

++ Istio on EKS ++

>> curl -L https://istio.io/downloadIstio | sh -

>> export PATH="\$PATH:/Users/gjay/istio-1.9.2/bin"

>> istioctl x precheck

>> istioctl version

>> eksctl create cluster --name tp-cluster-1 --mode g --mode-type ms.large
--managed --region us-east-1

>> kubectl get nodes | kubectl get pods --all-namespaces

>> cd istio-1.9.2

>> export PATH=\$PWD/bin:\$PATH

>> istioctl install --set profile=demo -y

>> kubectl label namespace default istio-injection=enabled
label

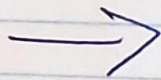
>> kubectl apply -f samples/bookinfo/platform/kub/bookinfo.yaml

get the pods memo using the metadata

↳ kubectl exec "\$(kubectl get pod -l app=ratings -o jsonpath='{.items[0].metadata.name}')" -- curl -sS -o /dev/null 'http://productpage:9080/productpage'

-c ratings -- curl -sS -o /dev/null 'http://productpage:9080/productpage'

in ratings { doing curl in product page
containers }



> kubectl apply -f sa-pha/bookinfo/networking/bookinfo-gateway.yaml

apiVersion: networking.istio.io/v1alpha3

Kind: Gateway

metadata:

name: bookinfo-gateway

spec:

selector:

istio: ingressgateway # use istio default controller

servers:

- port:

number: 80

httpName: http

protocol: HTTP

hosts:

- "*"

apiVersion: networking.istio.io/v1alpha3

Kind: VirtualService

metadata:

name: bookinfo

spec:

hosts:

- "*"

gateways:

- bookinfo-gateway

http:

- match:

- uri:

exact: /productpage

- uri:

prefix: /static

- uri:

exact: /login

- uri:

exact: /logout

- uri:

prefix: /api/v1/products

route:

- destination:

host: productpage ← servicename

port:

number: 9080 ← service pod number

>> kubectl get gateway
>> kubectl get vs ← virtual service

>> istioctl analyze ← check if there is any issue in terms of accessing your applications

↳ no validation issues found when analyzing name space: default

// Determining the ingress IP and ports

↳ kubectl get svc istio-ingressgateway -n istio-system

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	AGE	PORT(S)
istio-ingressgateway	LoadBalancer	—	elb.amazonaws.com elastic load balancer	—	—

export GATEWAY_URL=\$INGRESS_HOST:\$INGRESS_PORT

View the dashboard

istio integrates with several different telemetry applications. These can help you gain an understanding of the struct of your service mesh.

>> kubectl apply -f samples/addons

>> kubectl rollout status deployment/kiali -n istio-system

>> istioctl dashboard kiali ⇒ will open kiali in browser

>> istioctl dashboard jaeger