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PROJECT ON ISTIO/JAEGER/K8/EKS/KIALI

1) Create the AWS EC2 linux AMI instance

- Install kubectl [We will be accessing the PODS and resources of k8]

>>> fetch the stable release version from
<https://dl.k8s.io/release/stable.txt>

```
curl -LO "https://dl.k8s.io/release/$(curl -L -s
https://dl.k8s.io/release/stable.txt/bin/linux/amd64/kubectl"
```

>>>download the SHA-256 checksum file for **kubectl** from the Kubernetes release page.

```
curl -LO "https://dl.k8s.io/$(curl -L -s
https://dl.k8s.io/release/stable.txt/bin/linux/amd64/kubectl.s
ha256"
```

>>> To check kubectl and kubectl.sha256 downloaded or not

```
echo "$(cat kubectl.sha256) kubectl" | sha256sum --check
```

>>>The command you provided is attempting to install the **kubectl** binary to **/usr/local/bin/** with specific ownership and permissions.

```
sudo install -o root -g root -m 0755 kubectl /usr/local/bin/
```

>>> To check Kubectl downloaded or not

Kubectl get pods

```
sha256sum: 'standard input': no properly formatted SHA256 checksum lines found
[root@ip-172-31-80-48 ec2-user]# echo "$(cat kubectl.sha256) kubectl" | sha256sum --check
kubectl: OK
[root@ip-172-31-80-48 ec2-user]# kubectl get pods
/usr/local/bin/kubectl: line 1: syntax error near unexpected token `<
/usr/local/bin/kubectl: line 1: '<?xml version='1.0' encoding="UTF-8'?><Error><Code>NoSuchKey</Code><Message>The specified key does not
</Message><Details>No such object: kubernetes-release/release/bin/linux/amd64/kubectl</Details></Error>''
[root@ip-172-31-80-48 ec2-user]# sudo install -o root -g root -m 0755 kubectl /usr/local/bin/
root@ip-172-31-80-48 ec2-user]# kubectl get pods
[1212 06:50:02.615328    4003 memcache.go:265] couldn't get current server API group list: Get "http://localhost:8080/api?timeout=32s"
tcp 127.0.0.1:8080: connect: connection refused
[1212 06:50:02.615916    4003 memcache.go:265] couldn't get current server API group list: Get "http://localhost:8080/api?timeout=32s"
tcp 127.0.0.1:8080: connect: connection refused
[1212 06:50:02.617375    4003 memcache.go:265] couldn't get current server API group list: Get "http://localhost:8080/api?timeout=32s"
tcp 127.0.0.1:8080: connect: connection refused
[1212 06:50:02.617686    4003 memcache.go:265] couldn't get current server API group list: Get "http://localhost:8080/api?timeout=32s"
tcp 127.0.0.1:8080: connect: connection refused
[1212 06:50:02.619130    4003 memcache.go:265] couldn't get current server API group list: Get "http://localhost:8080/api?timeout=32s"
tcp 127.0.0.1:8080: connect: connection refused
The connection to the server localhost:8080 was refused - did you specify the right host or port?
[root@ip-172-31-80-48 ec2-user]#
```

- Install eksctl [We will create the cluster]

>>> Download the **eksctl** binary from the latest release on GitHub and extract it to the **/tmp** directory.

```
curl --silent --location
"https://github.com/weaveworks/eksctl/releases/latest/download/eksctl_$(
uname -s)_amd64.tar.gz" | tar xz -C /tmp
```

>>> moving the **eksctl** binary to **/usr/bin** and checking the version.

```
sudo mv /tmp/eksctl /usr/bin
eksctl version
```

```
[root@ip-172-31-80-48 ec2-user]# sudo mv /tmp/eksctl /usr/bin
eksctl version
0.165.0
[root@ip-172-31-80-48 ec2-user]#
```

2) Add IAM role to EC2 [So that EC2 access the EKS]

3) Create Cluster

```
eksctl create cluster --name=eksdemo1 --region=us-east-1 --zones=us-east-1b,us-east-1a --without-nodegroup
```

```
[root@ip-172-31-80-48 ec2-user]# eksctl create cluster --name=eksdemo1 --region=us-east-1 --zones=us-east-1b,us-east-1a --without-nodegroup
2023-12-12 07:35:06 [i] eksctl version 0.165.0
2023-12-12 07:35:06 [i] using region us-east-1
2023-12-12 07:35:06 [i] subnets for us-east-1b - public:192.168.0.0/19 private:192.168.64.0/19
2023-12-12 07:35:06 [i] subnets for us-east-1a - public:192.168.32.0/19 private:192.168.96.0/19
2023-12-12 07:35:06 [i] using Kubernetes version 1.27
2023-12-12 07:35:06 [i] creating EKS cluster "eksdemo1" in "us-east-1" region with
2023-12-12 07:35:06 [i] if you encounter any issues, check CloudFormation console or try 'eksctl utils describe-stacks --region=us-east-1 --cluster=eksdemo1'
2023-12-12 07:35:06 [i] Kubernetes API endpoint access will use default of {publicAccess=true, privateAccess=false} for cluster "eksdemo1" in "us-east-1"
2023-12-12 07:35:06 [i] CloudWatch logging will not be enabled for cluster "eksdemo1" in "us-east-1"
2023-12-12 07:35:06 [i] you can enable it with 'eksctl utils update-cluster-logging --enable-types={SPECIFY-YOUR-LOG-TYPES-HERE (e.g. all)} --region=us-east-1 --cluster=eksdemo1'
2023-12-12 07:35:06 [i]
2 sequential tasks: { create cluster control plane "eksdemo1", wait for control plane to become ready
}
2023-12-12 07:35:06 [i] building cluster stack "eksctl-eksdemo1-cluster"
2023-12-12 07:35:06 [i] deploying stack "eksctl-eksdemo1-cluster"
```

Stacks (1)				
C Delete Update Stack actions ▾ Create stack ▾				
Filter status Filter by stack name Active ▾ View nested ◀ 1 ▶ ⚙️				
Stack name	Status	Created time		Description
eksctl-eksdemo1-cluster	CREATE_COMPLETE	2023-12-12 13:05:06 UTC+0530		EKS cluster eksdemo1 created and running

4) Add OIDC

```
eksctl utils associate-iam-oidc-provider --region us-east-1 --cluster eksdemo --approve
```

```
[root@ip-172-31-80-48 ec2-user]# eksctl utils associate-iam-oidc-provider --region us-east-1 --cluster eksdemo1 --approve
[023-12-12 07:54:43 [i] will create IAM Open ID Connect provider for cluster "eksdemo1" in "us-east-1"
[023-12-12 07:54:44 [V] created IAM Open ID Connect provider for cluster "eksdemo1" in "us-east-1"
[root@ip-172-31-80-48 ec2-user]#
```

5) Add nodes

```
eksctl create nodegroup --cluster=eksdemo1 --region=us-east-1  
--name=eksdemo-ng-public --node-type=t2.medium --nodes=2  
--nodes-min=2 --nodes-max=4 --node-volume-size=10 --ssh-access  
--ssh-public-key=key-test --managed --asg-access --external-dns-access  
--full-ecr-access --appmesh-access --alb-ingress-access
```

Kubectl get pods -n kube-systems

```
[root@ip-172-31-80-48 ec2-user]# kubectl get pods -n kube-system  
NAME          READY   STATUS    RESTARTS   AGE  
aws-node-kqzt4   1/1     Running   0          2m  
aws-node-pwsjg   1/1     Running   0          117s  
coredns-79df7fff65-jjj4d   1/1     Running   0          3m43s  
coredns-79df7fff65-v2qvn   1/1     Running   0          3m43s  
kube-proxy-9bqjm   1/1     Running   0          117s  
kube-proxy-v8x9d   1/1     Running   0          2m  
[root@ip-172-31-80-48 ec2-user]#
```

6) INSTALL ISTIO

```
ISTIO_VERSION=1.18.1 TARGET_ARCH=x86_64 curl -L  
https://istio.io/downloadIstio | sh -
```

```
[root@ip-172-31-80-48 ec2-user]# ISTIO_VERSION=1.18.1 TARGET_ARCH=x86_64 curl -L https://istio.io/downloadIstio | sh -  
% Total    % Received % Xferd  Average Speed   Time   Time  Current  
          Dload  Upload Total Spent   Left Speed  
100  102  100  102    0     0  2359      0  --:--:--:--:--:--:--:-- 2372  
100 4899  100 4899    0     0 93220      0  --:--:--:--:--:--:--:-- 93220  
  
Downloading istio-1.20.0 from https://github.com/istio/istio/releases/download/1.20.0/istio-1.20.0-linux-amd64.tar.gz ...  
  
Istio 1.20.0 Download Complete!  
  
Istio has been successfully downloaded into the istio-1.20.0 folder on your system.  
  
Next Steps:  
See https://istio.io/latest/docs/setup/install/ to add Istio to your Kubernetes cluster.  
  
To configure the istioctl client tool for your workstation,  
add the /home/ec2-user/istio-1.20.0/bin directory to your environment path variable with:  
    export PATH="$PATH:/home/ec2-user/istio-1.20.0/bin"  
  
Begin the Istio pre-installation check by running:  
    istioctl x precheck  
  
Need more information? Visit https://istio.io/latest/docs/setup/install/
```

7) Go into the directory

```
cd istio-1.20.0
```

The installation directory contains:

- Sample applications in samples/
- The istioctl client binary in the bin/ directory.

8) SET THE PATH

```
export PATH=$PWD/bin:$PATH
```

9) INSTALL THE ISTIO WITH DEMO PROFILE

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

```
[root@ip-172-31-80-48 istio-1.20.0]# kubectl get pods -n istio-system
NAME                     READY   STATUS    RESTARTS   AGE
istio-egressgateway-7d9fc46ff8-qwr2k   1/1     Running   0          4m38s
istio-ingressgateway-54ffb696f6-wzrfz  1/1     Running   0          4m38s
istiod-64dd95575-s2q6d                1/1     Running   0          4m45s
[root@ip-172-31-80-48 istio-1.20.0]#
```

10)

This pod monitoring by istio

```
kubectl apply -f "https://raw.githubusercontent.com/istio/istio/release-1.18/samples/bookinfo/platform/kube/bookinfo.yaml"
```

```
[root@ip-172-31-80-48 istio-1.20.0]# kubectl apply -f "https://raw.githubusercontent.com/istio/istio/release-1.18/samples/bookinfo/platform/kube/bookinfo.yaml"
service/details created
serviceaccount/bookinfo-details created
deployment.apps/details-v1 created
service/ratings created
serviceaccount/bookinfo-ratings created
deployment.apps/ratings-v1 created
service/reviews created
serviceaccount/bookinfo-reviews created
deployment.apps/reviews-v1 created
deployment.apps/reviews-v2 created
deployment.apps/reviews-v3 created
service/productpage created
serviceaccount/bookinfo-productpage created
deployment.apps/productpage-v1 created
[root@ip-172-31-80-48 istio-1.20.0]# kubectl get pods -n default
NAME           READY   STATUS    RESTARTS   AGE
details-v1-7c7dbcb4b5-v5nsx   1/1    Running   0          51s
productpage-v1-664d44d68d-86nct 1/1    Running   0          50s
ratings-v1-844796bf85-vtlcd   1/1    Running   0          51s
reviews-v1-5cf854487-2b2nl    1/1    Running   0          51s
reviews-v2-955b74755-5bpf5    1/1    Running   0          51s
reviews-v3-797fc48bc9-mq2f2    1/1    Running   0          50s
[root@ip-172-31-80-48 istio-1.20.0]#
```

11) kubectl get services

```
[root@ip-172-31-80-48 istio-1.20.0]# kubectl get services
NAME      TYPE      CLUSTER-IP      EXTERNAL-IP      PORT(S)      AGE
details   ClusterIP  10.100.12.209  <none>        9080/TCP    7m11s
kubernetes  ClusterIP  10.100.0.1    <none>        443/TCP     77m
productpage  ClusterIP  10.100.5.54  <none>        9080/TCP    7m10s
ratings    ClusterIP  10.100.1.220  <none>        9080/TCP    7m11s
reviews    ClusterIP  10.100.182.52 <none>        9080/TCP    7m11s
[root@ip-172-31-80-48 istio-1.20.0]#
```

12) kubectl get pods

```
[root@ip-172-31-80-48 istio-1.20.0]# kubectl get pods
NAME           READY   STATUS    RESTARTS   AGE
details-v1-7c7dbcb4b5-v5nsx   1/1    Running   0          8m32s
productpage-v1-664d44d68d-86nct 1/1    Running   0          8m31s
ratings-v1-844796bf85-vtlcd   1/1    Running   0          8m32s
reviews-v1-5cf854487-2b2nl    1/1    Running   0          8m32s
reviews-v2-955b74755-5bpf5    1/1    Running   0          8m32s
reviews-v3-797fc48bc9-mq2f2    1/1    Running   0          8m31s
[root@ip-172-31-80-48 istio-1.20.0]#
```

13) Hit the below command

```
kubectl exec "$(kubectl get pod -l app=ratings -o jsonpath='{.items[0].metadata.name}')" -c ratings -- curl -sS productpage:9080/productpage | grep -o "<title>.*</title>"
```

```
[root@ip-172-31-80-48 istio-1.20.0]# kubectl exec "$(kubectl get pod -l app=ratings -o jsonpath='{.items[0].metadata.name}') --ratings -- curl -sS productpage:9080/productpage | grep -o "<title>.*</title>" <title>Simple Bookstore App</title>
[root@ip-172-31-80-48 istio-1.20.0]#
```

14) TO INJECT ISTIO AS INIT CONTAINER [NOW 2 PODS WILL RUN]

kubectl label namespace default istio-injection=enabled

```
[root@ip-172-31-80-48 istio-1.20.0]# kubectl label namespace default istio-injection=enabled
namespace/default labeled
[root@ip-172-31-80-48 istio-1.20.0]#
```

istioctl analyze (getting warning)

```
[root@ip-172-31-80-48 istio-1.20.0]# istioctl analyze
Warning [IST0103] (Pod default/details-v1-7c7dbcb4b5-v5nsx) The pod default/details-v1-7c7dbcb4b5-v5nsx is missing the Istio proxy. This can often be resolved by restarting or redeploying the workload.
Warning [IST0103] (Pod default/productpage-v1-664d44d68d-86nct) The pod default/productpage-v1-664d44d68d-86nct is missing the Istio proxy. T his can often be resolved by restarting or redeploying the workload.
Warning [IST0103] (Pod default/ratings-v1-844796bf85-vt1cd) The pod default/ratings-v1-844796bf85-vt1cd is missing the Istio proxy. This can often be resolved by restarting or redeploying the workload.
Warning [IST0103] (Pod default/reviews-v1-5cf854487-2b2nl) The pod default/reviews-v1-5cf854487-2b2nl is missing the Istio proxy. This can often be resolved by restarting or redeploying the workload.
Warning [IST0103] (Pod default/reviews-v2-955b74755-5bpf5) The pod default/reviews-v2-955b74755-5bpf5 is missing the Istio proxy. This can often be resolved by restarting or redeploying the workload.
Warning [IST0103] (Pod default/reviews-v3-797fc48bc9-mq2f2) The pod default/reviews-v3-797fc48bc9-mq2f2 is missing the Istio proxy. This can often be resolved by restarting or redeploying the workload.
```

Delete all pods

```
[root@ip-172-31-80-48 istio-1.20.0]# kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
details-v1-7c7dbcb4b5-v5nsx   1/1     Running   0          36m
productpage-v1-664d44d68d-86nct 1/1     Running   0          36m
ratings-v1-844796bf85-vt1cd   1/1     Running   0          36m
reviews-v1-5cf854487-2b2nl    1/1     Running   0          36m
reviews-v2-955b74755-5bpf5    1/1     Running   0          36m
reviews-v3-797fc48bc9-mq2f2    1/1     Running   0          36m
[root@ip-172-31-80-48 istio-1.20.0]# kubectl delete pods details-v1-7c7dbcb4b5-v5nsx productpage-v1-664d44d68d-86nct ratings-v1-844796bf85-vt1cd
pod "details-v1-7c7dbcb4b5-v5nsx" deleted
pod "productpage-v1-664d44d68d-86nct" deleted
[root@ip-172-31-80-48 istio-1.20.0]# kubectl delete pods ratings-v1-844796bf85-vt1cd reviews-v1-5cf854487-2b2nl reviews-v2-955b74755-5bpf5
pod "ratings-v1-844796bf85-vt1cd" deleted
pod "reviews-v1-5cf854487-2b2nl" deleted
pod "reviews-v2-955b74755-5bpf5" deleted
[root@ip-172-31-80-48 istio-1.20.0]# kubectl delete pods reviews-v3-797fc48bc9-mq2f2
pod "reviews-v3-797fc48bc9-mq2f2" deleted
[root@ip-172-31-80-48 istio-1.20.0]#
```

kubectl delete pod <pod_name>
[NOTE - You will see two container per pod]

```
pod "reviews-v3-7971c48bc9-mqz12" deleted
[root@ip-172-31-80-48 istio-1.20.0]# kubectl get pods
NAME           READY   STATUS    RESTARTS   AGE
details-v1-7c7dbcb4b5-jn74t   2/2     Running   0          2m18s
productpage-v1-664d44d68d-8lr4t 2/2     Running   0          2m18s
ratings-v1-844796bf85-njzf1    2/2     Running   0          80s
reviews-v1-5cf854487-wkprc    2/2     Running   0          80s
reviews-v2-955b74755-jprh7    2/2     Running   0          80s
reviews-v3-797fc48bc9-n5qbs   2/2     Running   0          55s
[root@ip-172-31-80-48 istio-1.20.0]#
```

istioctl analyze (No warning)

```
[root@ip-172-31-80-48 istio-1.20.0]# istioctl analyze
✓ No validation issues found when analyzing namespace: default.
[root@ip-172-31-80-48 istio-1.20.0]#
```

15)

cd samples/bookinfo/networking/

kubectl apply -f bookinfo-gateway.yaml

```
[root@ip-172-31-80-48 istio-1.20.0]# cd samples/bookinfo/networking/
[root@ip-172-31-80-48 networking]# kubectl apply -f bookinfo-gateway.yaml
gateway.networking.istio.io/bookinfo-gateway created
virtualservice.networking.istio.io/bookinfo created
[root@ip-172-31-80-48 networking]#
```

16)

kubectl get vs

kubectl get gateway

```
[root@ip-172-31-80-48 networking]# kubectl get gateway
NAME           AGE
bookinfo-gateway  2m39s
[root@ip-172-31-80-48 networking]#
```

17)

kubectl get svc istio-ingressgateway -n istio-system

18) Set the ingress IP and ports:

```
export INGRESS_HOST=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.status.loadBalancer.ingress[0].ip}')
export INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="http2")].port}')
export SECURE_INGRESS_PORT=$(kubectl -n istio-system get service istio-ingressgateway -o
jsonpath='{.spec.ports[?(@.name=="https")].port}')
```

19)

```
echo $SECURE_INGRESS_PORT
```

```
[root@ip-172-31-80-48 networking]# echo $SECURE_INGRESS_PORT
443
[root@ip-172-31-80-48 networking]#
```

20)

```
export
```

```
INGRESS_HOST=aa5f67b3e222e407fab84cf94568935-
1842485392.us-east-1.elb.amazonaws.com
-west-1.elb.amazonaws.com
export GATEWAY_URL=$INGRESS_HOST:$INGRESS_PORT
echo $GATEWAY_URL
```

21) HIT THE BELOW URL

```
echo "http://$GATEWAY_URL/productpage"
```

```
http://aa5f67b3e222e407fab84cf94568935-1842485392.us-east-
1.elb.amazonaws.com:80/productpage
```



The Comedy of Errors

summary: Wikipedia Summary: The Comedy of Errors is one of William Shakespeare's early plays. It is his shortest and one of his most farcical comedies, with a major part of the humour coming from slapstick and mistaken identity, in addition to puns and word play.

Book Details

Type:
Paperback
Pages:
100
Publisher:
PublisherA
Language:
English
ISBN-10:
234567890
ISBN-13:
23-1234567890

Book Reviews

An extremely entertaining play by Shakespeare. The slapstick humour is refreshing!

— Reviewer1

Absolutely fun and entertaining. The play lacks thematic depth when compared to other plays by Shakespeare.

— Reviewer2

Reviews served by:
[reviews-v1-5cf854487-wkprc](#)

22) KIALI DASHOBAORD [ALL TOOLS INSTALLATION]

```
cd istio-1.18.1/samples/addons  
kubectl apply -f samples/addons  
Or  
Kubectl apply -f .
```

```
[root@ip-172-31-80-48 addons]# Kubectl apply -f .  
bash: Kubectl: command not found  
[root@ip-172-31-80-48 addons]# kubectl apply -f .  
serviceaccount/grafana created  
configmap/grafana created  
service/grafana created  
deployment.apps/grafana created  
configmap/istio-grafana-dashboards created  
configmap/istio-services-grafana-dashboards created  
deployment.apps/jaeger created  
service/tracing created  
service/zipkin created  
service/jaeger-collector created  
serviceaccount/kiali created  
configmap/kiali created  
clusterrole.rbac.authorization.k8s.io/kiali-viewer created  
clusterrole.rbac.authorization.k8s.io/kiali created  
clusterrolebinding.rbac.authorization.k8s.io/kiali created  
role.rbac.authorization.k8s.io/kiali-controlplane created  
rolebinding.rbac.authorization.k8s.io/kiali-controlplane created  
service/kiali created  
deployment.apps/kiali created  
serviceaccount/loki created  
configmap/loki created  
configmap/loki-runtime created
```

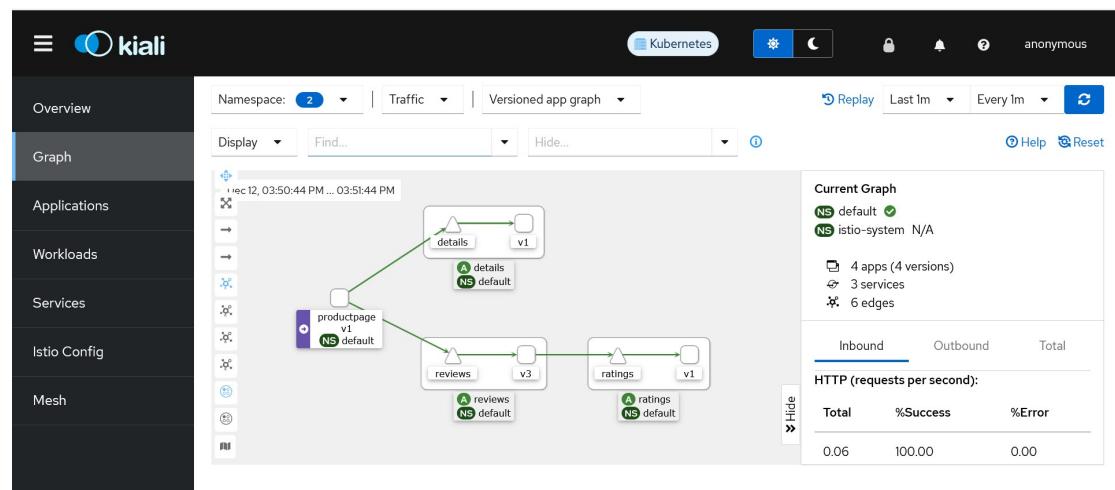
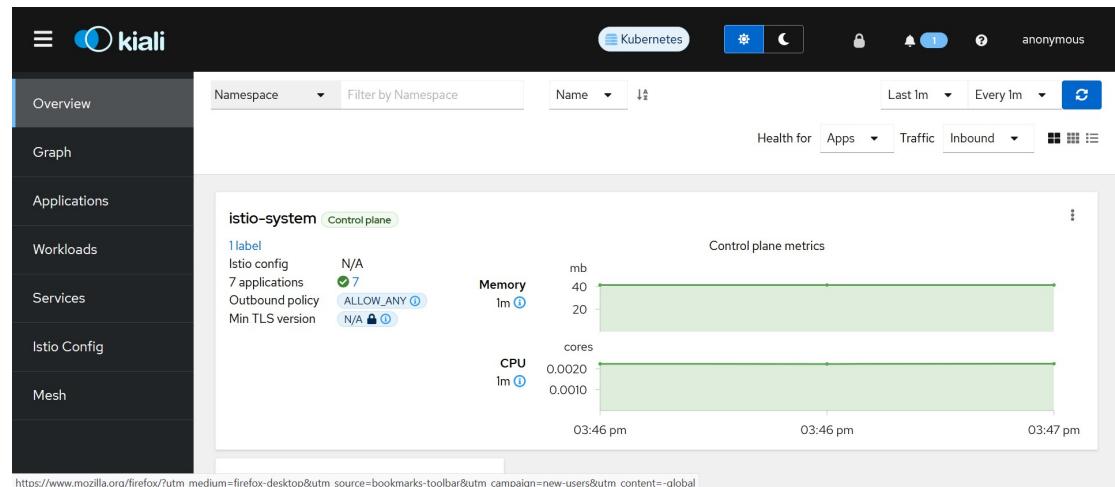
```
[root@ip-172-31-80-48 addons]# kubectl get pods  
NAME                      READY   STATUS    RESTARTS   AGE  
details-v1-7c7dbcb4b5-jn74t  2/2     Running   0          40m  
loki-0                     0/2     Pending   0          91s  
productpage-v1-664d44d68d-8lr4t  2/2     Running   0          40m  
ratings-v1-844796bf85-njzf1    2/2     Running   0          39m  
reviews-v1-5cf854487-wkprc    2/2     Running   0          39m  
reviews-v2-955b74755-jprh7    2/2     Running   0          39m  
reviews-v3-797fc48bc9-n5qbs   2/2     Running   0          39m  
[root@ip-172-31-80-48 addons]# kubectl get pods -n istio-system  
NAME                      READY   STATUS    RESTARTS   AGE  
grafana-5f9b8c6c5d-nbw4w     1/1     Running   0          2m9s  
istio-egressgateway-7d9fc46ff8-qwr2k  1/1     Running   0          88m  
istio-ingressgateway-54ffb696f6-wzrfz  1/1     Running   0          88m  
istiocd-64dd95575-s2q6d      1/1     Running   0          88m  
jaeger-db6bdfcb4-gqpbf     1/1     Running   0          2m9s  
kiali-cc67f8648-hbqvw       1/1     Running   0          2m9s  
prometheus-5d5d6d6fc-79wwc   2/2     Running   0          2m9s  
[root@ip-172-31-80-48 addons]#
```

23) DO PORT FORWARD

24) OPEN THE SG TO ALL TRAFFIC

kubectl port-forward --address 0.0.0.0 svc/kiali
9008:20001 -n istio-system

<http://54.166.61.201:9008/kiali/console/overview?duration=60&refresh=60000>



25) FOR JAEGER

kubectl port-forward --address 0.0.0.0 svc/tracing 8008:80 -n istio-system

kubectl port-forward --address 0.0.0.0 svc/tracing 8008:80 -n istio-system

<http://54.166.61.201:8008/jaeger/>

JAEGER UI Search Compare System Architecture Monitor Lookup by Trace ID... About Jaeger ▾

Search Upload

Service (5) Select A Service

Operation (0) all

Tags http.status_code=200 error=true

Lookback Last Hour

Max Duration Min Duration



Duration

40ms
20ms

03:50:50 pm 03:51:40 pm 03:52:30 pm 03:53:20 pm 03:54:10 pm

Time

20 Traces Sort: Most Recent Download Results Deep Dependency Graph

Compare traces by selecting result items

istio-ingressgateway.istio-system: productpage.default.svc.cluster.local:9080/productpage a33cb35 17.42ms

6 Spans details.default (1) istio-ingressgateway.istio-system (1) productpage.default (3)

Today

JAEGER UI Search Compare System Architecture Monitor Lookup by Trace ID... About Jaeger ▾

istio-ingressgateway.istio-system:
↳ productpage.default.svc.cluster.local:9080/
productpage a33cb35

Find... Trace Timeline ▾

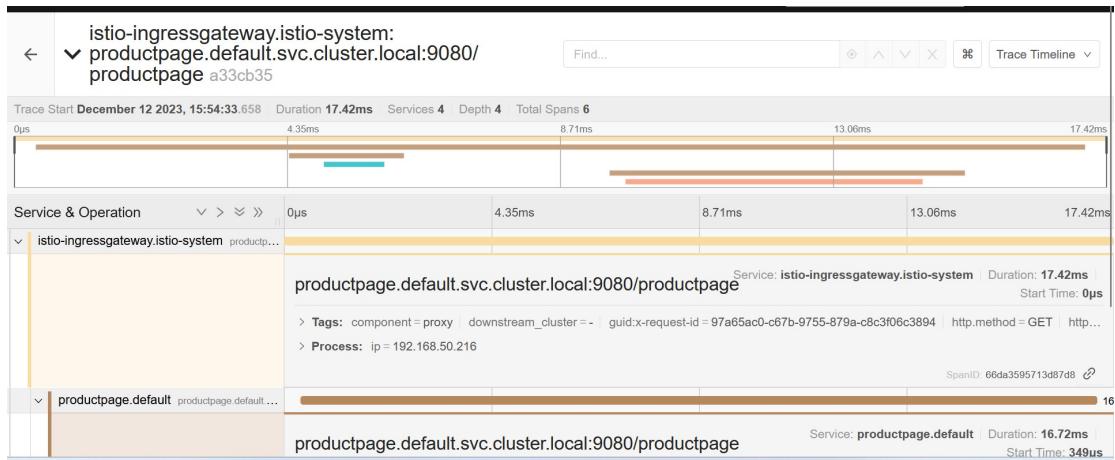
Trace Start December 12 2023, 15:54:33.658 Duration 17.42ms Services 4 Depth 4 Total Spans 6

0us 4.35ms 8.71ms 13.06ms 17.42ms

Service & Operation 0us 4.35ms 8.71ms 13.06ms 17.42ms

↳ istio-ingressgateway.istio-system productpage.default.svc.cluster.local:9080/productpage a33cb35
↳ productpage.default productpage.default.svc.cluster.local:9080/productpage a33cb35
↳ productpage.default details.default.svc.cluster.local:9080/details/default a33cb35
↳ details.default details.default.svc.cluster.local:9080/details/default a33cb35
↳ productpage.default reviews.default.svc.cluster.local:9080/reviews/default a33cb35
↳ reviews.default reviews.default.svc.cluster.local:9080/reviews/default a33cb35

1.83ms 964μs 5.66ms 4.73ms



Instance state = running | X | Clear filters | < 1 > | |

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
eksdemo1-nginx-ingress-7574555555-5q7t7	i-06783072f6fe165ff	Running		m5.large	2/2 checks passed	No alarms + us-east-1
eksdemo1-nginx-ingress-7574555555-5q7t7	i-000e6832ae3dca2b0	Running		m5.large	2/2 checks passed	No alarms + us-east-1
<input checked="" type="checkbox"/> SRE	i-0198198b1daf50520	Running		t2.medium	2/2 checks passed	No alarms + us-east-1

Delete:

DELETE NODE

```
eksctl delete nodegroup --cluster=eksdemo1 --region=us-east-1 --
name=eksdemo1-nginx-ingress
```

DELETE CLUSTER

```
eksctl delete cluster --name=eksdemo --region=us-west-1
```