

INGRESS





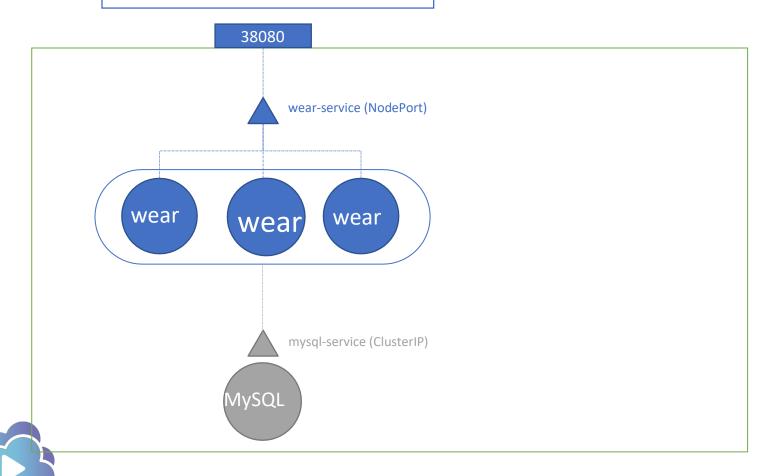
www.my-online-store.com





www.my-online-store.com

http://<node-ip>:38080





POD



Deployment



Service

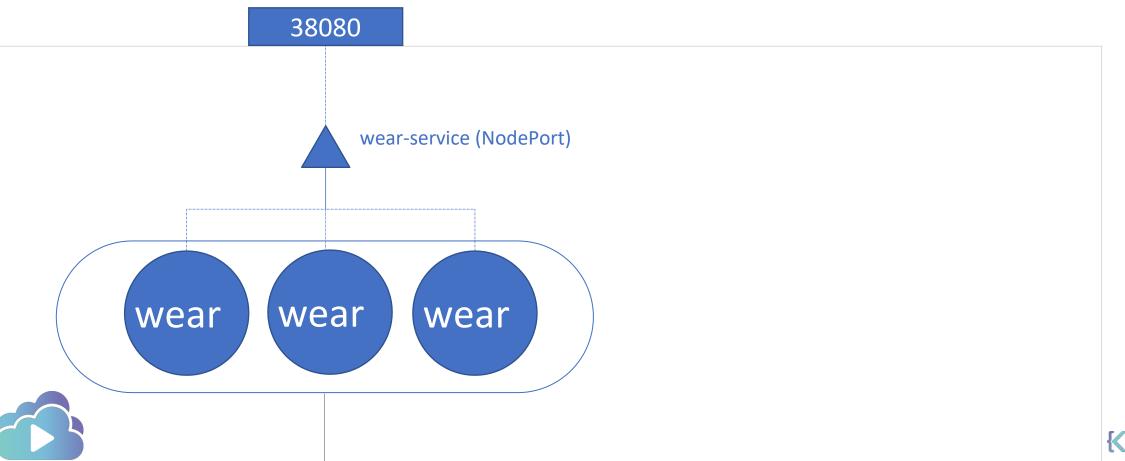




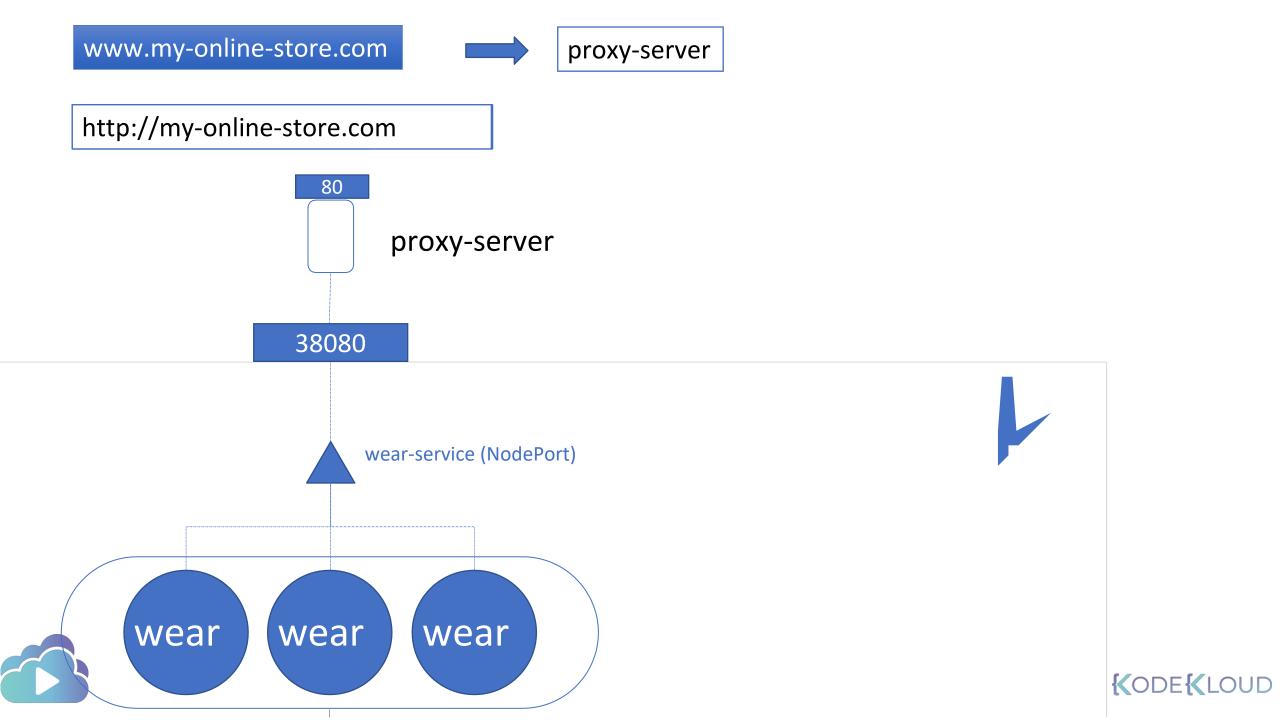


<node-ip>

http://my-online-store.com:38080



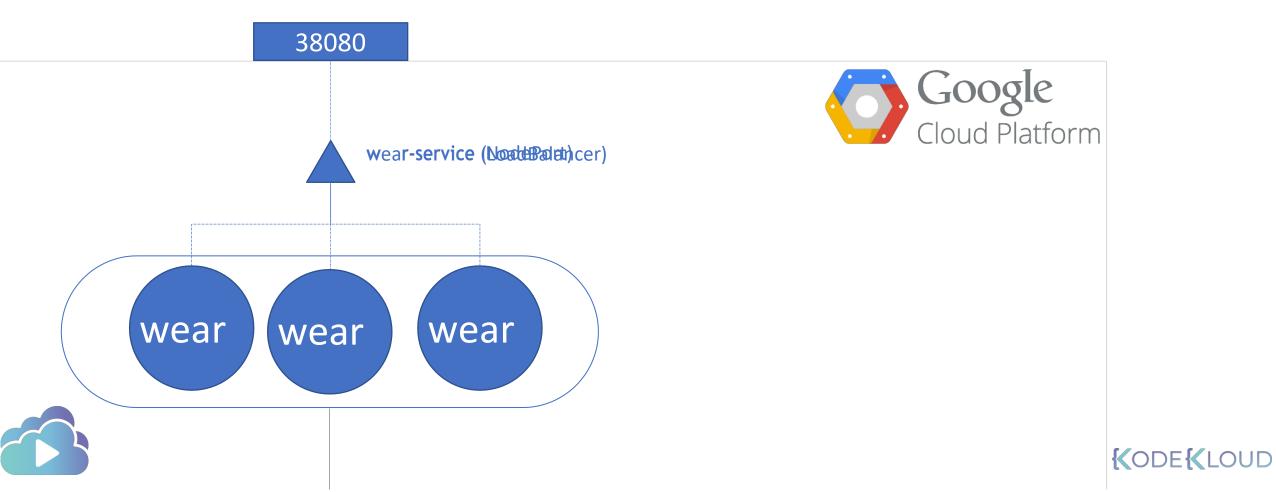






<node-ip>

http://my-online-store.com:38080

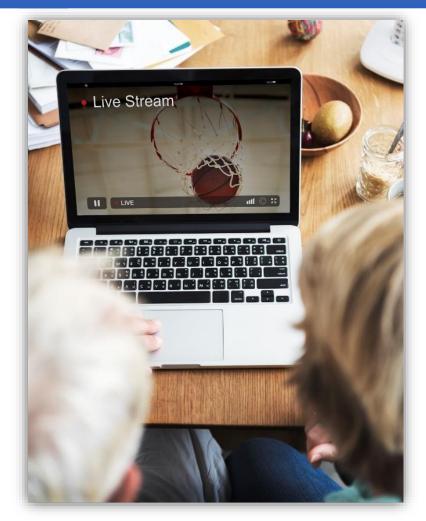




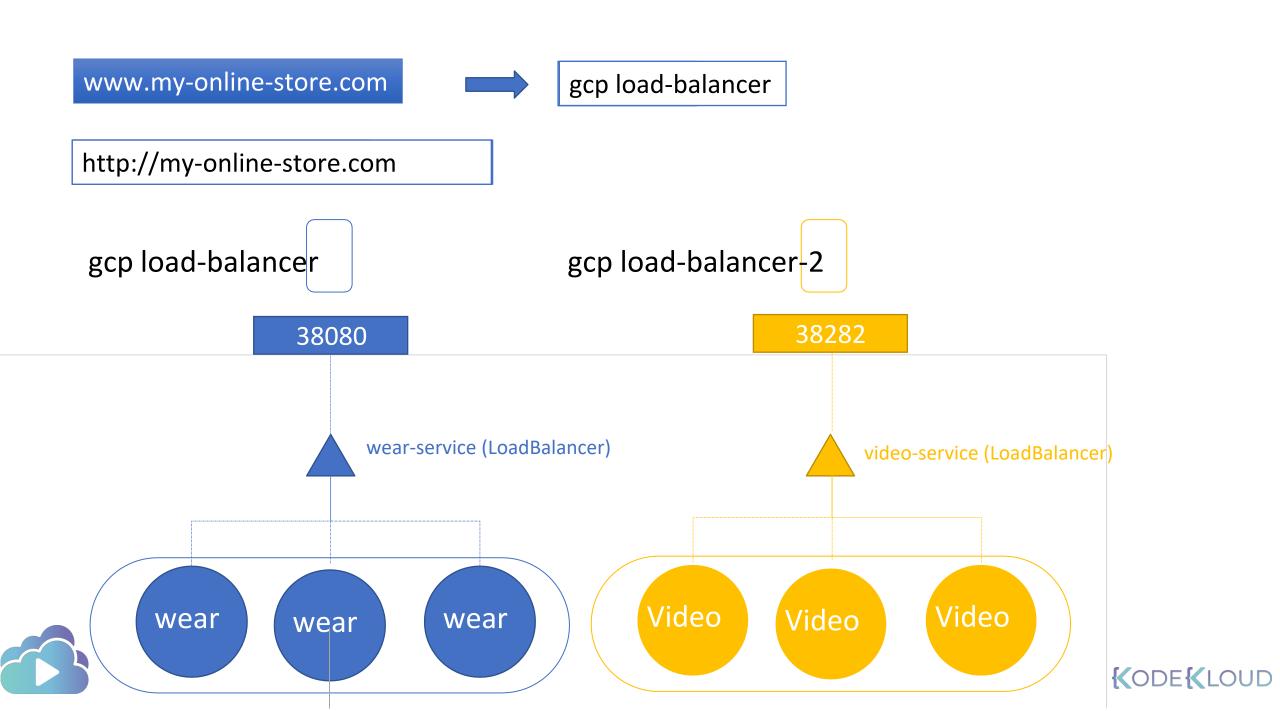


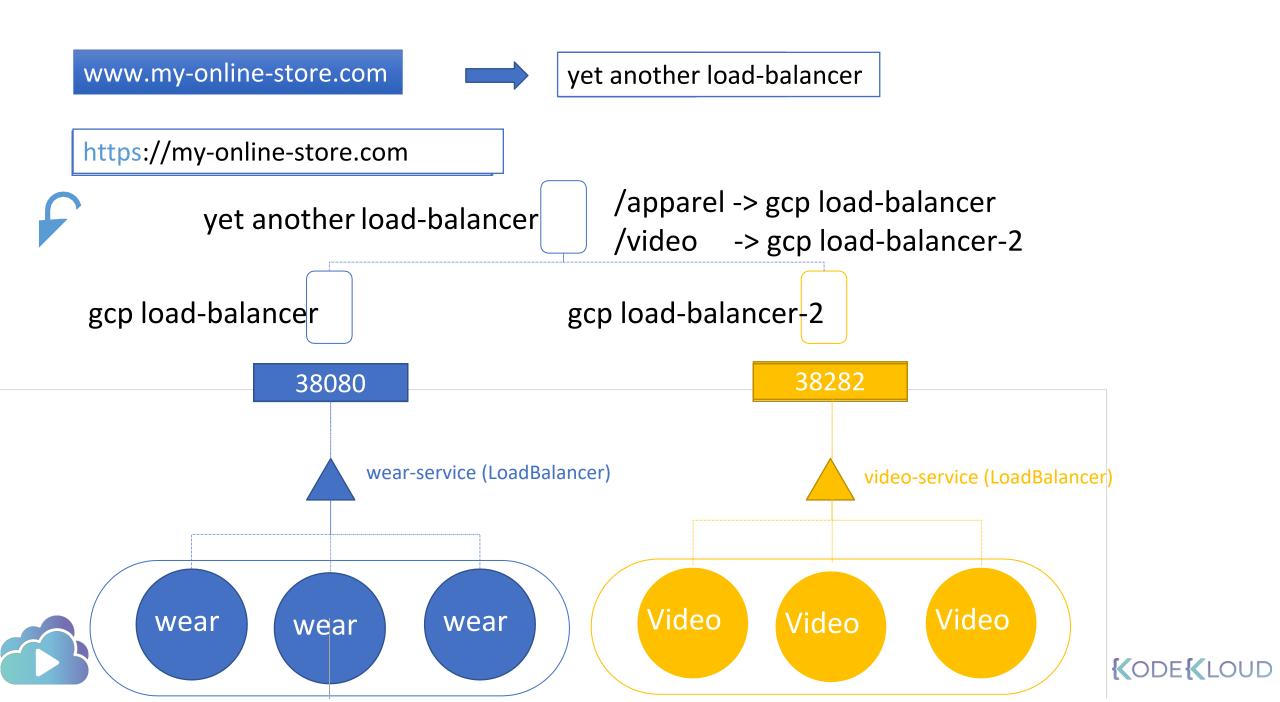
www.my.randinelintersecore.com/watch



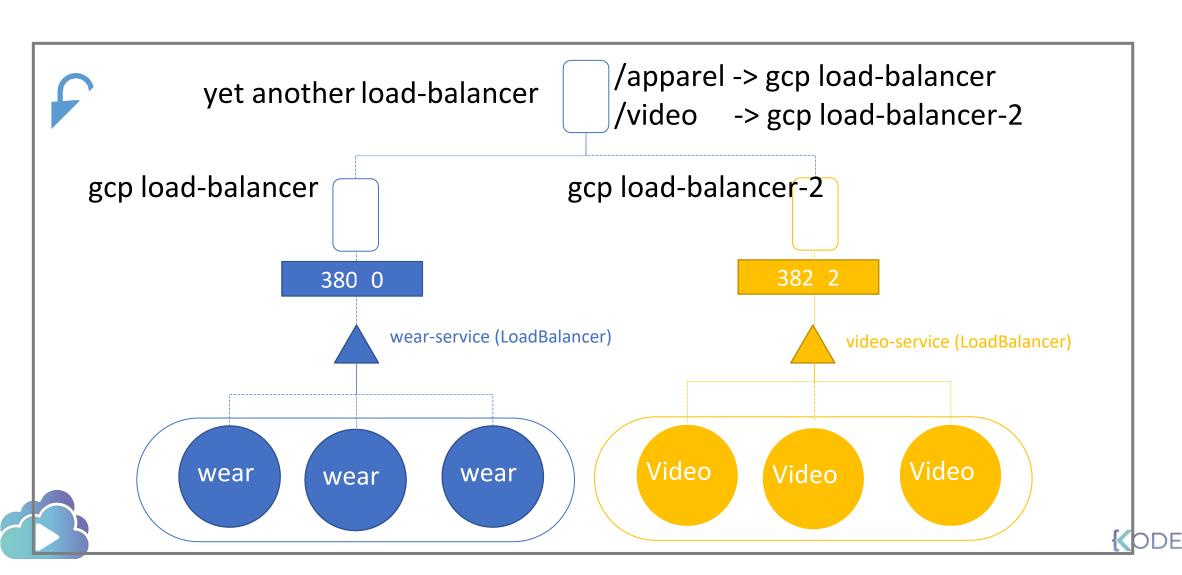


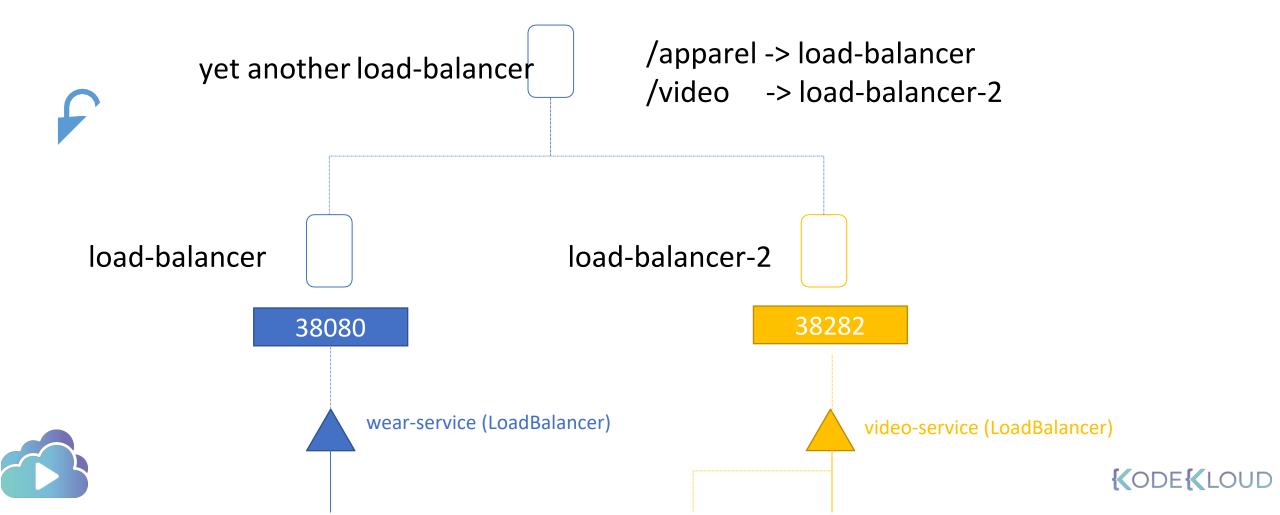


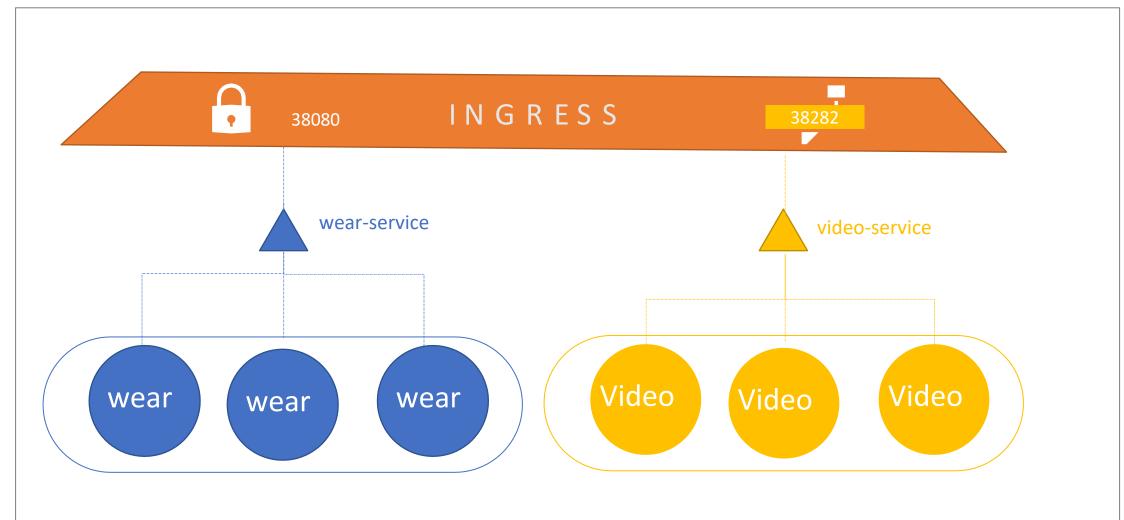




https://my-online-store.com



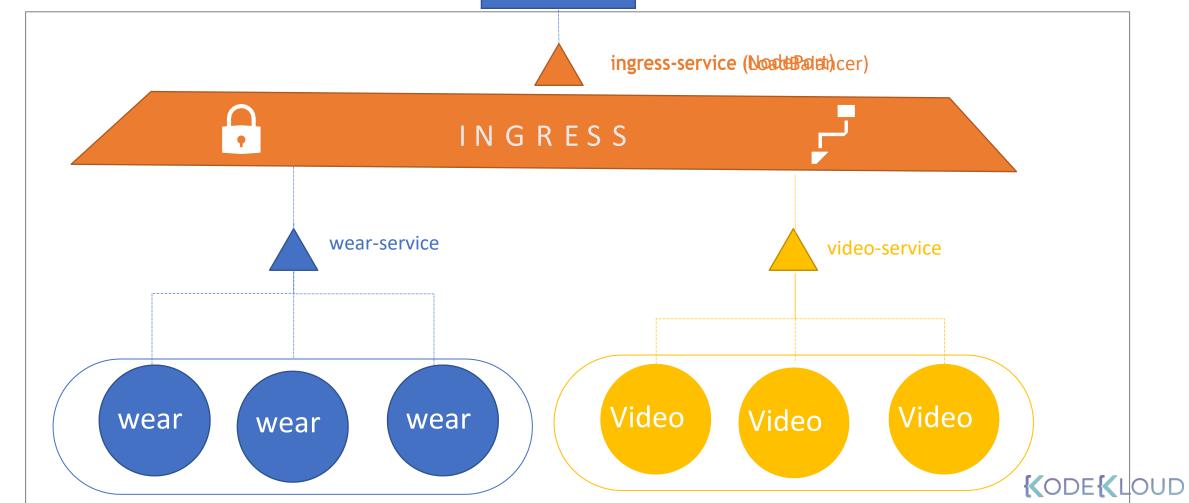








38080





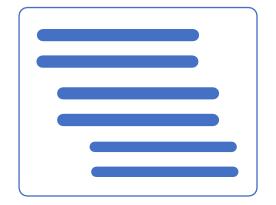


INGRESS CONTROLLER

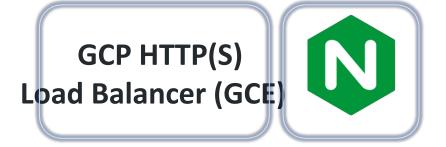


2. Configure





INGRESS CONTROLLER





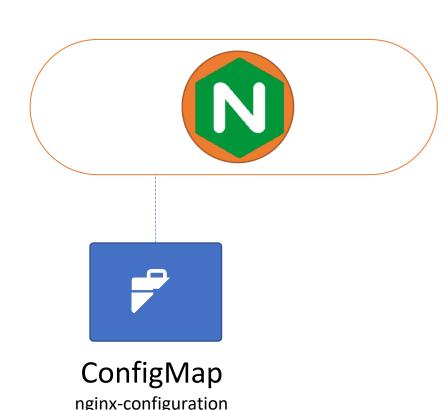








INGRESS CONTROLLER



kind: ConfigMap
apiVersion: v1

metadata:

name: nginx-configuration

```
apiVersion: extensions/v1beta1
kind: Deployment
metadata:
  name: nginx-ingress-controller
spec:
  replicas: 1
  selector:
    matchLabels:
      name: nginx-ingress
  template:
    metadata:
      labels:
        name: nginx-ingress
    spec:
      containers:
        - name: nginx-ingress-controller
          image:quay.io/kubernetes-ingress-
                controller/nginx-ingress-controller:0.21.0
       args:
         - /nginx-ingress-controller
         - --configmap=$(POD NAMESPACE)/nginx-configuration
```

INGRESS CONTROL





ConfigMap

nginx-configuration

kind: ConfigMap
apiVersion: v1

metadata:

name: nginx-configuration

```
name: nginx-ingress-controller
spec:
  replicas: 1
  selector:
    matchLabels:
      name: nginx-ingress
  template:
    metadata:
      labels:
        name: nginx-ingress
    spec:
      containers:
        - name: nginx-ingress-controller
          image: quay.io/kubernetes-ingress-
                 controller/nginx-ingress-controller:0.21.0
       args:
         - /nginx-ingress-controller
         - --configmap=$(POD NAMESPACE)/nginx-configuration
       env:
         - name: POD NAME
           valueFrom:
             fieldRef:
               fieldPath: metadata.name
         - name: POD NAMESPACE
           valueFrom:
             fieldRef:
               fieldPath: metadata.namespace
```

INGRESS CONTROL





ConfigMap

nginx-configuration

kind: ConfigMap
apiVersion: v1

metadata:

name: nginx-configuration

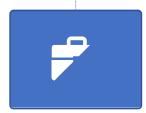
```
image: quay.io/kubernetes-ingress-
         controller/nginx-ingress-controller:0.21.0
args:
  - /nginx-ingress-controller
  - --configmap=$(POD NAMESPACE)/nginx-configuration
env:
  - name: POD NAME
    valueFrom:
      fieldRef:
        fieldPath: metadata.name
  - name: POD NAMESPACE
    valueFrom:
      fieldRef:
        fieldPath: metadata.namespace
ports:
  - name: http
    containerPort: 80
  - name: https
    containerPort: 443
```



INGRESS CONTROL







ConfigMap

nginx-configuration

kind: ConfigMap
apiVersion: v1

metadata:

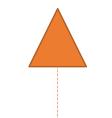
name: nginx-configuration

ports:
 - name: http
 containerPort: 80
 - name: https

containerPort: 443

apiVersion: v1 kind: Service metadata: name: nginx-ingress spec: type: NodePort ports: - port: 80 targetPort: 80 protocol: TCP name: http - port: 443 targetPort: 443 protocol: TCP name: https selector: name: nginx-ingress

INGRESS CONTRO









ServiceAccount

nginx-ingress-serviceaccount

kind: ConfigMap
apiVersion: v1

metadata:

name: nginx-configuration

name: http
- port: 443

targetPort: 443
protocol: TCP
name: https

selector:

name: nginx-ingress

apiVersion: v1

kind: ServiceAccount

metadata:

name: nginx-ingress-serviceaccount

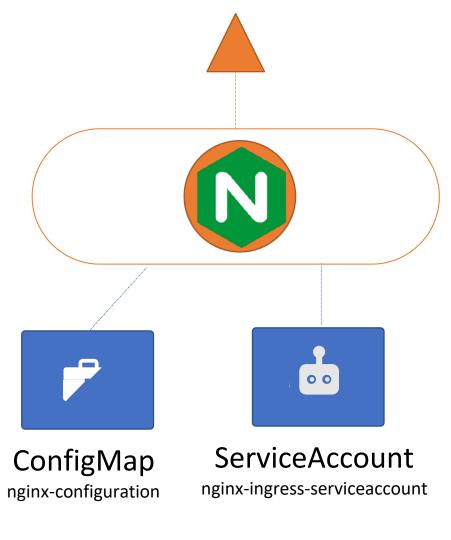
Roles

Clusterkoi

<u>kolepinalu</u>8



INGRESS CONTROLLER



```
Deployment
matchLabels:
```

Service

```
apiVersion: v1
kind: Service
metadata:
   name: nginx-ingress
spec:
   type: NodePort
   ports:
   - port: 80
        targetPort: 80
        protocol: TCP
        name: http
   - port: 443
        targetPort: 443
        protocol: TCP
        name: https
selector:
        name: nginx-ingress
```

ConfigMap

```
kind: ConfigMap
apiVersion: v1
metadata:
   name: nginx-configuration
```

Auth

```
apiVersion: v1
kind: ServiceAccount
metadata:
   name: nginx-ingress-serviceaccount
```

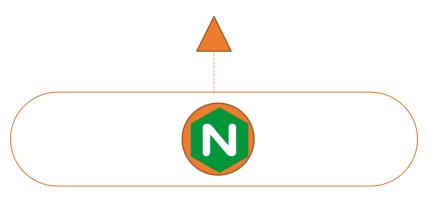
Roles

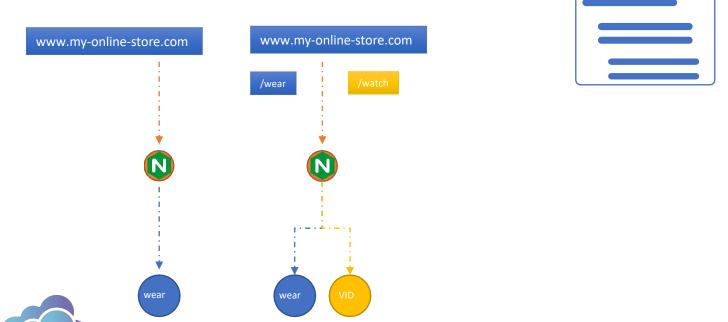
ClusterRoles

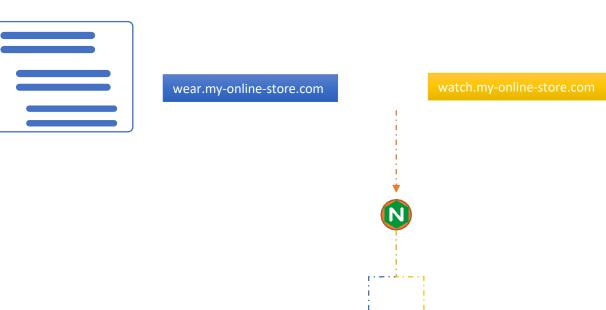
RoleBindings



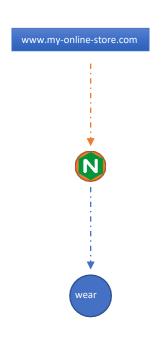








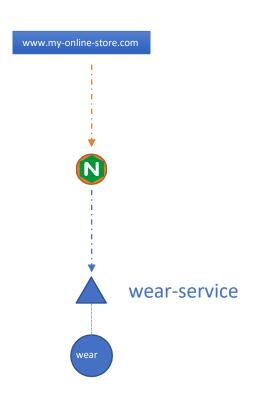




```
Ingress-wear.yaml

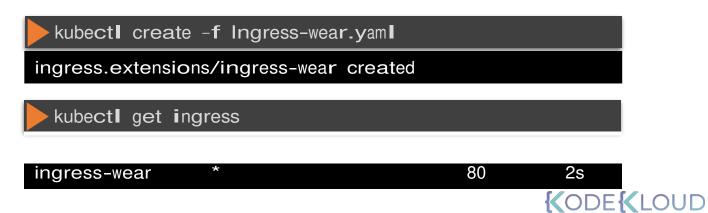
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
   name: ingress-wear
spec:
```





```
Ingress-wear.yaml

apiVersion: extensions/v1beta1
kind: Ingress
metadata:
   name: ingress-wear
spec:
   backend:
        serviceName: wear-service
        servicePort: 80
```





 www.my-online-store.com
 www.wear.my-online-store.com
 Everything Else

 Rule 1
 Rule 2
 Rule 3



DNS Name	Forward IP
www.my-online-store.com	10.123.23.12 (INGRESS SERVICE)
www.wear.my-online- store.com	10.123.23.12
www.watch.my- online.store.com	10.123.23.12
www.my-wear-store.com	10.123.23.12
www.my-watch-store.com	10.123.23.12



www.my-online-s

www.my-online-store.com

www.wear.my-online-store.com

www.watch.my-online-store.com

Everything Else

http://www.my-online-store.com/wear

http://www.my-online-store.com/watch

http://www.my-online-store.com/listen

Rule 1

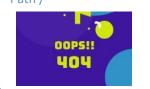
Path /wear



Path /watch



Path /



Rule 2

Rule 3

Rule 4



www.my-online-store.com

www.wear.my-online-store.com

www.watch.my-online-store.com

Everything Else

tp://www.my-online-store.com/wear

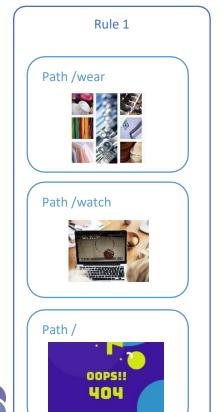
http://www.wear.my-online-store.com/

tp://www.my-online-store.com/watch

http://www.wear.my-online-store.com/returns

tp://www.my-online-store.com/listen

http://www.wear.my-online-store.com/support





Rule 3

Rule 4



www.my-online-store.com

www.wear.my-online-store.com

www.watch.my-online-store.com

Everything Else

http://www.my-online-store.com/wear

http://www.wear.my-online-store.com/

http://www.watch.my-online-store.com/

http://www.my-online-store.com/watch

http://www.wear.my-online-store.com/returns

http://www.watch.my-online-store.com/movies

http://www.my-online-store.com/listen

http://www.wear.my-online-store.com/support

http://www.watch.my-online-store.com/tv

Rule 1

Path /wear



Path /watch



Path /



Rule 2

Path /



Path /returns



Path /support



Rule 3

Path /



Path /movies



Path /tv



Rule 4



www.my-online-store.com

www.wear.my-online-store.com

www.watch.my-online-store.com

Everything Else

http://www.my-online-store.com/wear

http://www.wear.my-online-store.com/

http://www.watch.my-online-store.com/

http://www.listen.my-online-store.com/

http://www.my-online-store.com/watch

http://www.wear.my-online-store.com/returns

http://www.watch.my-online-store.com/movies

http://www.eat.my-online-store.com/

http://www.my-online-store.com/listen

http://www.wear.my-online-store.com/support

http://www.watch.my-online-store.com/tv

http://www.drink.my-online-store.com/tv

Rule 1

Path /wear



Path /watch



Path /



Rule 2

Path /



Path /returns



Path /support



Rule 3

Path /



Path /movies

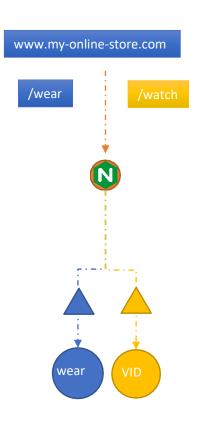


Path /tv









```
Ingress-wear.yaml

apiVersion: extensions/v1beta1
kind: Ingress
metadata:
   name: ingress-wear
spec:
   backend:
    serviceName: wear-service
   servicePort: 80
```

```
Ingress-wear-watch.yaml
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
  name: ingress-wear-watch
spec:
  rules:
  - http:
       paths:
       - path: /wear
       - path: /watch
        backend:
           serviceName: watch-service
           servicePort: 80
```



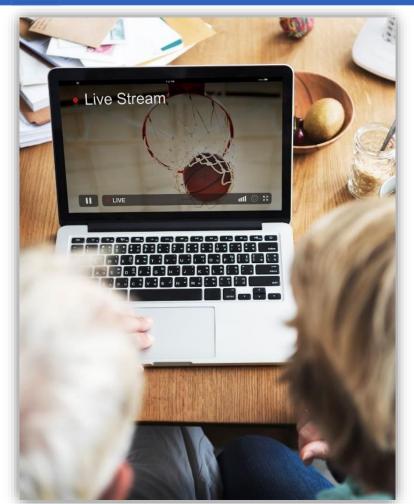
```
kubect | describe ingress ingress-wear-watch
Name:
                 ingress-wear-watch
Namespace:
                 default
Address:
Default backend: default-http-backend:80 (<none>)
Rules:
  Host Path Backends
                 wear-service:80 (<none>)
        /wear
        /watch
                watch-service:80 (<none>)
Annotations:
Events:
          Reason
                 Age
                        From
                                                 Message
  Type
  Normal CREATE 14s
                       nginx-ingress-controller Ingress default/ingress-wear-watch
```



www.my-online-store.com/eat www.my-online-store.com/liste

www.my-online-store.com/wear www.my-online-store.com/www.my-online-store.com/watch











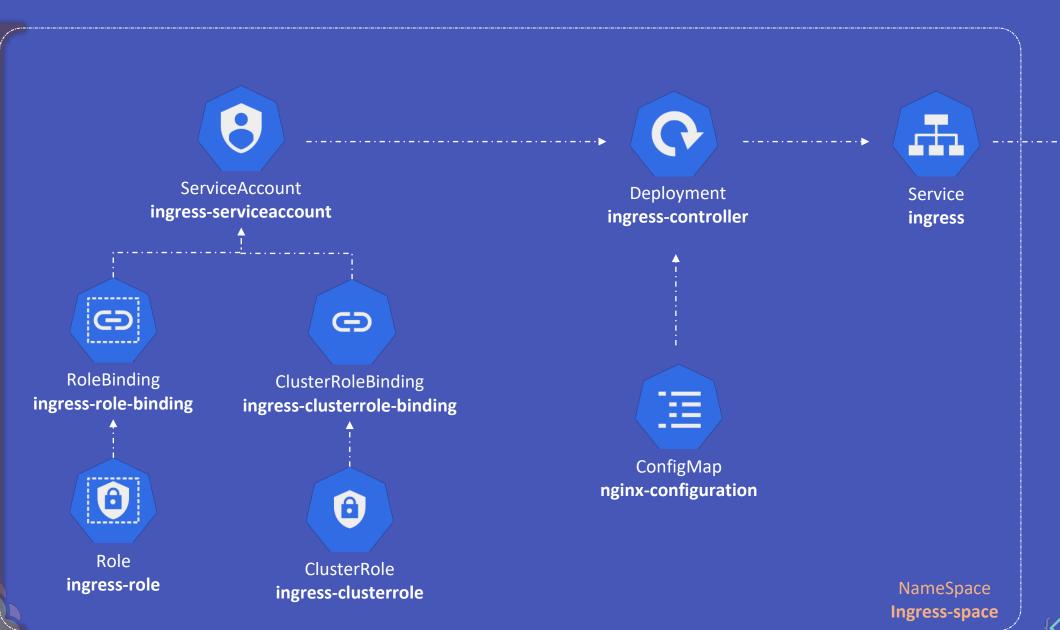
```
Ingress-wear-watch.yaml
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
  name: ingress-wear-watch
spec:
 rules:
 - host: wear.my-online-store.com
   http:
     paths:
     - backend:
          serviceName: wear-service
          servicePort: 80
 - host: watch.my-online-store.com
   http:
     paths:
     - backend:
          serviceName: watch-service
          servicePort: 80
```



```
Ingress-wear-watch.yaml
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
  name: ingress-wear-watch
spec:
  rules:
  - http:
      paths:
      - path: /wear
        backend:
           serviceName: wear-service
           servicePort: 80
      - path: /watch
        backend:
           serviceName: watch-service
           servicePort: 80
```

```
Ingress-wear-watch.yaml
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
  name: ingress-wear-watch
spec:
 rules:
 - host: wear.my-online-store.com
   http:
     paths:
     - backend:
          serviceName: wear-service
          servicePort: 80
 - host: watch.my-online-store.com
   http:
     paths:
     - backend:
          serviceName: watch-service
          servicePort: 80
```





{ODE**{L**OUD





Ingress-space



