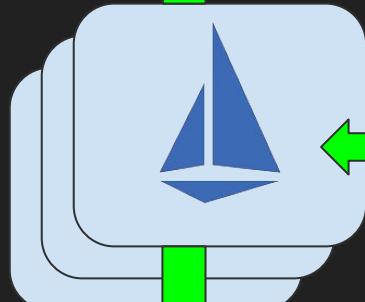
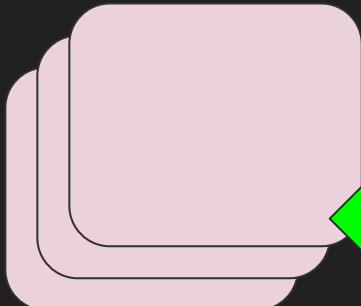
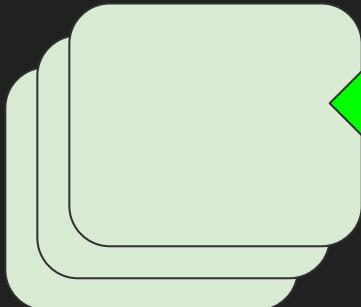
xLB

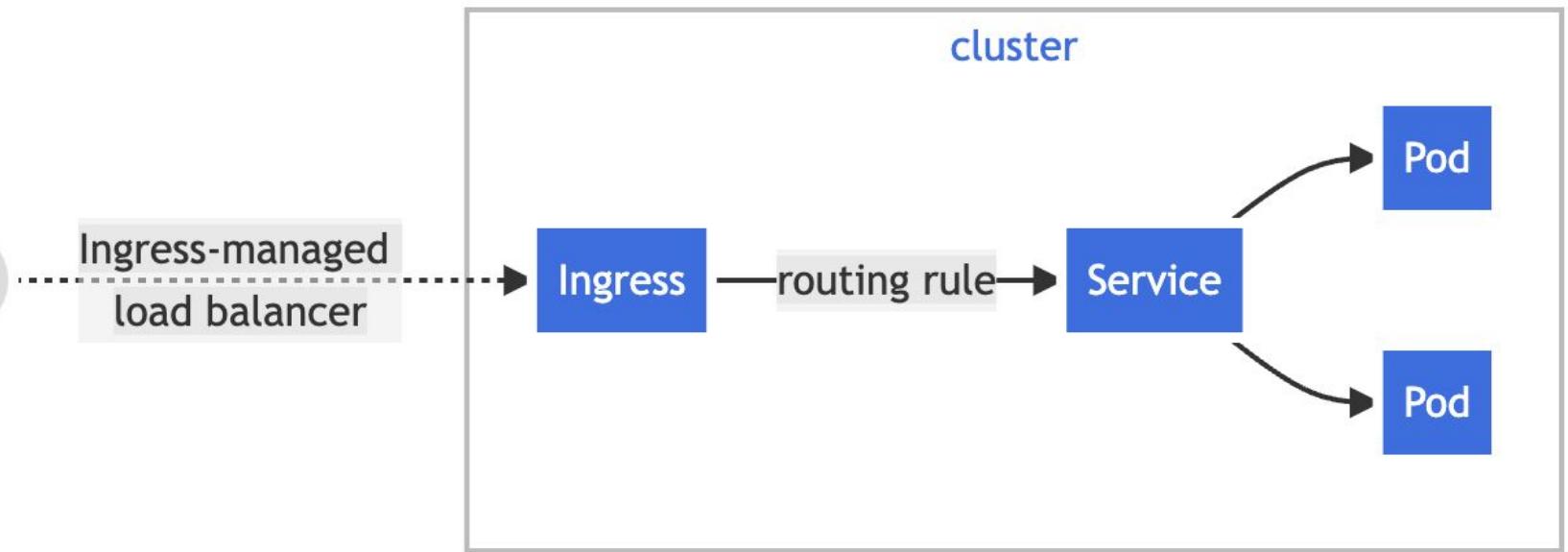




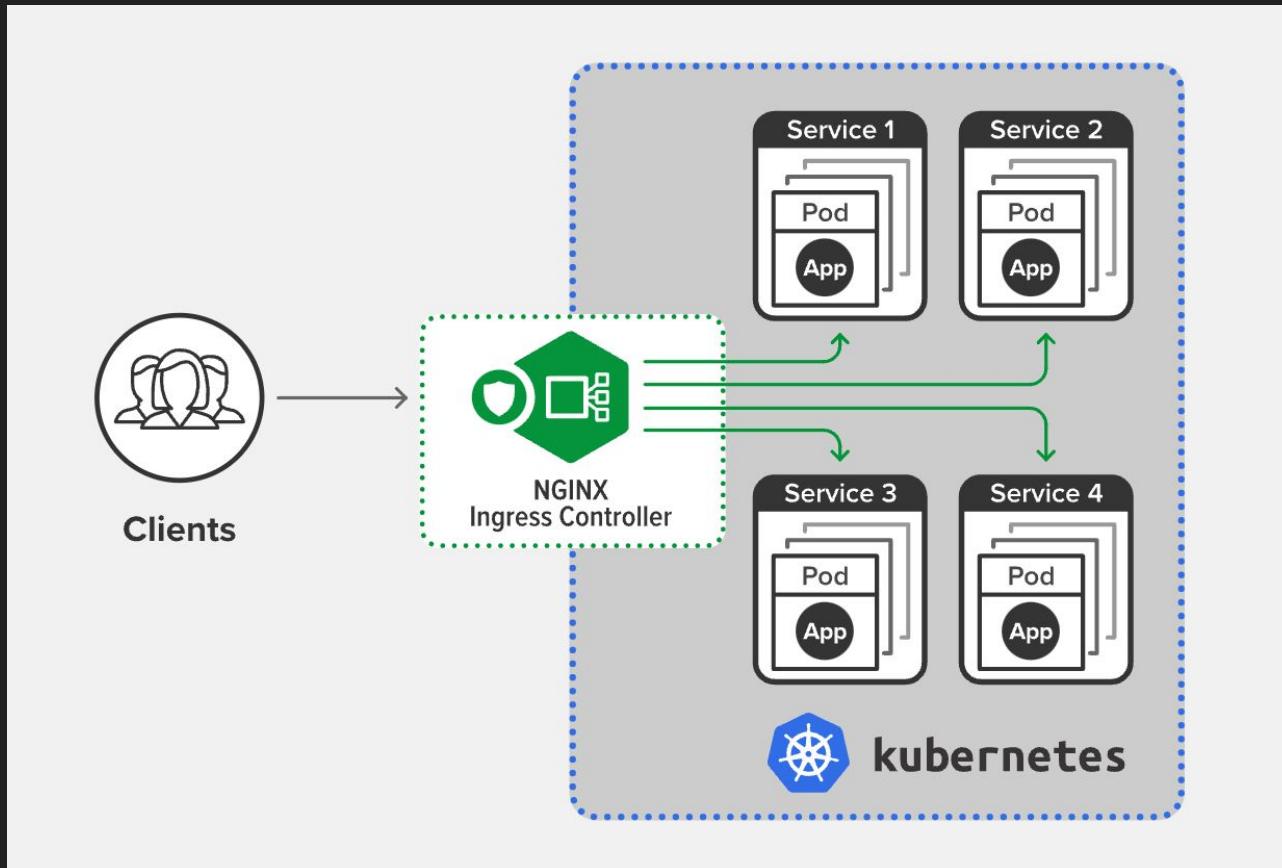
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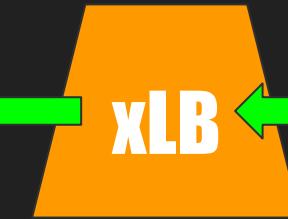
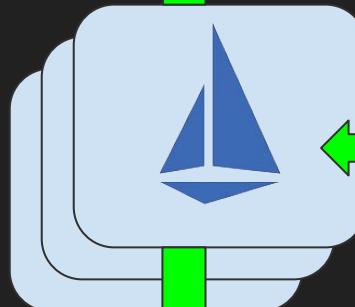
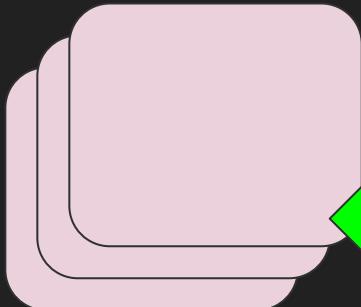
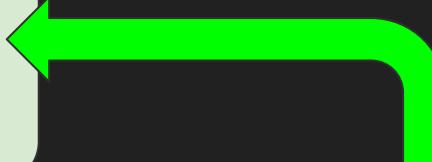
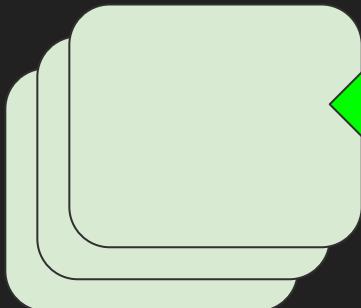




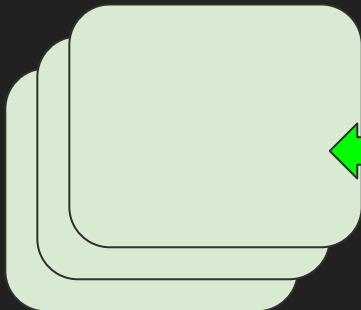
<https://kubernetes.io/docs/concepts/services-networking/ingress/>

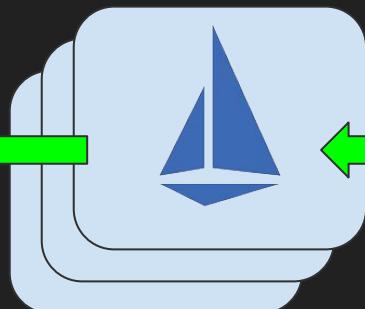
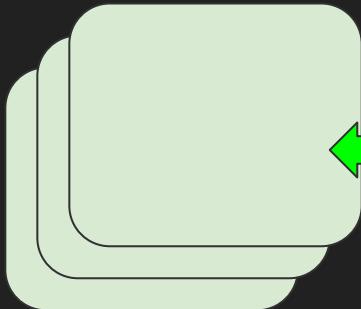


<https://www.nginx.com/products/nginx-ingress-controller/>

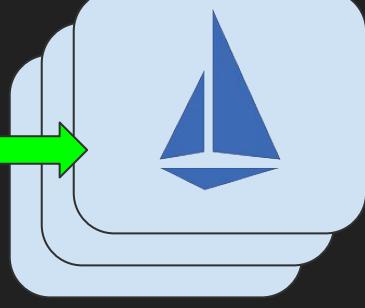
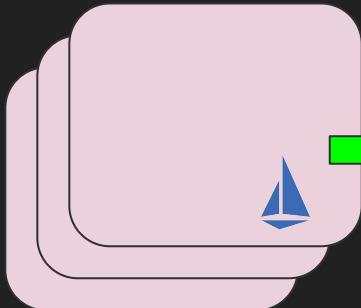


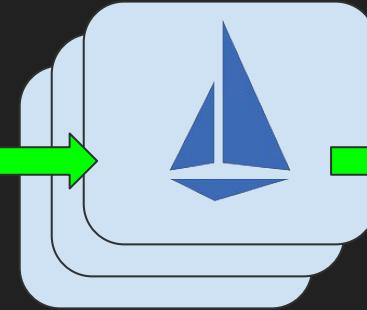
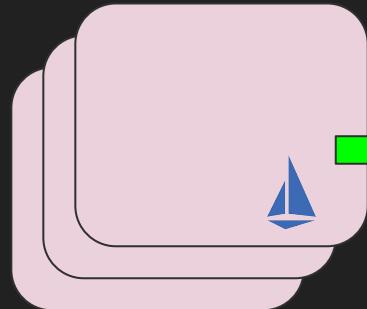
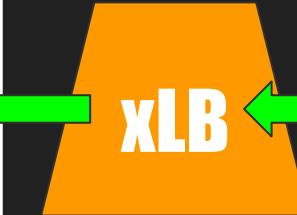
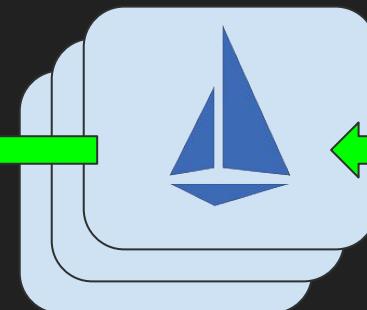
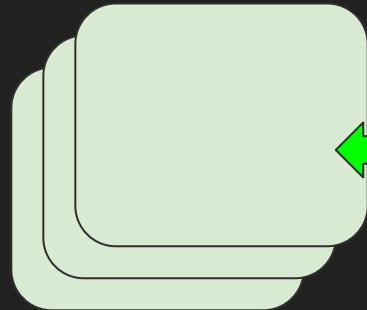
xLB





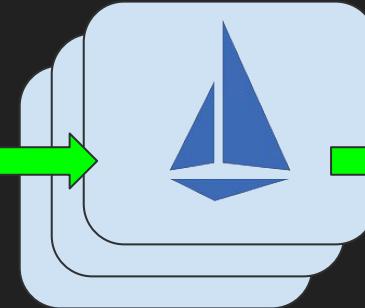
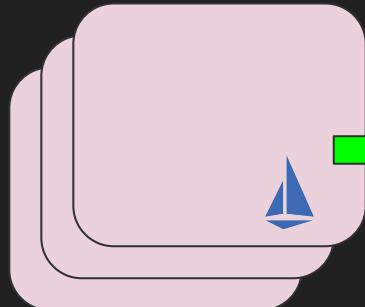
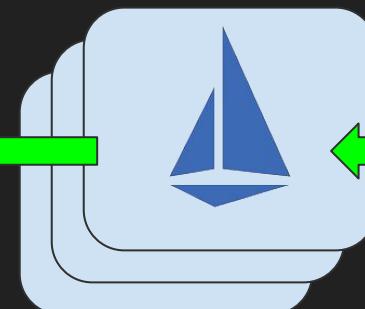
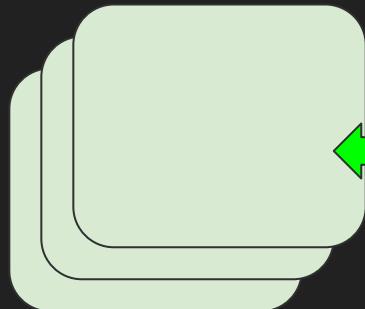
xLB





xLB

NAT
GW



“ingress gateway”

“egress gateway”

“istio gateway”

“ingress gateway”

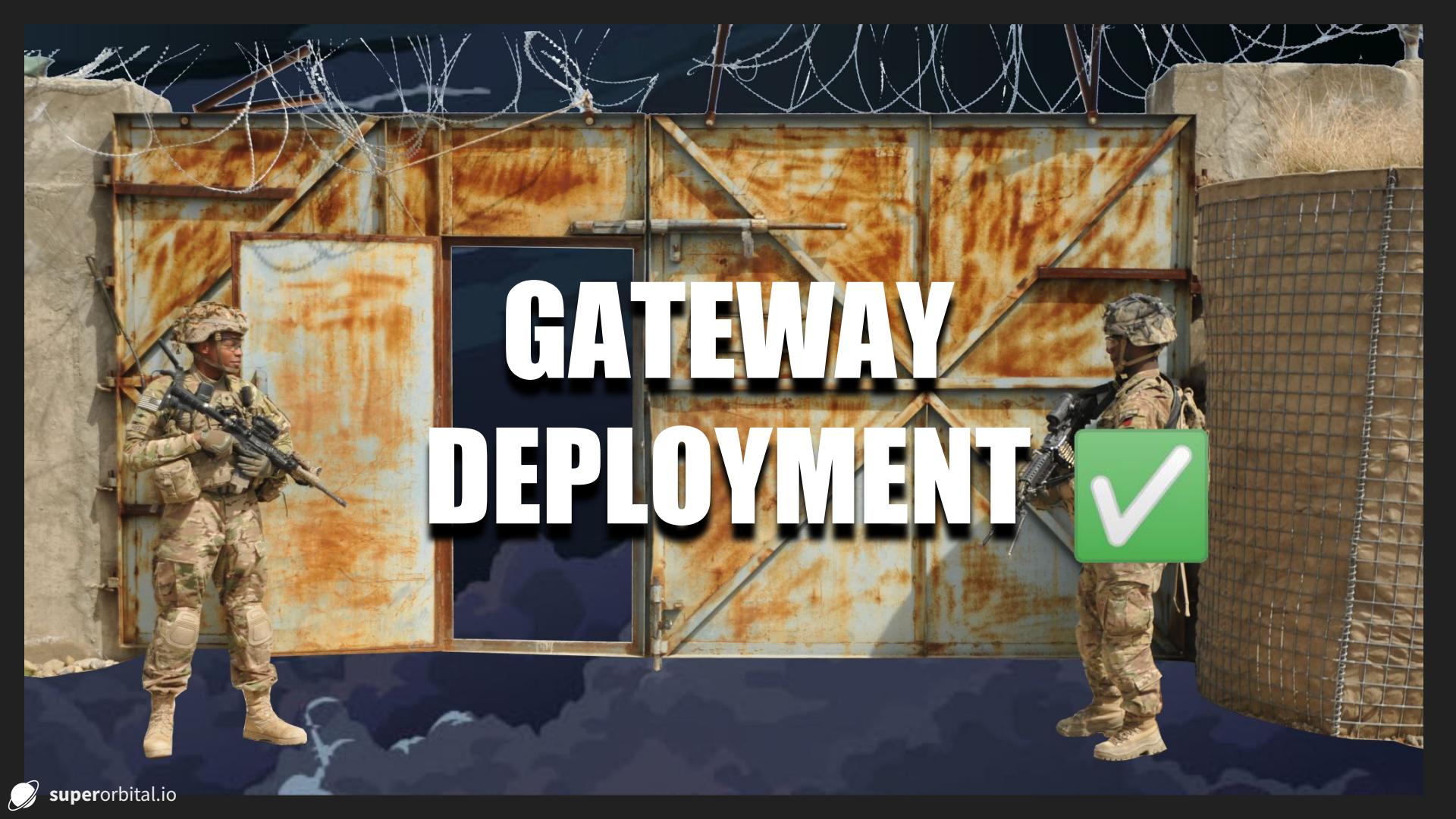
“egress gateway”

“istio gateway”

“*gateway*”



GATEWAY DEPLOYMENT



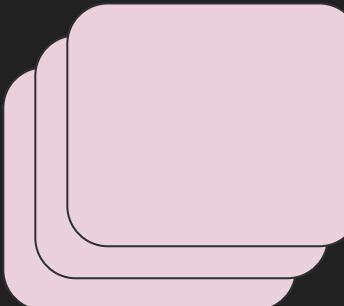
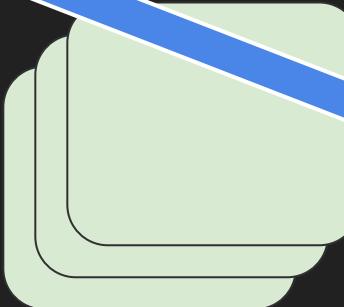
GATEWAY DEPLOYMENT



ISTIO GATEWAY RESOURCE



```
apiVersion: networking.istio.io/v1alpha3
kind: Gateway
metadata:
  name: stargate
spec:
  servers:
    - port:
        number: 443
        name: https
        protocol: HTTPS
      hosts:
        - superorbital.io
      tls:
        mode: SIMPLE
        credentialName: stargate-cert
```



```
apiVersion: networking.istio.io/v1alpha3
kind: Gateway
metadata:
  name: stargate
spec:
  servers:
  - port:
      number: 443
      name: https
      protocol: HTTPS
    hosts:
    - superorbital.io
    tls:
      mode: SIMPLE
      credentialName: stargate-cert
```





istiod



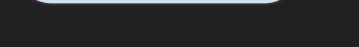
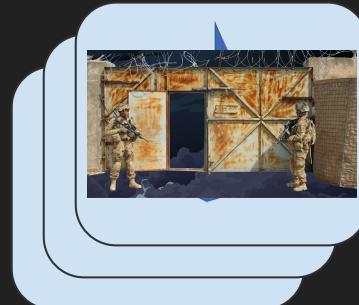
xLB

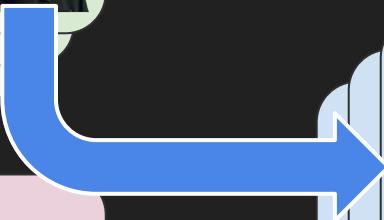




xLB







xLB



```
apiVersion: networking.istio.io/v1alpha3
kind: Gateway
metadata:
  name: stargate
spec:
  servers:
    - port:
        number: 443 ➔
        name: https
        protocol: HTTPS
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```

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apiVersion: networking.istio.io/v1alpha3
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apiVersion: networking.istio.io/v1alpha3
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        mode: SIMPLE
        credentialName: stargate-cert ➔
```

“gateway object”

“gateway CR”

“gateway yaml”

“gateway configuration”

“gateway object”

“gateway CR”

“gateway yaml”

“gateway resource”

“*gateway*”

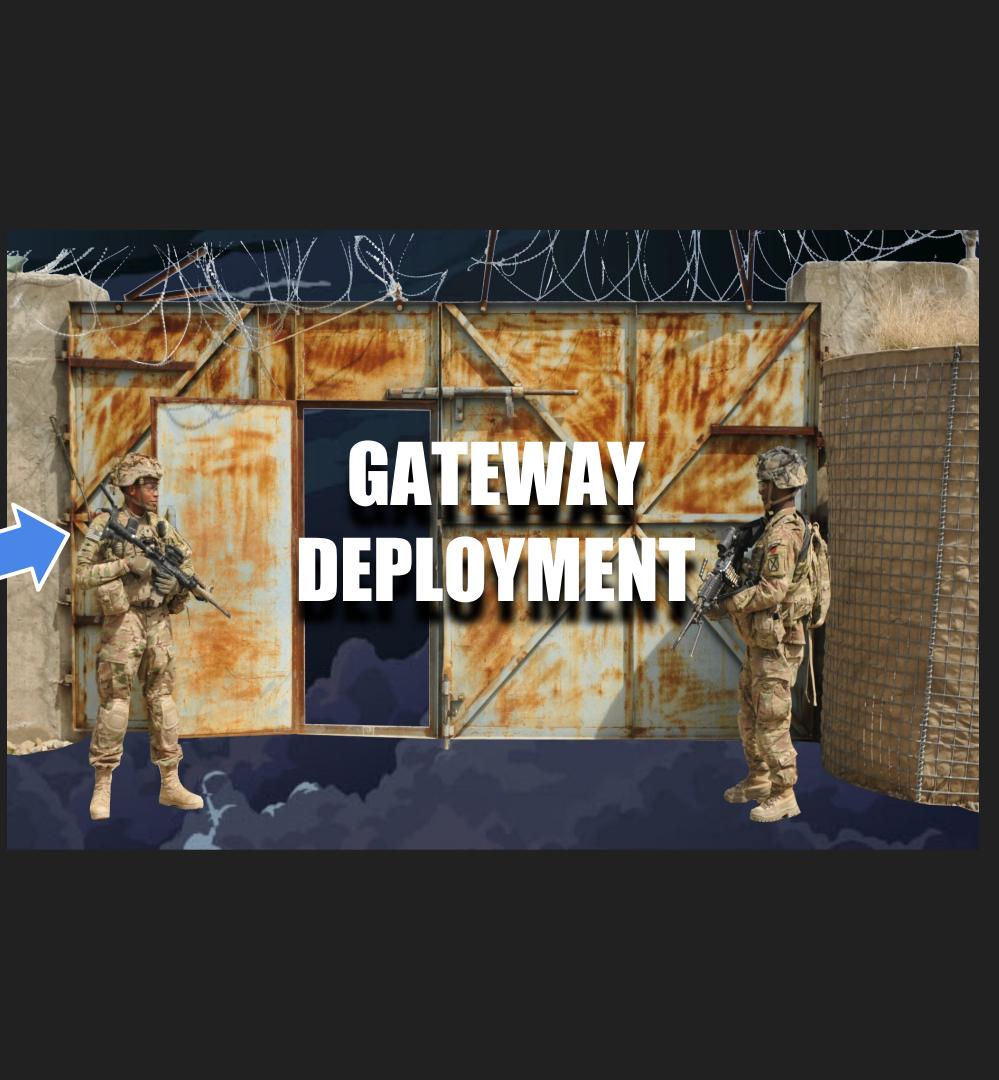
ISTIO GATEWAY RESOURCE

ISTIO GATEWAY RESOURCE





**ISTIO
GATEWAY
RESOURCE**

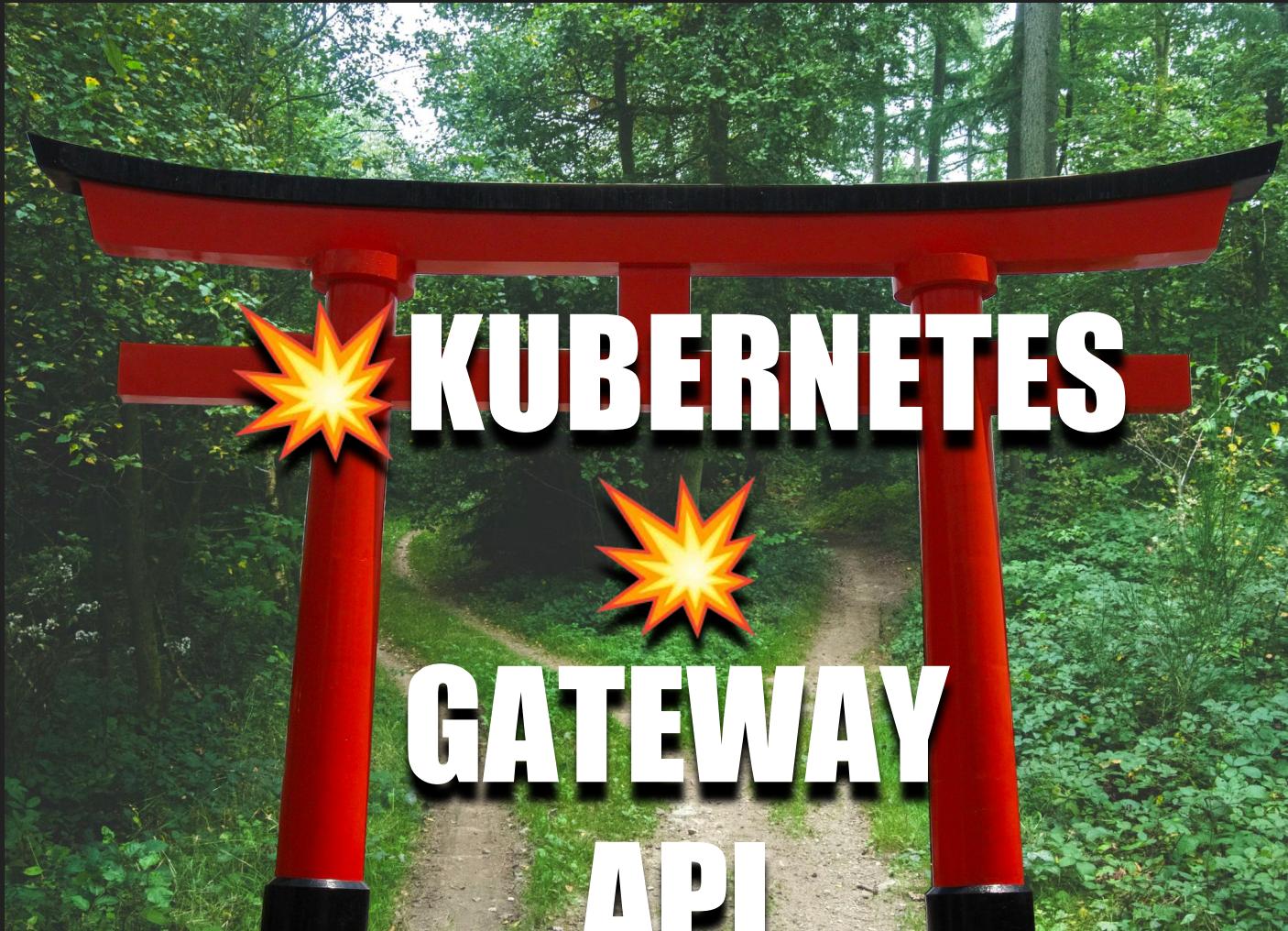


**GATEWAY
DEPLOYMENT**



A photograph of a traditional Japanese red torii gate standing in a dense green forest. The gate is a simple structure with two vertical pillars and a horizontal crossbar. A dirt path leads through the gate into the woods. The background is filled with various shades of green from the surrounding trees and foliage.

KUBERNETES GATEWAY API





Kubernetes Blog

Search



Evolving Kubernetes networking with the Gateway API

Thursday, April 22, 2021

Authors: Mark Church (Google), Harry Bagdi (Kong), Daneyon Hanson (Red Hat), Nick Young (VMware), Manuel Zapf (Traefik Labs)

The Ingress resource is one of the many Kubernetes success stories. It created a [diverse ecosystem of Ingress controllers](#) which were used across hundreds of thousands of clusters in a standardized and consistent way. This standardization helped users adopt Kubernetes. However, five years after the creation of Ingress, [there are signs of fragmentation into different but strikingly similar CRDs and](#)



Gateway API



All

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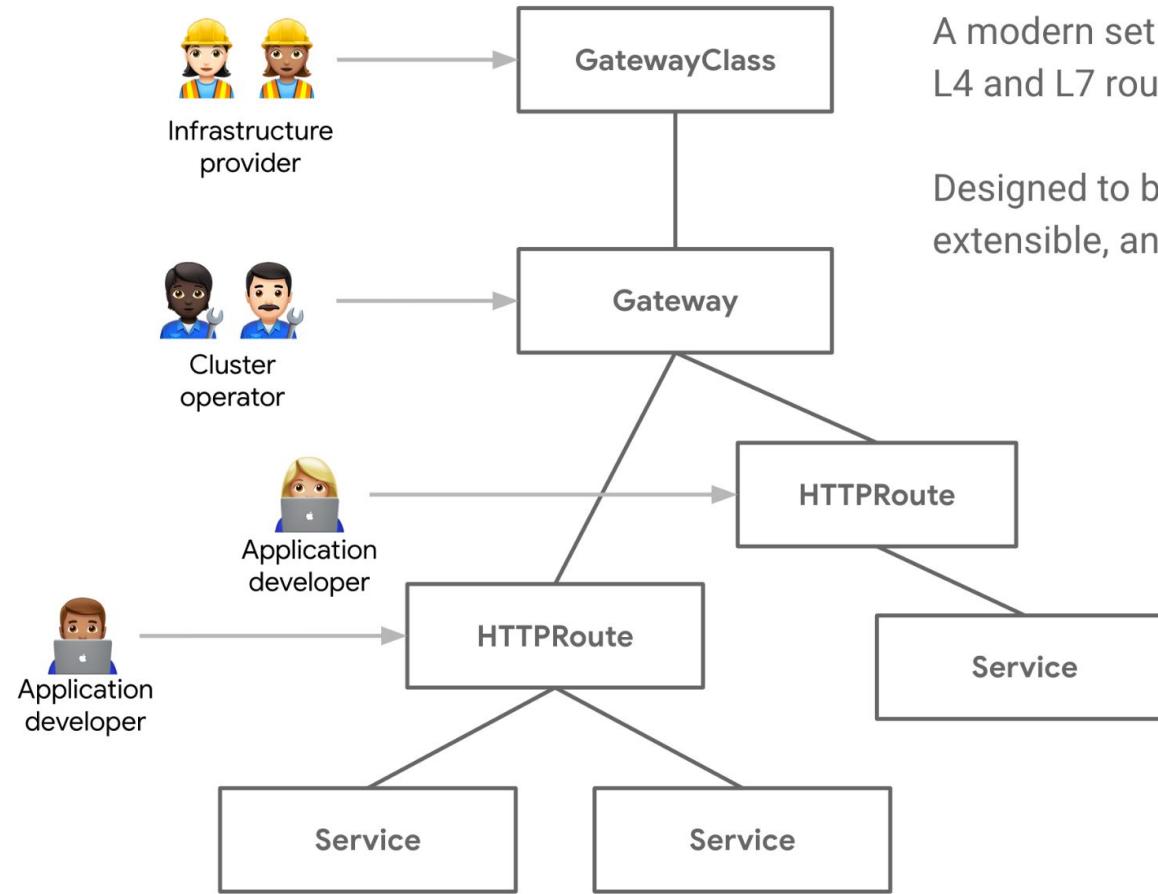
About 270,000,000 results (0.58 seconds)

Did you mean: *API gateway*

An API gateway is an API management tool that sits between a client and a collection of backend services. An API gateway acts as a reverse proxy to accept all application programming interface (API) calls, aggregate the various services required to fulfill them, and return the appropriate result.

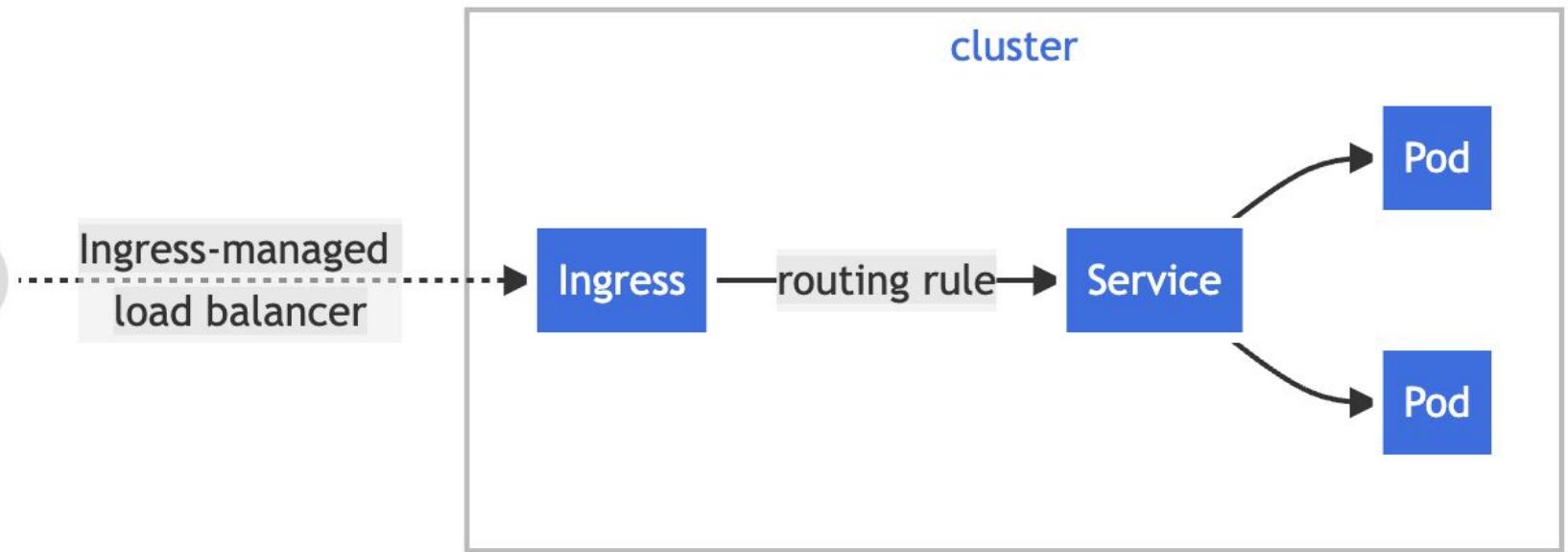


superorbital.io

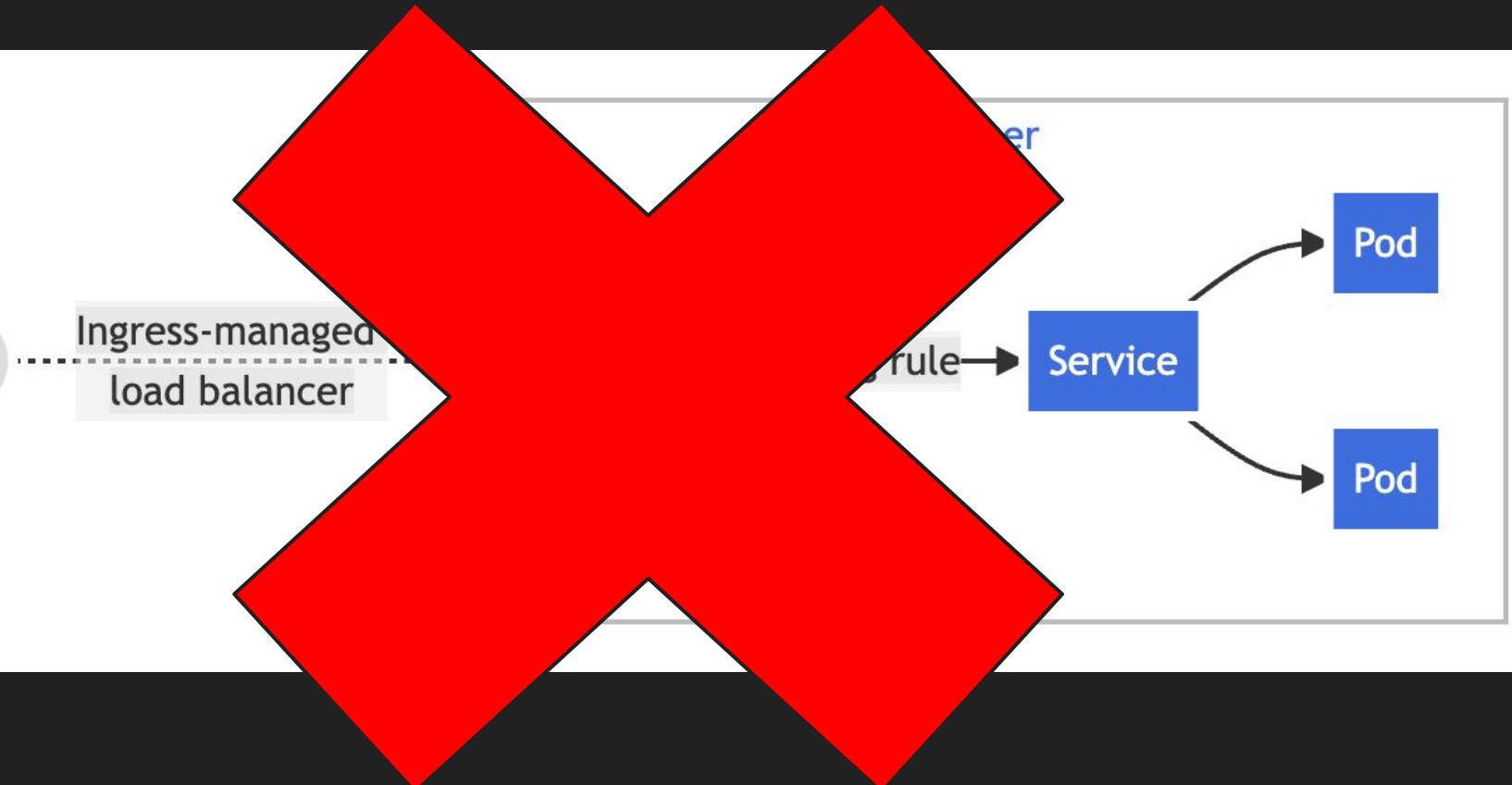


A modern set of APIs for deploying L4 and L7 routing in Kubernetes

Designed to be generic, expressive, extensible, and role-oriented



<https://kubernetes.io/docs/concepts/services-networking/ingress/>



<https://kubernetes.io/docs/concepts/services-networking/ingress/>



YouTube apps

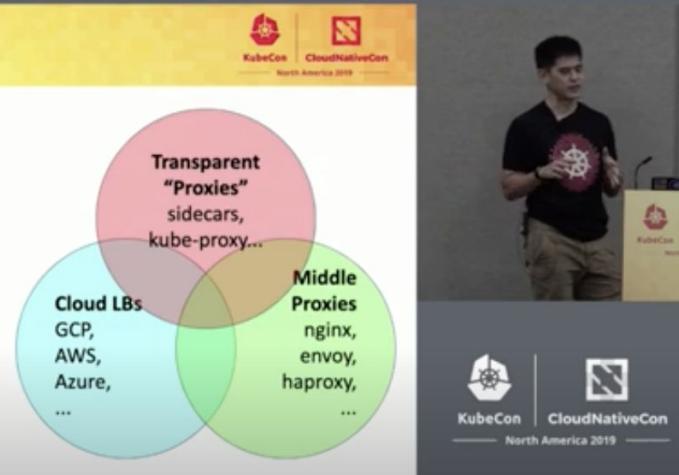
Evolving Landscape

Early resources design were “self-service” oriented:

- Few tenants
- Empowered dev owns whole deployment

Now, we have:

- Multiple team/roles interactions
- Potentially multiple co-existing implementations



13:21 / 34:35 • Evolin...



Evolving the Kubernetes Ingress APIs to GA and Beyond - Christopher M Luciano, IBM



WOULD YOU LIKE TO KNOW MORE?

<https://www.youtube.com/watch?v=cduG0FrjdJA>

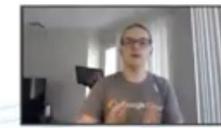


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Kubernetes Gateway APIs

John Howard / @howardjohn / Google



#IstioCon



0:09 / 10:17 • Chapters >



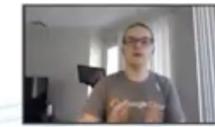
#IstioCon2021

Kubernetes Gateway APIs and the future of Istio networking APIs



WOULD YOU LIKE TO KNOW MORE?

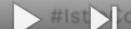
<https://www.youtube.com/watch?v=9BOlFlpkZpk>



Kubernetes Gateway APIs



Full* Istio support!



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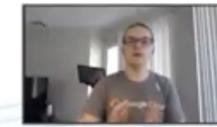


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Kubernetes Gateway APIs



Full* Istio support!



#IstioCon



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...

*alpha

<https://www.youtube.com/watch?v=9BOlFlpkZpk>



Introduction



What is the Gateway API?

Gateway API is an open source project managed by the [SIG-NETWORK](#) community. It is a collection of resources that model service networking in Kubernetes. These resources - `GatewayClass`, `Gateway`, `HTTPRoute`, `TCPRoute`, `Service`, etc - aim to evolve Kubernetes service networking through expressive, extensible, and role-oriented interfaces that are implemented by many vendors and have broad industry support.

Note: This project was previously named "Service APIs" until being renamed to "Gateway API" in February 2021.



Introduction



What is the Gateway API?

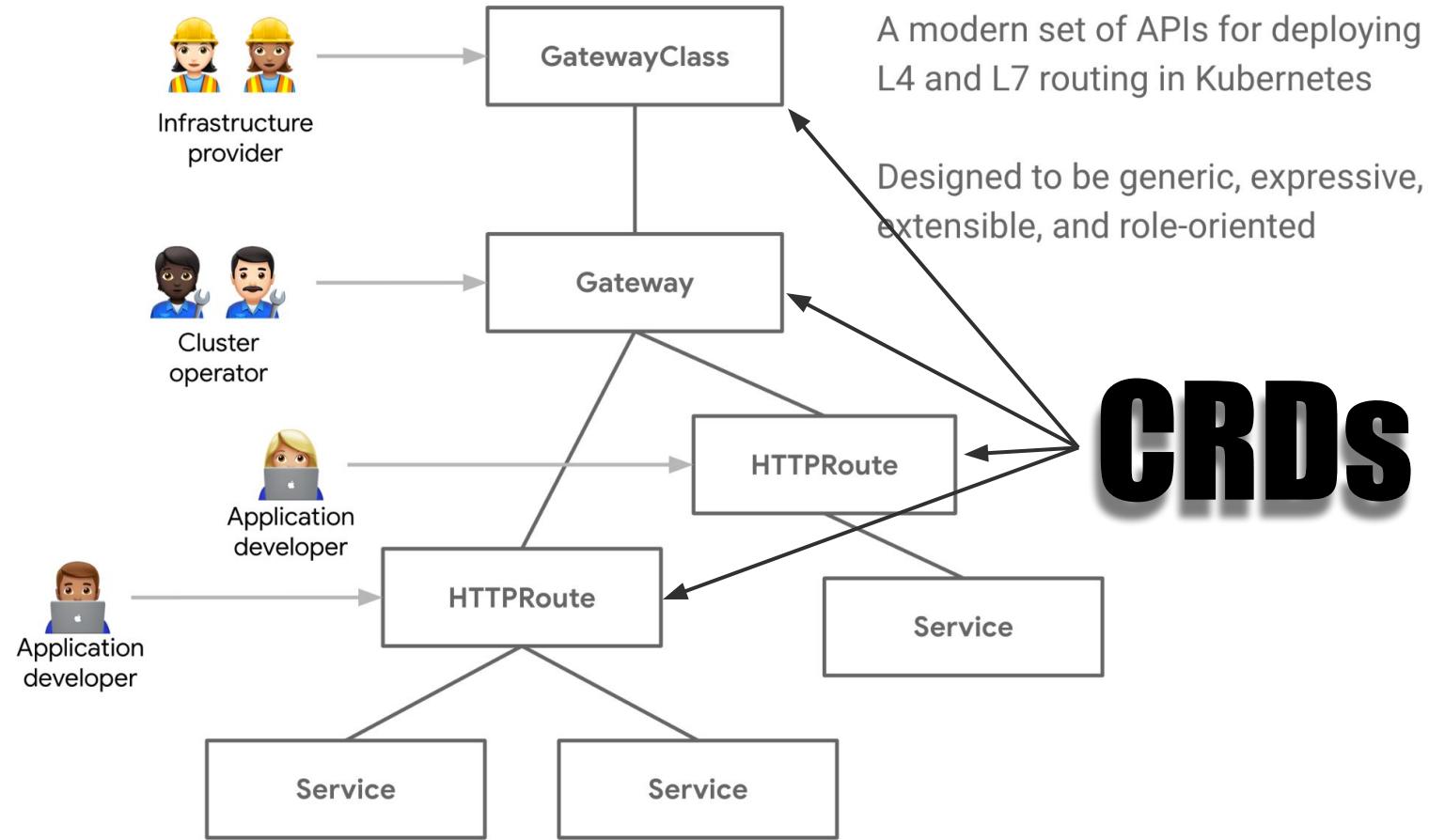
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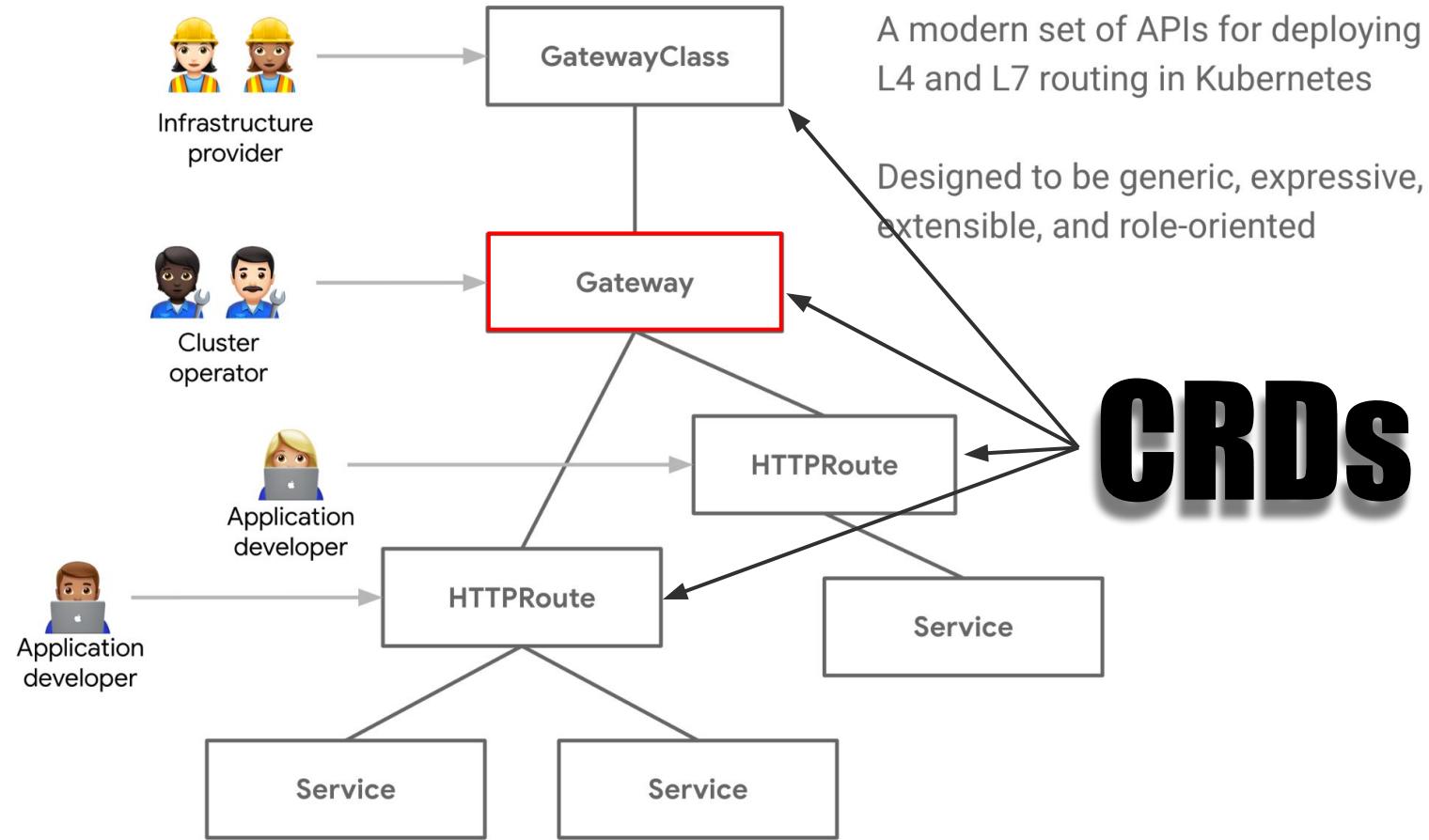
previously named "Service APIs" until being renamed to "Gateway API"



A modern set of APIs for deploying L4 and L7 routing in Kubernetes

Designed to be generic, expressive, extensible, and role-oriented

CRDs





```
apiVersion: networking.istio.io/v1alpha3
kind: Gateway
metadata:
  name: stargate
spec:
  servers:
    - port:
        number: 443
        name: https
        protocol: HTTPS
      hosts:
        - superorbital.io
      tls:
        mode: SIMPLE
        credentialName: stargate-cert
```



```
apiVersion: gateway.networking.k8s.io/v1alpha2
kind: Gateway
metadata:
  name: star-dot-stargate
spec:
  gatewayClassName: cloud-provider-default
  listeners:
    - name: https
      protocol: HTTPS
      port: 443
      hostname: superorbital.io
      tls:
        certificateRefs:
          - kind: Secret
            group: ""
            name: star-dot-stargate-cert
```



```
apiVersion: networking.istio.io/v1alpha3
kind: Gateway
metadata:
  name: stargate
spec:
  servers:
    - port:
        number: 443
        name: https
        protocol: HTTPS
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      tls:
        mode: SIMPLE
        credentialName: stargate-cert
```



```
apiVersion: gateway.networking.k8s.io/v1alpha2
kind: Gateway
metadata:
  name: star-dot-stargate
spec:
  gatewayClassName: cloud-provider-default
  listeners:
    - name: https
      protocol: HTTPS
      port: 443
      hostname: superorbital.io
      tls:
        certificateRefs:
          - kind: Secret
            group: ""
            name: star-dot-stargate-cert
```



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Site reliability engineer in United States

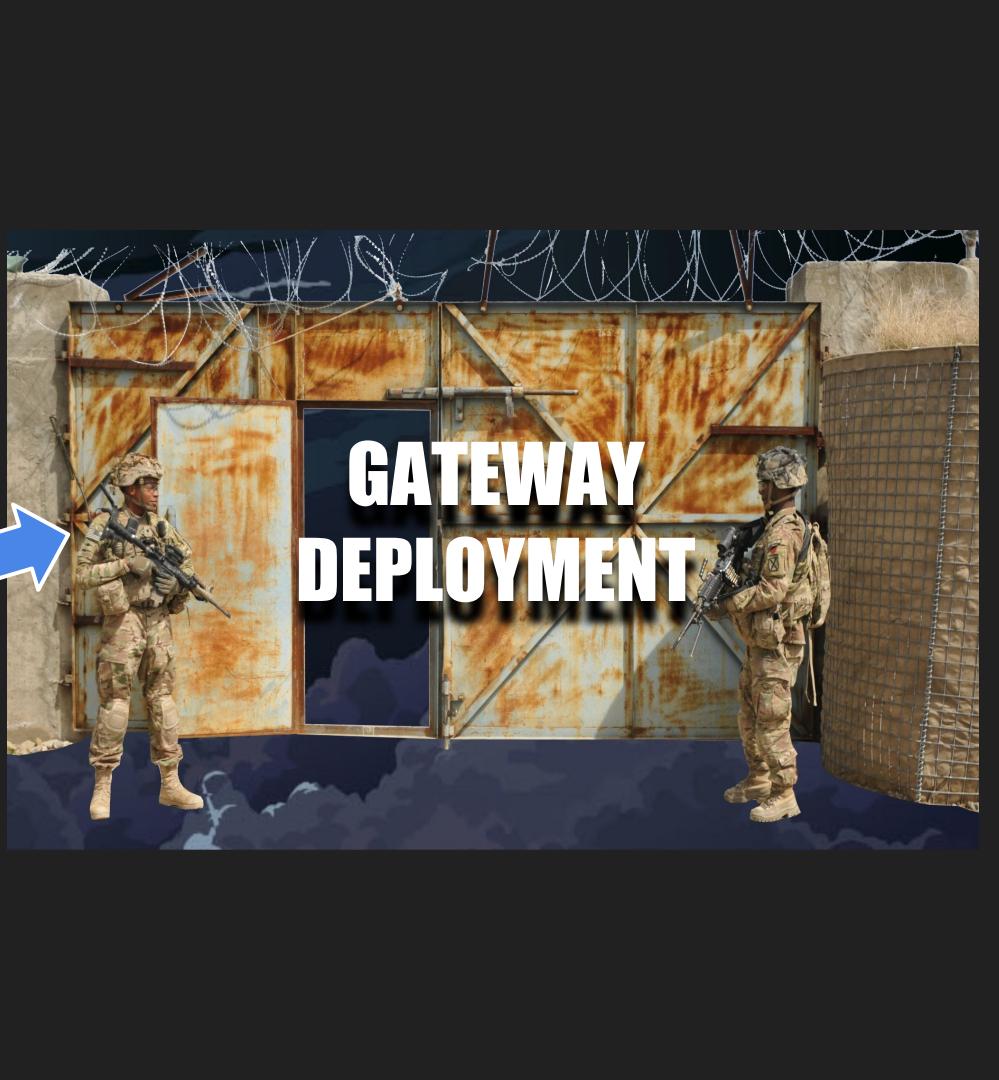
209,246 results

Set alert

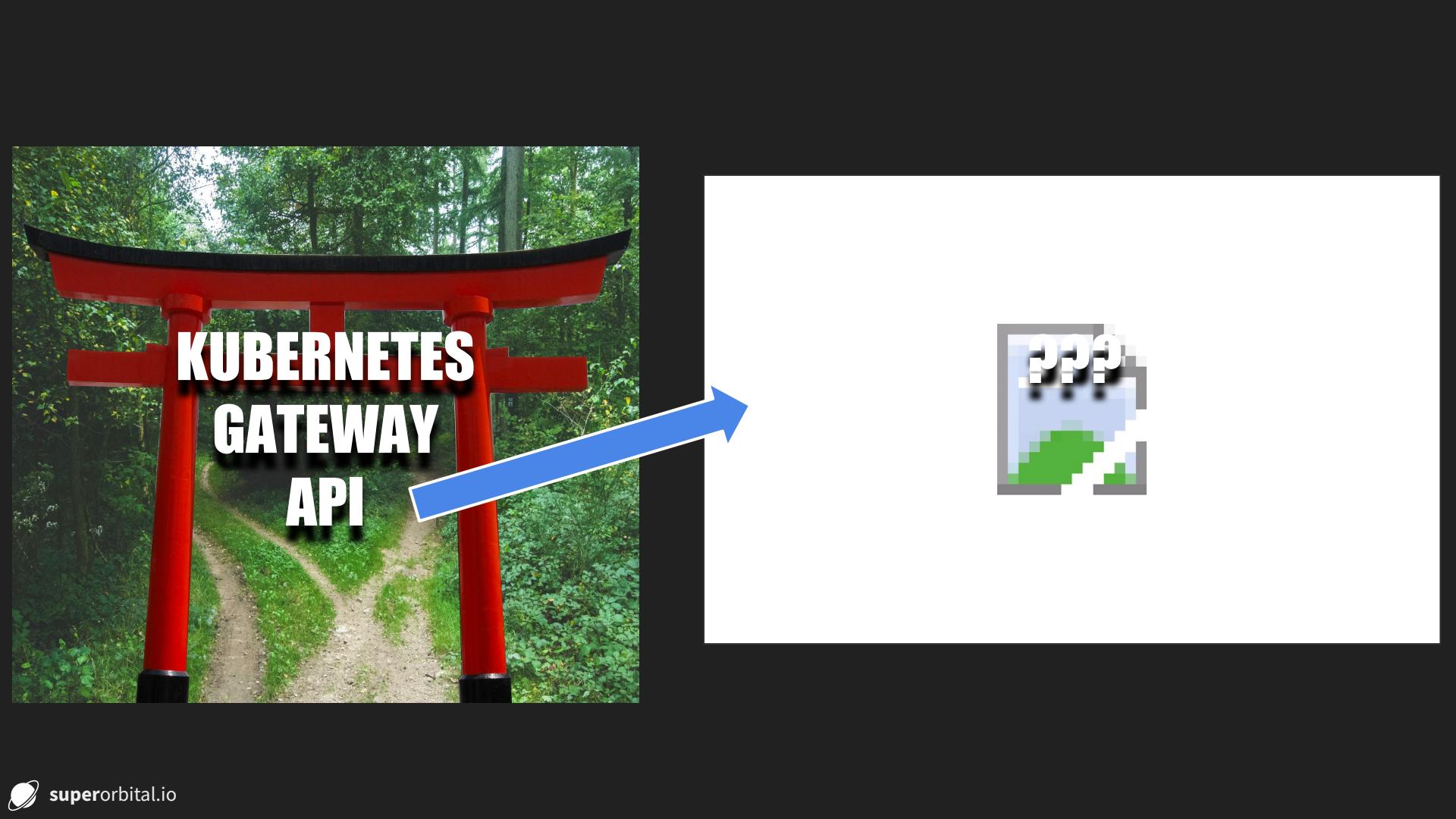




**ISTIO
GATEWAY
RESOURCE**

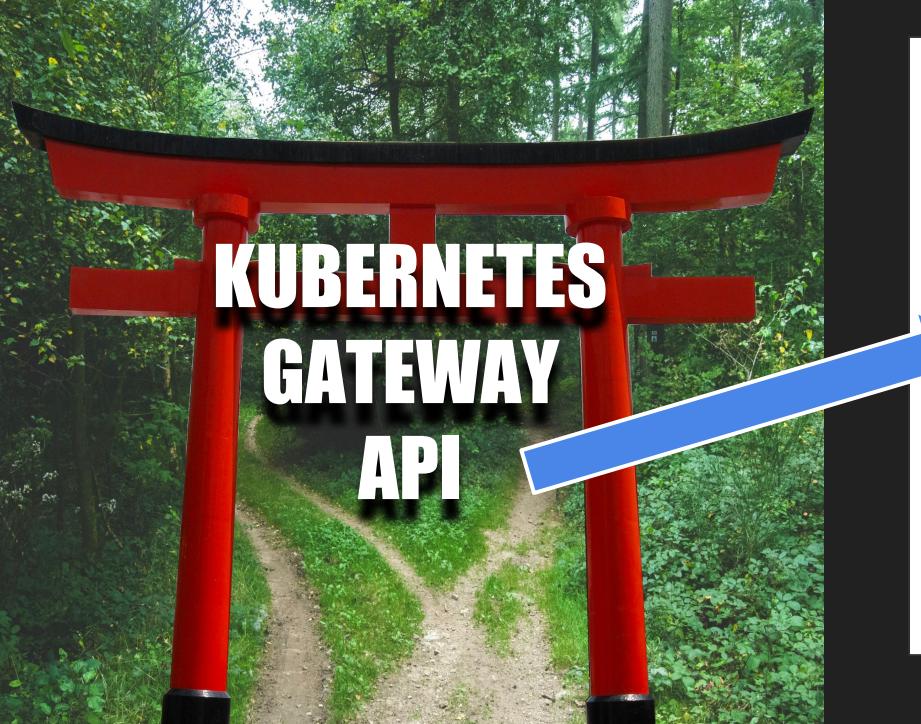


**GATEWAY
DEPLOYMENT**



KUBERNETES GATEWAY API

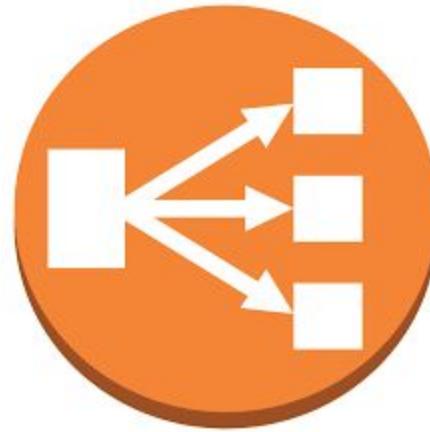
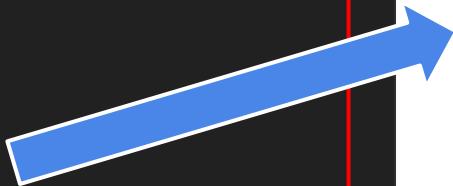




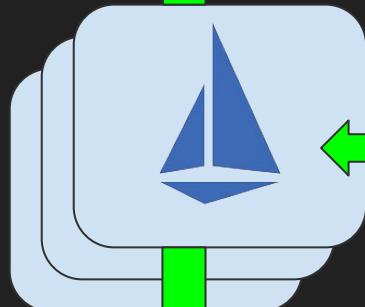
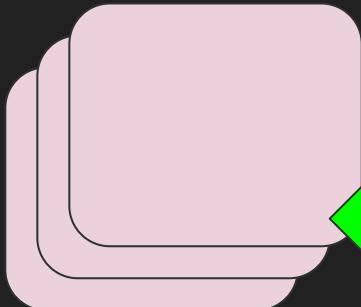
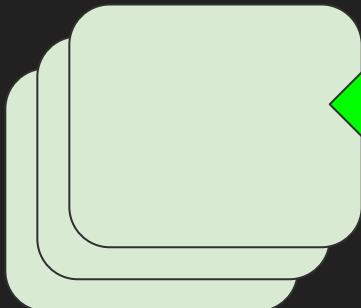
KUBERNETES GATEWAY API



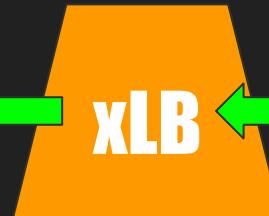
```
apiVersion: v1
kind: Service
metadata:
  name: frontend
spec:
  type: LoadBalancer
  selector:
    app: frontend
  ports:
  - port: 80
    protocol: TCP
    targetPort: 5000
```



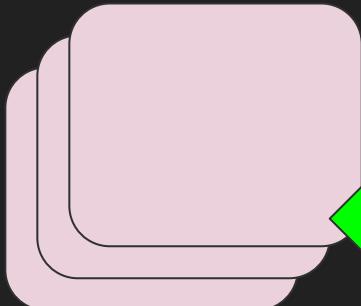
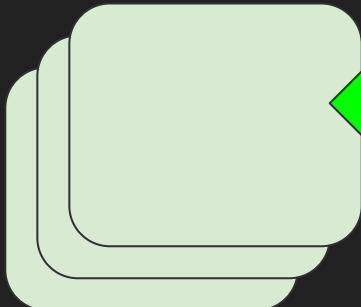
“provisioning”



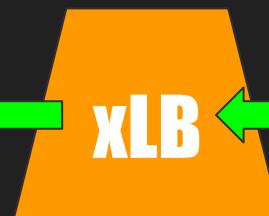
xLB

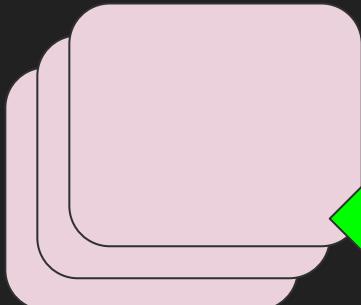
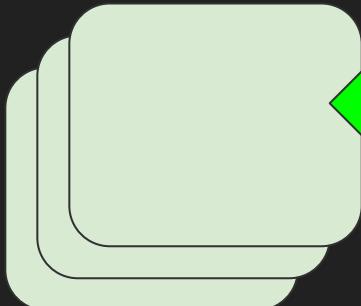


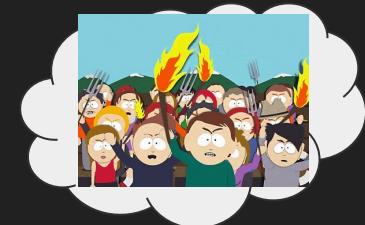
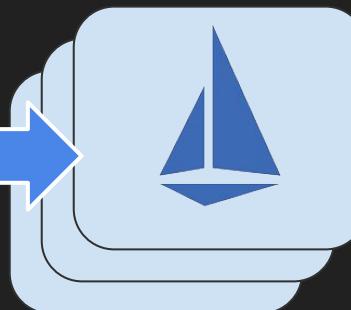
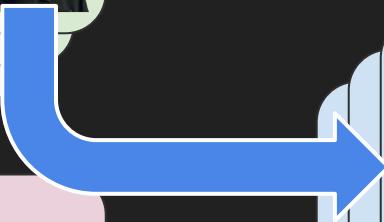
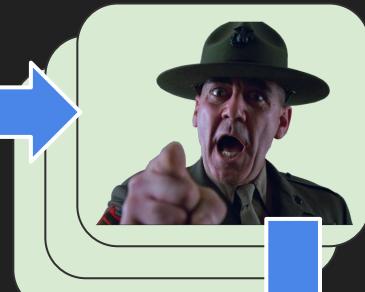
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$ istioctl install -y
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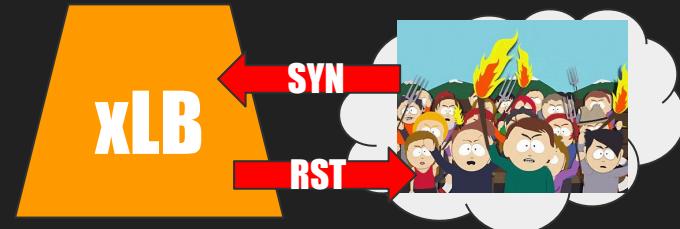
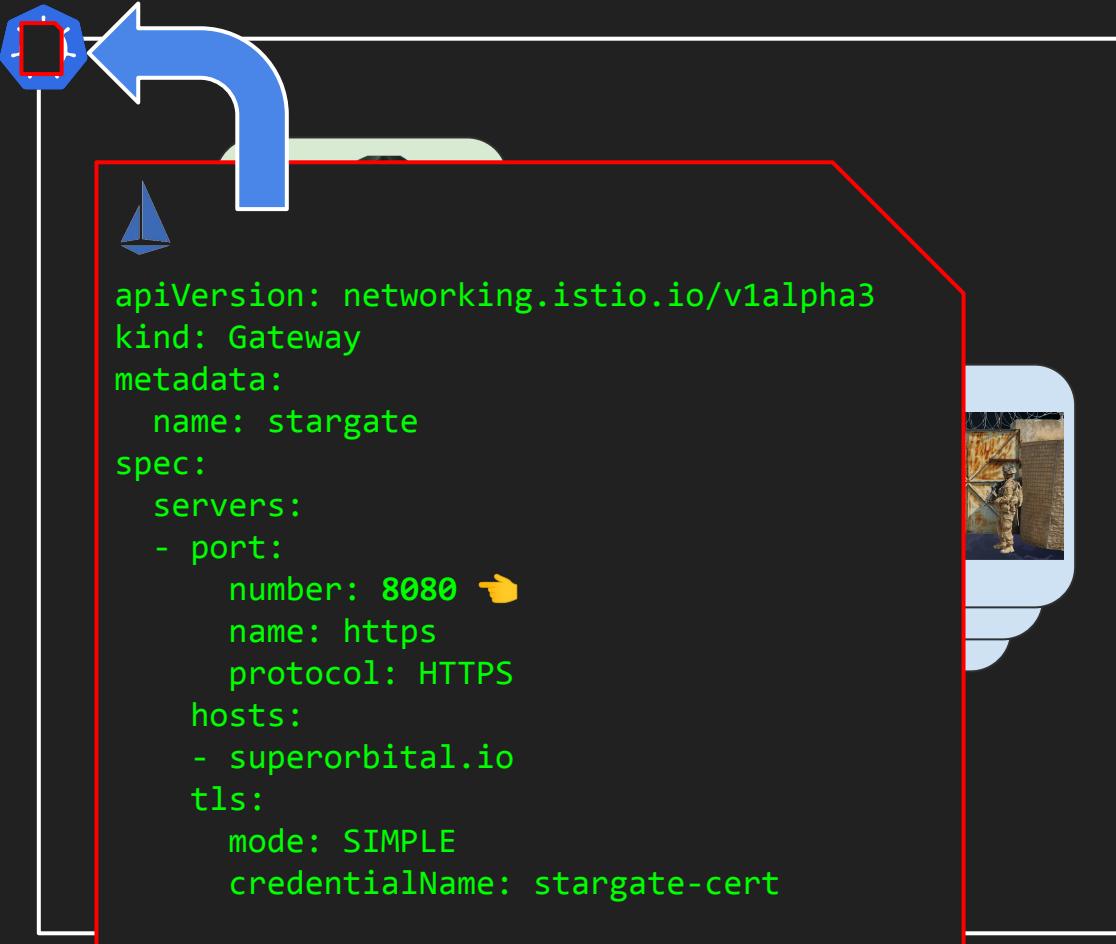


xLB





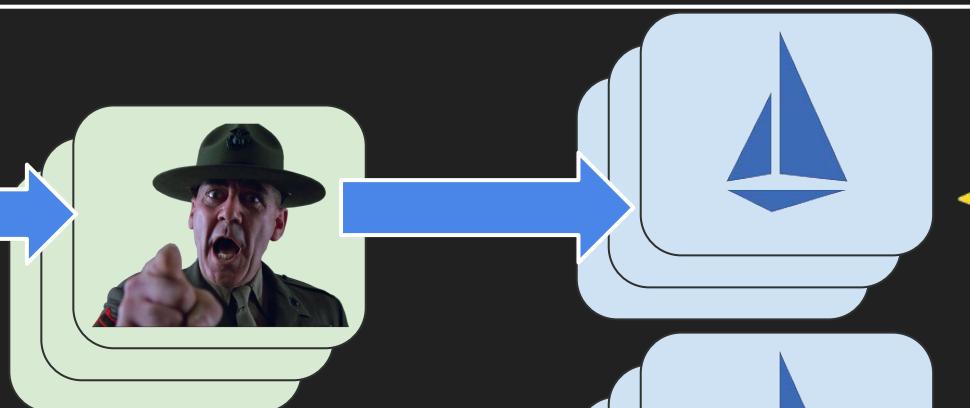
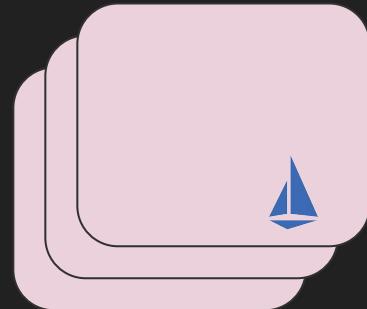


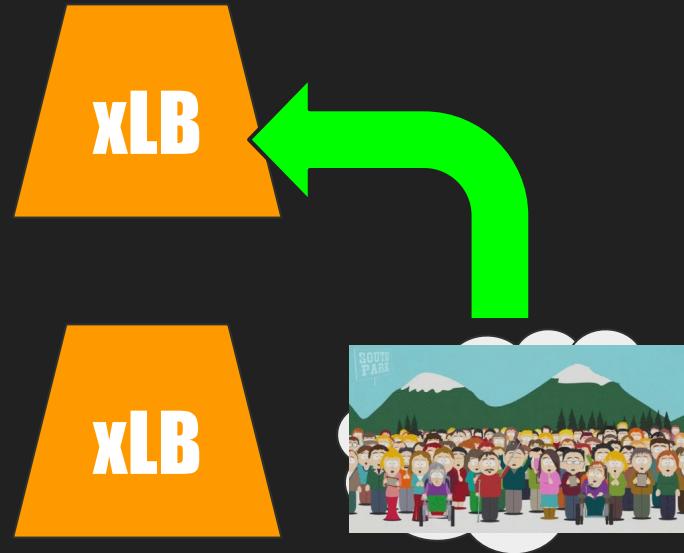
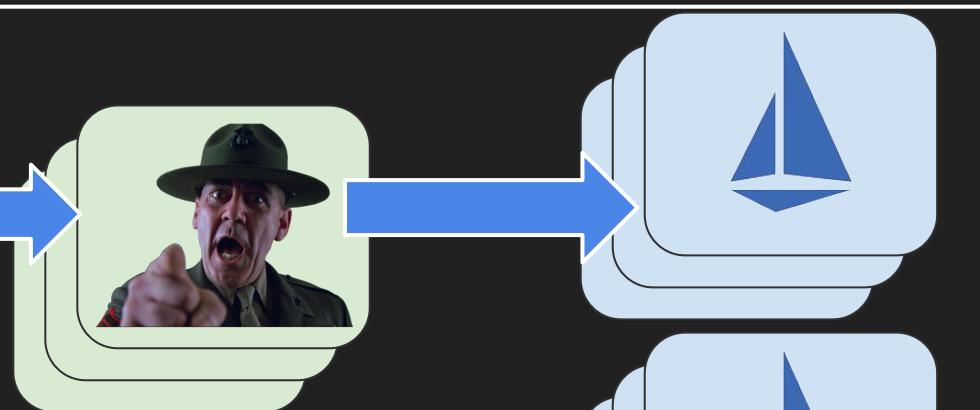
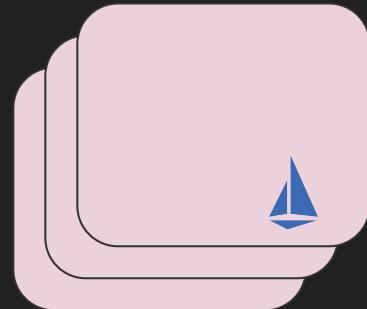




KUBERNETES GATEWAY API







“kubernetes gateway”

“kgateway”

“gateway object”

“kubernetes gateway”

“kgateway”

“gateway object”

“gateway class”

“kubernetes gateway”

“kgateway”

“gateway object”

“gateway class”

“*gateway*”







ISTIO GATEWAY RESOURCE

GATEWAY DEPLOYMENT



ISTIO GATEWAY RESOURCE

KUBERNETES GATEWAY API

GATEWAY DEPLOYMENT



Gateway, gateway or gateway?

A quick and dirty rundown of an overloaded term

Rob Salmond



@salmonwithad

A quick and dirty rundown of an overloaded term

Rob Salmond



@salmonwithad

A quick and dirty rundown of an overloaded term



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