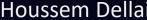
Securing Ingress

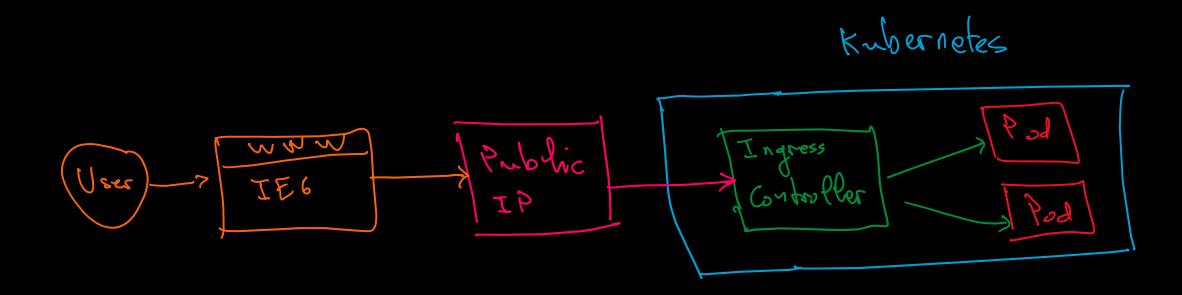




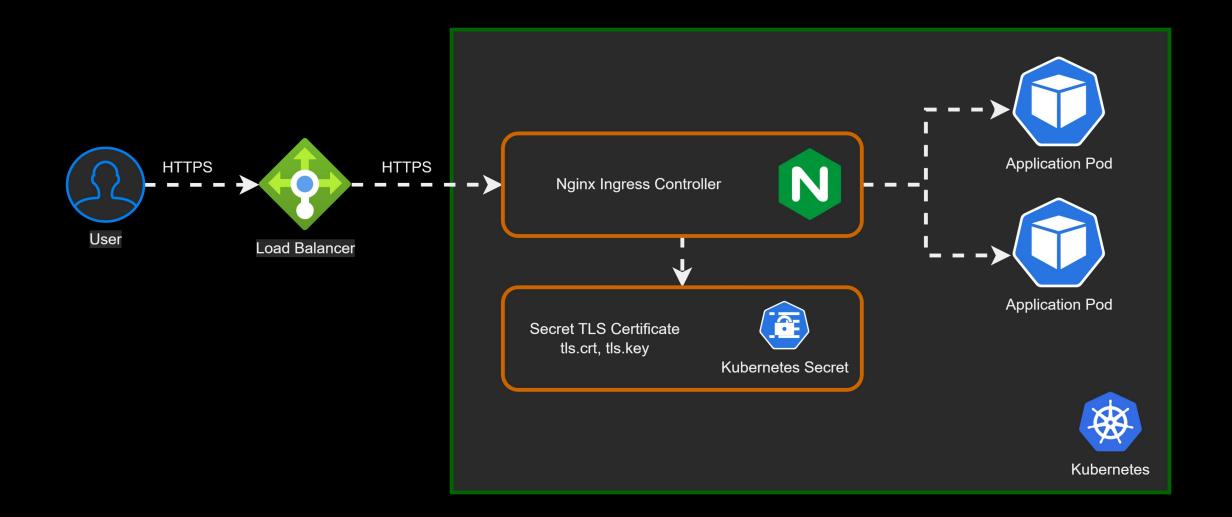
How to expose an application (Pods) in Kubernetes?

Kubernetes defines the API (spec) for ingress resource.

But we need to install a tool that implements that spec; it is called ingress controller.



Ingress Controller using TLS - HTTPS



Ingress and TLS certificate

```
apiVersion: v1
kind: Secret
metadata:
name: tls-ingress-app-02-secret
namespace: app-02
type: kubernetes.io/tls
data:
tls.crt: >-
LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS...
tls.key: >-
LS0tLS1CRUdJTiBQUklWQVRFIEtFWS0...
```

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: hello-world-ingress
  namespace: app-02
spec:
  ingressClassName: nginx
  tls:
  - hosts:
    - aks-app-02.westeurope.cloudapp.azure.com
    secretName: tls-ingress-app-02-secret
  rules:
  - host: aks-app-02.westeurope.cloudapp.azure.com
    http:
      paths:
      - path: /hello-world-one(/|$)(.*)
        pathType: Prefix
        backend:
          service:
            name: aks-helloworld-one
            port:
              number: 80
      - path: /hello-world-two(/|$)(.*)
        pathType: Prefix
        backend:
          service:
            name: aks-helloworld-two
            port:
              number: 80
```