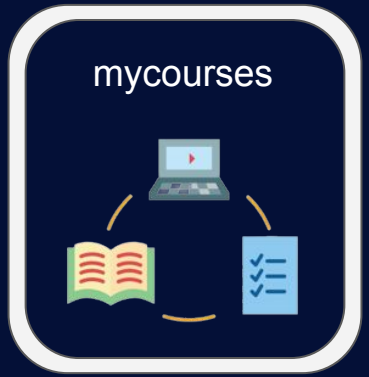
Ingress In Kubernetes

DevOps Engineer



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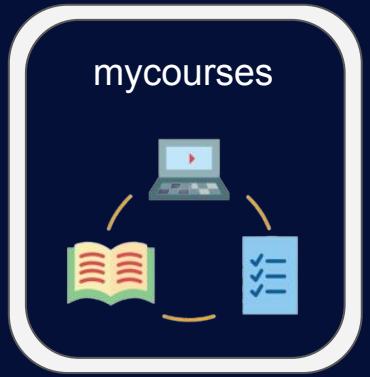

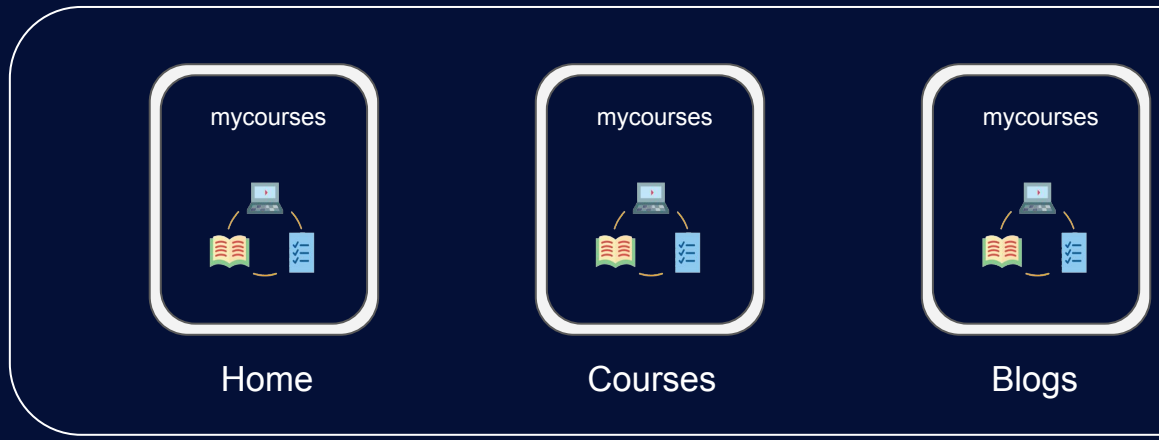

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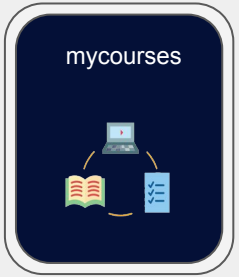

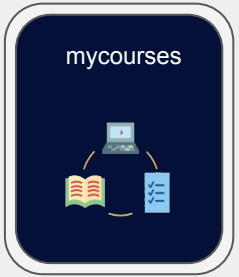

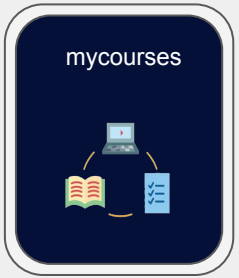

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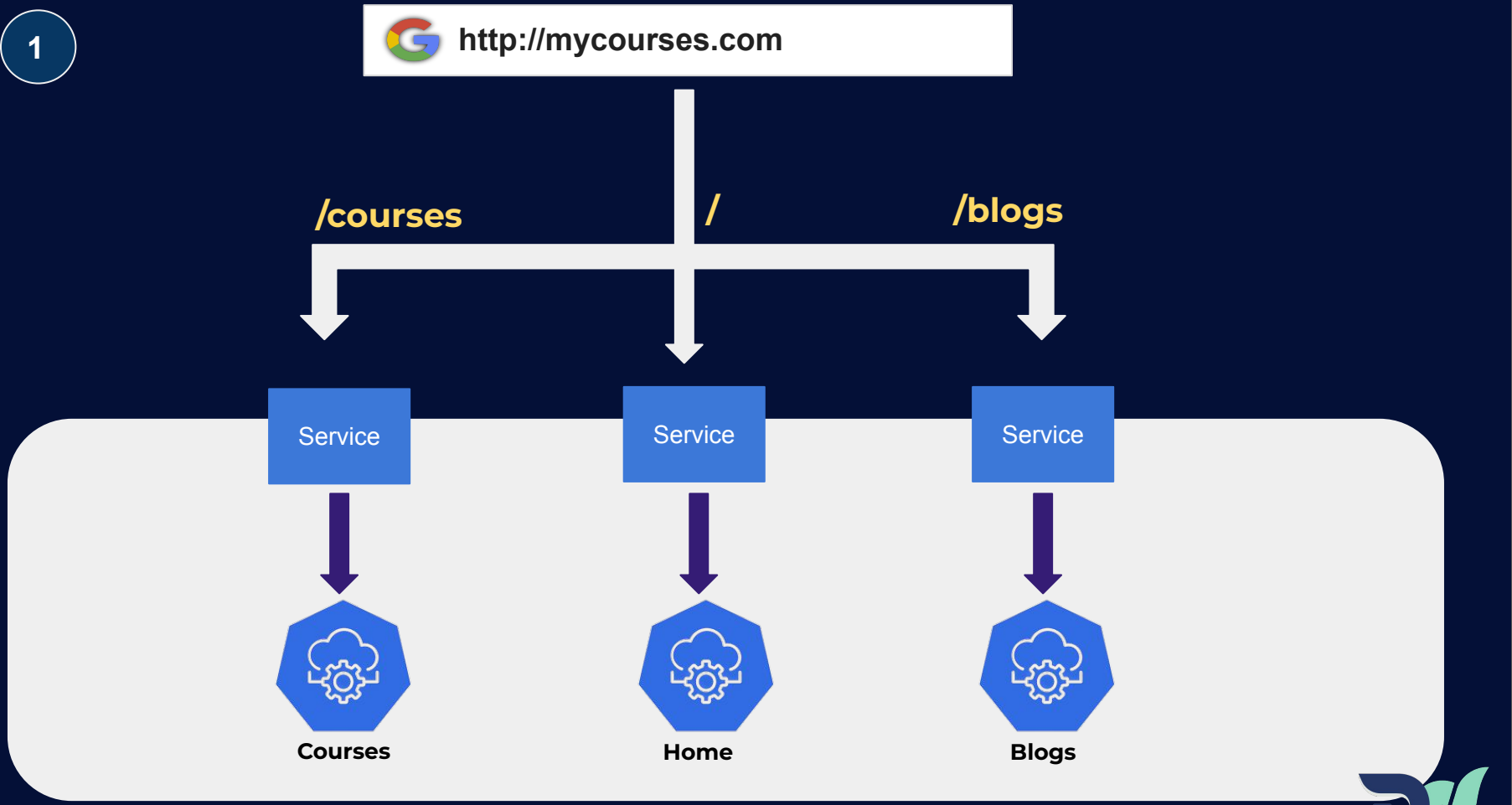
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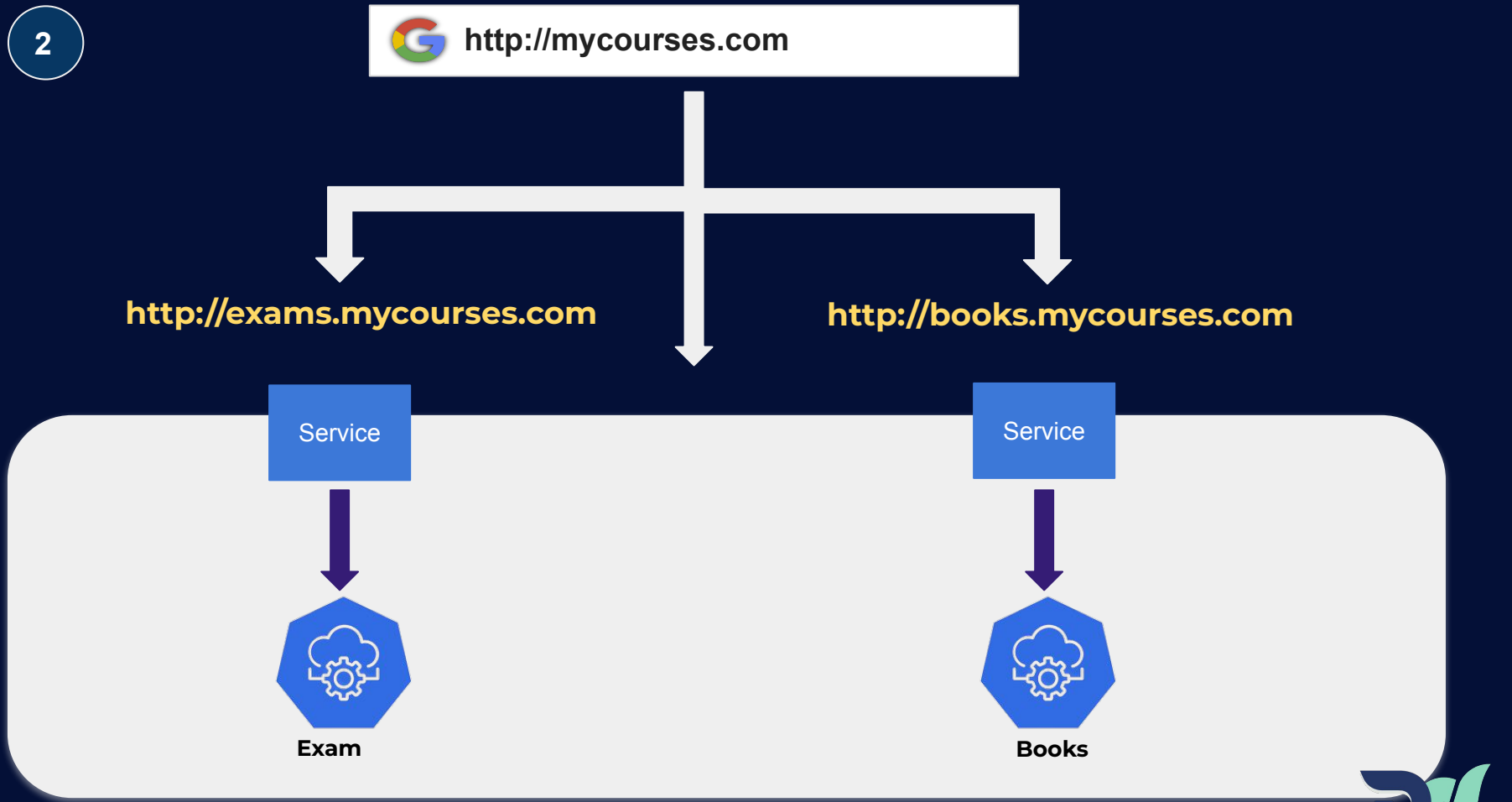
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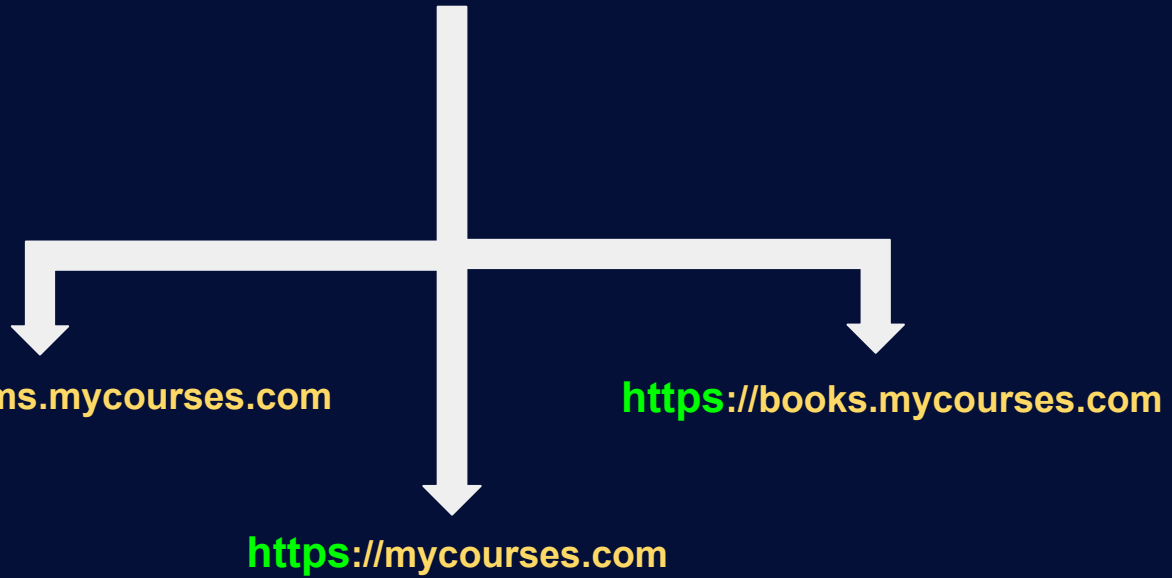
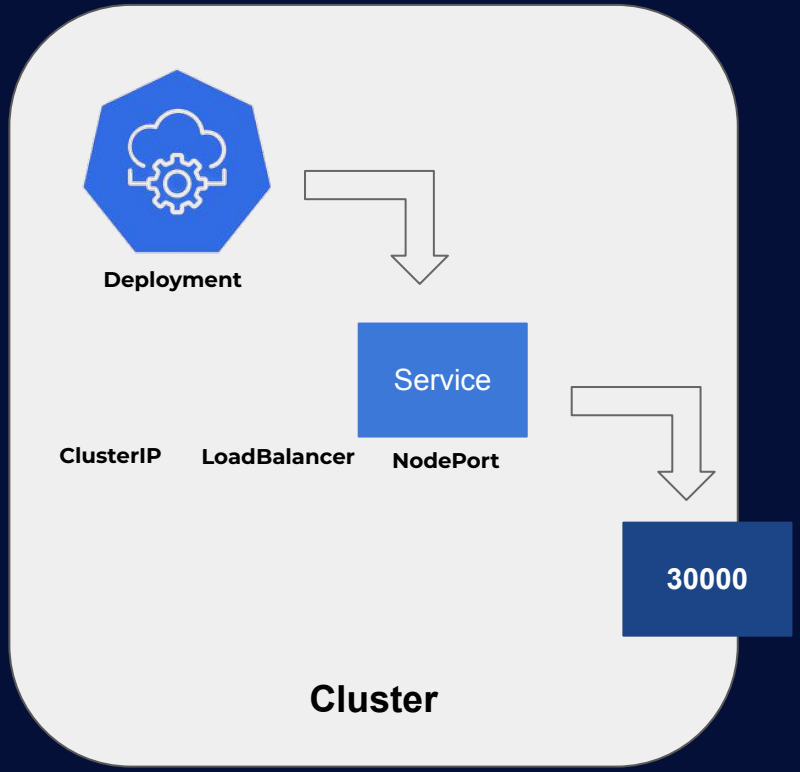
3

SSL termination



Key Points

1. Path-based Routing
2. Host-based Routing
3. SSL Termination



http://IP:Port

http://67.23.45.67:30000

Ingress

API Object In Kubernetes

- Expose HTTP and HTTPS routes from outside the cluster
- Path-based and Host-based Routing
- Load Balancing and SSL Termination

Ingress

Ingress Controller

Nginx Controller

Citrix ingress controller

Voyager

Istio Ingress

Contour Controller

Traefik

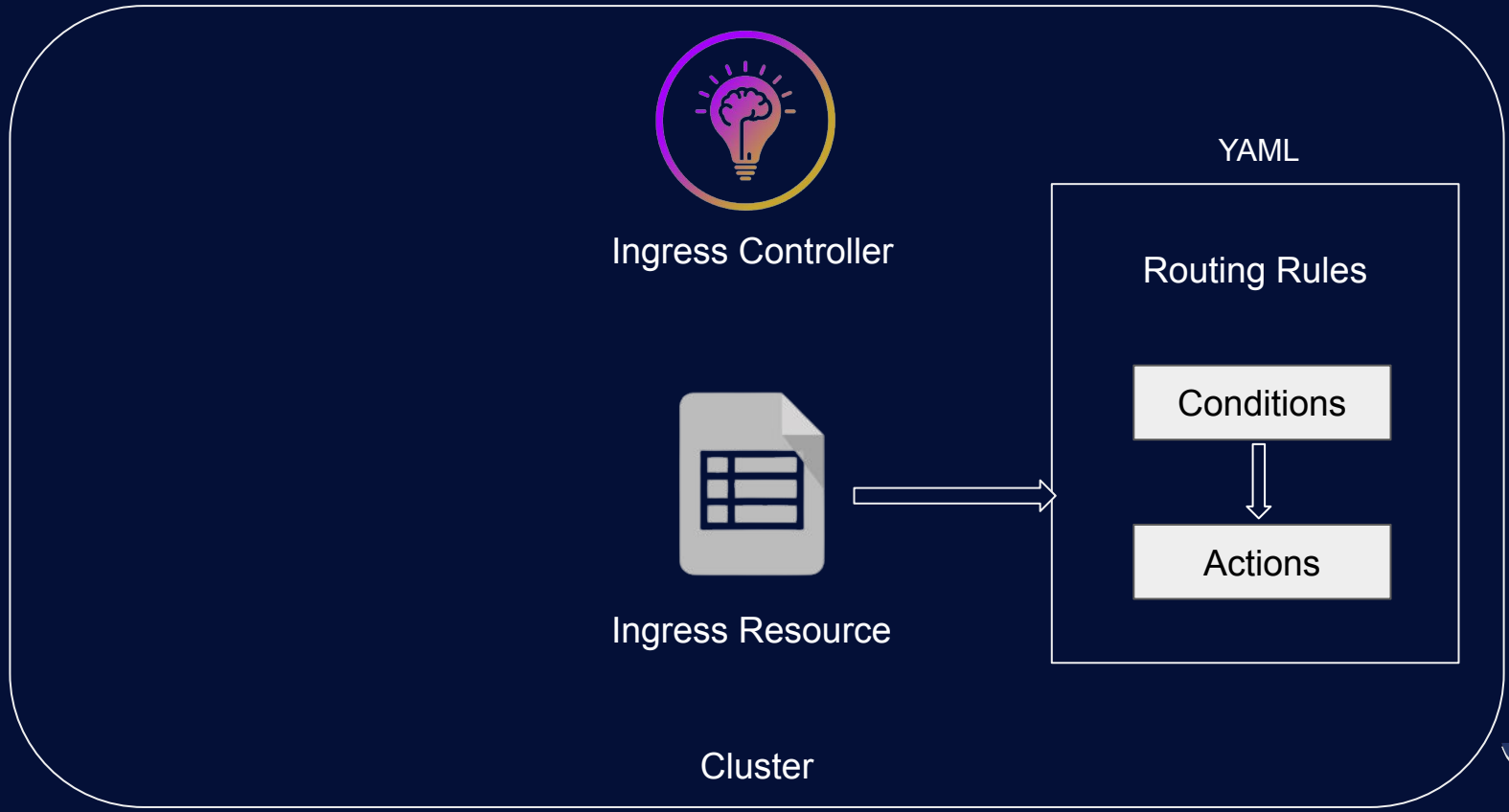
Apache APISIX

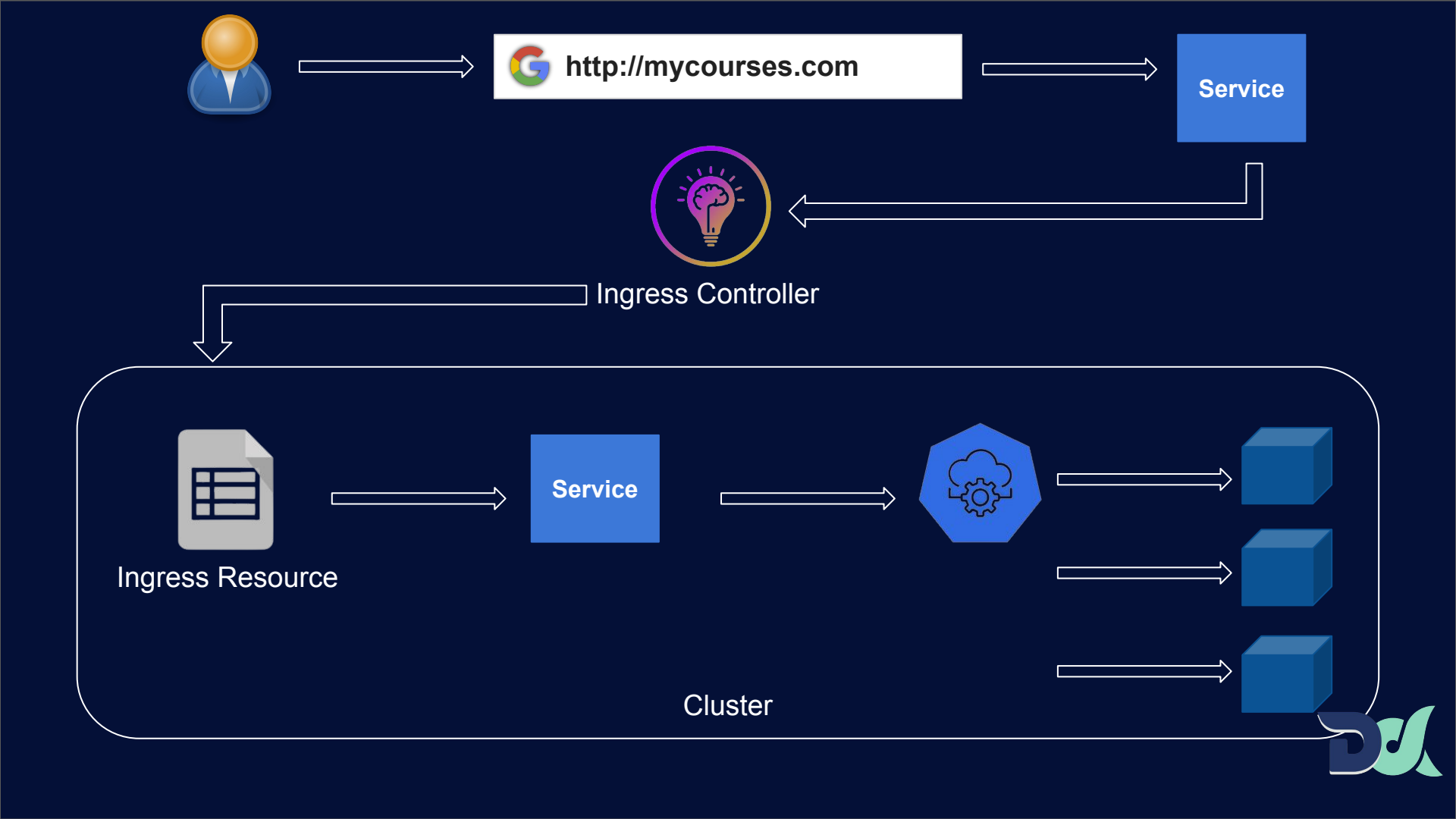
HAProxy Ingress

Wallarm

Cluster

Ingress


Ingress Controller
YAML
Routing Rules
Conditions
Actions
Ingress Resource
Cluster


http://mycourses.com
Service
Ingress Controller
Ingress Resource
Service
Cluster

Ingress Resource File

```yaml
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: example-ingress
spec:
  rules:
  - host: "mycourses.com"
    http:
      paths:
      - pathType: Prefix
        path: /
        backend:
          service:
            name: home-service
            port:
              number: 8080
      - pathType: Prefix
        path: /courses
        backend:
          service:
            name: course-service
            port:
              number: 8181
```