

Lab 17: Ingress

Training Goals Covered:

- Use Ingress to manage external access.

Steps:

1. Enable Ingress in Minikube

None

```
minikube addons enable ingress
```

Verify that the Ingress controller is running:

None

```
kubectl get pod --all-namespaces | grep ingress
```

2. Redeploy the web-server (deploy) and the web-service (service) from the previous lab.

3. Deploy an additional service and deployment as described below.

Shell

```
kubectl apply -f <filename>.yaml
```

Create and apply an Ingress resource to route traffic to the web-service. Define the host as **myapp.local**.

Ingress NGINX Annotations

None

```
apiVersion: networking.k8s.io/v1
```

```
kind: Ingress
metadata:
  name: ingress
  annotations:
    kubernetes.io/ingress.class: nginx
    nginx.ingress.kubernetes.io/rewrite-target: /
spec:
  rules:
  - host: myapp.local
    http:
      paths:
      - path: /
        pathType: Prefix
        backend:
          service:
            name: web-service
            port:
              number: 80
      - path: /hello
        pathType: Prefix
        backend:
          service:
            name: hello-k8s
            port:
              number: 80
```

5. Test External Access

- Add the following entry to your `/etc/hosts` file (Linux/macOS) or `C:\Windows\System32\drivers\etc\hosts` (Windows):

```
None
127.0.0.1 myapp.local
```

- **Only if you are in a MAC (in Linux skip this command)**

None

```
minikube tunnel
```

- Open a browser and visit:

None

<http://myapp.local>

<http://myapp.local/hello>