# КИИИ Лаб 9

# Class Assignment / Homework

- Create deployments and services for two Pods:
  - One for the app version 1.0 from the last homework
  - One for the app version 2.0 from the last homework
- Create ingress pointing to the two apps:
  - path based: localhost/ver1
  - path based: localhost/ver2
  - host based: ver1.<index>.com
  - host based: ver2.<index>.com
- · Deploy manifests and ingress
- · Access the four ingress rules in your local browser

### STEP 1: Create manifests yaml

#### Deployment-1.yaml:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-static-site-v1
spec:
  replicas: 5
  selector:
    matchLabels:
      app: my-static-site-v1
  template:
    metadata:
      labels:
        app: my-static-site-v1
    spec:
      containers:
      - name: my-static-site
        image: beratahmetaj/my-static-site:1.0
        ports:
        - containerPort: 80
```

## Deployment-2.yaml:

```
apiVersion: apps/v1
kind: Deployment
metadata:
    name: my-static-site-v2
spec:
    replicas: 5
    selector:
    matchLabels:
    app: my-static-site-v2
```

```
template:
    metadata:
    labels:
        app: my-static-site-v2
spec:
    containers:
        - name: my-static-site
        image: beratahmetaj/my-static-site:2.0
        ports:
        - containerPort: 80
```

Step 2: Create 2 service manifests

#### service-v1.yaml:

```
apiVersion: v1
kind: Service
metadata:
   name: my-static-site-v1
spec:
   selector:
    app: my-static-site-v1
ports:
   - protocol: TCP
    port: 80
    targetPort: 80
```

# service-v2.yaml:

```
apiVersion: v1
kind: Service
```

```
metadata:
   name: my-static-site-v2
spec:
   selector:
    app: my-static-site-v2
ports:
    - protocol: TCP
    port: 80
    targetPort: 80
```

STEP 3: Create Ingress yaml

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: my-static-site-ingress
  annotations:
    nginx.ingress.kubernetes.io/rewrite-target: /
spec:
  rules:
  - host: "localhost"
    http:
      paths:
      - path: /ver1
        pathType: Prefix
        backend:
          service:
            name: my-static-site-v1
            port:
              number: 80
      - path: /ver2
        pathType: Prefix
        backend:
          service:
```

```
name: my-static-site-v2
          port:
            number: 80
- host: "ver1.<index>.com"
 http:
   paths:
   - path: /
      pathType: Prefix
      backend:
        service:
          name: my-static-site-v1
          port:
            number: 80
 host: "ver2.<index>.com"
 http:
   paths:
   - path: /
      pathType: Prefix
      backend:
        service:
          name: my-static-site-v2
          port:
            number: 80
```

#### STEP 4: run

```
kubectl apply -f deployment-v1.yaml
kubectl apply -f deployment-v2.yaml
kubectl apply -f service-v1.yaml
kubectl apply -f service-v2.yaml
kubectl apply -f ingress.yaml
```

#### Ingress rule

## minikube addons enable ingress

```
C:\Users\berat>minikube ip

W0602 19:52:24.667985  8336 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context "default": context "default": context "default": context "default": context not found: open C:\Users\berat\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a3
3f0688f\meta.json: The system cannot find the path specified.

X Exiting due to GUEST_STATUS: Unable to get control-plane node minikube host status: state: unknown state "minikube": cocker container inspect minikube --format={{.State.Status}}: exit status 1
stdout:

stderr:
error during connect: this error may indicate that the docker daemon is not running: Get "http://%2F%2F.%2Fpipe%2Fdocker_engine/v1.45/containers/minikube/json": open //./pipe/docker_engine: The system cannot find the file specified.

C:\Users\berat>
```

192.168.99.100 verl.verl.12345.com.com 192.168.99.100 ver2.verl.12345.com.com