

1. Manifest version 1

```
C:\Windows\System32\cmd.e x + v
F:\Repo\KIII\Kubernetes-Services, Ingress\ingress>vim deployment-ver1.yaml
F:\Repo\KIII\Kubernetes-Services, Ingress\ingress>type deployment-ver1.yaml
&& type CON
apiVersion: apps/v1
kind: Deployment
metadata:
  name: static-site-ver1
spec:
  replicas: 1
  selector:
    matchLabels:
      app: static-site
      version: v1
  template:
    metadata:
      labels:
        app: static-site
        version: v1
    spec:
      containers:
        - name: nginx
          image: redbfs/static-site:1.0
          ports:
            - containerPort: 80
---
apiVersion: v1
kind: Service
metadata:
  name: static-site-ver1-service
spec:
  selector:
    app: static-site
    version: v1
  ports:
    - port: 80
      targetPort: 80
```

Manifest version 2

```
C:\Windows\System32\cmd.e x + v
F:\Repo\KIII\Kubernetes-Service, Ingress\ingress>type deployment-ver2.yaml && type CON
apiVersion: apps/v1
kind: Deployment
metadata:
  name: static-site-ver2
spec:
  replicas: 1
  selector:
    matchLabels:
      app: static-site
      version: v2
  template:
    metadata:
      labels:
        app: static-site
        version: v2
    spec:
      containers:
        - name: nginx
          image: redbfs/static-site:2.0
          ports:
            - containerPort: 80
---
apiVersion: v1
kind: Service
metadata:
  name: static-site-ver2-service
spec:
  selector:
    app: static-site
    version: v2
  ports:
    - port: 80
      targetPort: 80
```

2. Applied the manifests

```
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F:\Repo\KIII\Kubernetes-Service, Ingress>cd ingress

F:\Repo\KIII\Kubernetes-Service, Ingress\ingress>kubectl apply -f deployment-ver1.yaml
deployment.apps/static-site-ver1 created
service/static-site-ver1-service created

F:\Repo\KIII\Kubernetes-Service, Ingress\ingress>kubectl apply -f deployment-ver2.yaml
deployment.apps/static-site-ver2 created
service/static-site-ver2-service created

F:\Repo\KIII\Kubernetes-Service, Ingress\ingress>kubectl get deployments
NAME                READY    UP-TO-DATE    AVAILABLE    AGE
static-site         5/5      5             5            38m
static-site-ver1    1/1      1             1            20s
static-site-ver2    1/1      1             1            13s

F:\Repo\KIII\Kubernetes-Service, Ingress\ingress>kubectl get svc
NAME                TYPE        CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
kubernetes          ClusterIP   10.96.0.1     <none>         443/TCP          39m
static-site         NodePort    10.105.79.87  <none>         80:31279/TCP     24m
static-site-ver1-service ClusterIP   10.99.69.91   <none>         80/TCP           27s
static-site-ver2-service ClusterIP   10.105.151.235 <none>         80/TCP           20s

F:\Repo\KIII\Kubernetes-Service, Ingress\ingress>|
```

3. Ingress – path based and the middleware yaml

```
ingress-path.yaml (F:\Repo\KI  X  +  v  -  □  X

apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: static-site-ingress
  annotations:
    traefik.ingress.kubernetes.io/router.entrypoints: web
    traefik.ingress.kubernetes.io/router.middlewares: default-strip-ver1@kubernetescrd,d
    default-strip-ver2@kubernetescrd
spec:
  rules:
  - host: localhost
    http:
      paths:
      - path: /ver1
        pathType: Prefix
        backend:
          service:
            name: static-site-ver1-service
            port:
              number: 80
      - path: /ver2
        pathType: Prefix
        backend:
          service:
            name: static-site-ver2-service
            port:
              number: 80
~
~
```

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```
middleware-strip.yaml (F:\Re\ x + v - □ ×  
apiVersion: traefik.containo.us/v1alpha1  
kind: Middleware  
metadata:  
  name: strip-ver1  
  namespace: default  
spec:  
  stripPrefix:  
    prefixes:  
      - /ver1  
---  
apiVersion: traefik.containo.us/v1alpha1  
kind: Middleware  
metadata:  
  name: strip-ver2  
  namespace: default  
spec:  
  stripPrefix:  
    prefixes:  
      - /ver2  
~
```

4.Updated hosts in etc/hosts

```
hosts x + - □ ×  
File Edit View  
# Copyright (c) 1993-2009 Microsoft Corp.  
#  
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.  
#  
# This file contains the mappings of IP addresses to host names. Each  
# entry should be kept on an individual line. The IP address should  
# be placed in the first column followed by the corresponding host name,  
# The IP address and the host name should be separated by at least one  
# space.  
#  
# Additionally, comments (such as these) may be inserted on individual  
# lines or following the machine name denoted by a '#' symbol.  
#  
# For example:  
#  
# 102.54.94.97 rhino.acme.com # source server  
# 38.25.63.10 x.acme.com # x client host  
#  
# localhost name resolution is handled within DNS itself.  
# 127.0.0.1 localhost  
# ::1 localhost  
# Added by Docker Desktop  
192.168.0.22 host.docker.internal  
192.168.0.22 gateway.docker.internal  
# To allow the same kube context to work on the host and the container:  
127.0.0.1 kubernetes.docker.internal  
  
127.0.0.1 ver1.123456.com  
127.0.0.1 ver2.123456.com  
  
# End of section  
  
Ln 30, Col 1 1,080 characters 100% Windows (CRLF) UTF-8 with BOM  
14°C Mostly cloudy 21:28 18/05/2025
```

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6. Host based

```
ingress-host.yaml (F:\Repo\KI) x + v
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: app-ingress-host
  annotations:
    traefik.ingress.kubernetes.io/router.entrypoints: web
spec:
  rules:
    - host: ver1.191045.com
      http:
        paths:
          - path: /
            pathType: Prefix
            backend:
              service:
                name: static-site-ver1-service
                port:
                  number: 80
    - host: ver2.191045.com
      http:
        paths:
          - path: /
            pathType: Prefix
            backend:
              service:
                name: static-site-ver2-service
                port:
                  number: 80
```

