

myapp

- Create a NS and enable istio-injection

```
[root@master ~]# kubectl create ns myns
namespace/myns created

[root@master ~]# kubectl label namespace myns istio-injection=enabled
namespace/myns labeled
[root@master ~]#
```

- Create a deployment

```
[root@master myapp]#
[root@master myapp]# kubectl create deployment myweb --image=nginx -n myns
deployment.apps/myweb created
[root@master myapp]#
```

- Create a service

```
[root@master myapp]# kubectl expose deployment myweb --port 80 --name mysvc -n myns
service/mysvc exposed
[root@master myapp]#
```

- Create a gateway

```
[root@master myapp]# cat my-gateway.yaml
apiVersion: networking.istio.io/v1beta1
kind: Gateway
metadata:
  name: my-gateway
  namespace: myns
spec:
  selector:
    istio: ingressgateway
  servers:
  - hosts:
    - '*'
    port:
      name: http
      number: 80
      protocol: HTTP
[root@master myapp]#

[root@master myapp]# kubectl create -f my-gateway.yaml
gateway.networking.istio.io/my-gateway created

[root@master myapp]# kubectl get gateway -n myns
NAME          AGE
my-gateway    15s
```

- Create a virtual service

```
[root@master myapp]# cat my-virtualservice.yaml
apiVersion: networking.istio.io/v1beta1
kind: VirtualService
metadata:
  name: myweb-vs
  namespace: myns
spec:
  hosts:
  - "*" # Traffic is being sent to
  gateways:
  - my-gateway # name of your edge
  http:
  - match:
    - uri:
        prefix: /
      route:
    - destination:
        host: mysvc # name of the service
        port:
            number: 80 #endpoing port -pod
[root@master myapp]#
```

```
[root@master myapp]# kubectl create -f my-virtualservice.yaml
virtualservice.networking.istio.io/myweb-vs created
```

Delay

```
fault:
  delay:
    percentage:
      value: 100.0
    fixedDelay: 7s
```

```
[root@master myapp]# kubectl apply -f my-virtualservice.yaml
Warning: kubectl apply should be used on resource created by
virtualservice.networking.istio.io/myweb-vs configured
[root@master myapp]# cat my-virtualservice.yaml
apiVersion: networking.istio.io/v1beta1
#apiVersion: networking.istio.io/v1alpha3
kind: VirtualService
metadata:
  name: myweb-vs
  namespace: myns
spec:
  hosts:
  - "*" # Traffic is being sent to
  gateways:
  - my-gateway # name of your edge
  http:
  - match:
    - uri:
        prefix: /
      fault:
        delay:
          percentage:
            value: 100.0
          fixedDelay: 10s
      route:
    - destination:
        host: mysvc # name of the service
        port:
            number: 80 #endpoing port -pod
[root@master myapp]#
```