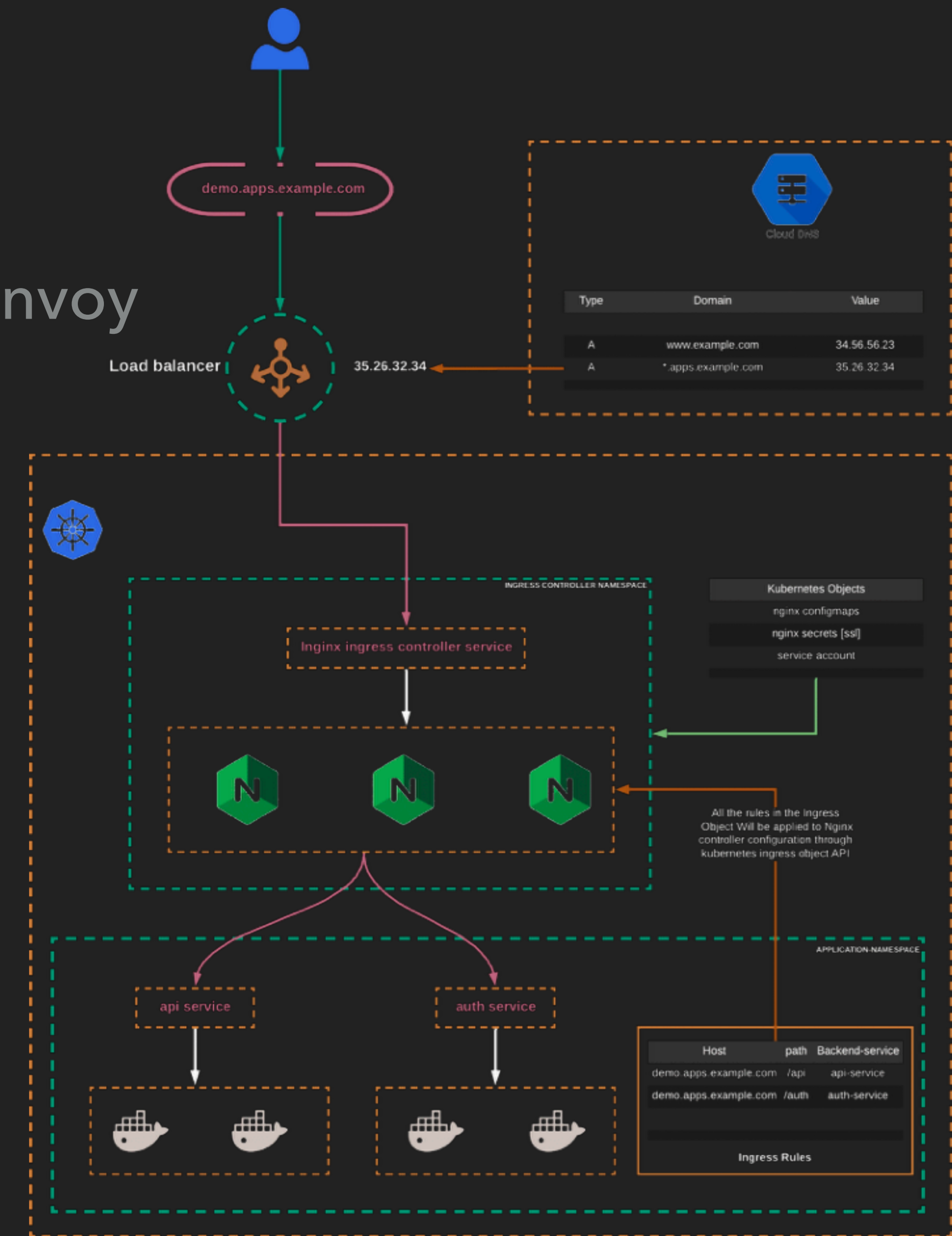# EXPERT LEVEL: INGRESS CONTROLLER

▸ 99,9% of the time simply use ingress-nginx or envoy

▸ Domain Auto discovery

▸ Certificates can be issued automatically

▸ High performance

▸ Works on URL paths

INGRESS

```
1      ---
2      apiVersion: networking.k8s.io/v1
3      kind: Ingress
4      metadata:
5        name: tailnet-ingress
6        annotations:
7          ingress.kubernetes.io/rewrite-target: /
8          kubernetes.io/ingress.class: nginx
9          cert-manager.io/cluster-issuer: "letsencrypt-prod"
10     spec:
11       rules:
12       - host: test.cedi.dev
13         http:
14           paths:
15             - path: /
16               pathType: Prefix
17               backend:
18                 service:
19                   name: kuard-service
20                   port:
21                     number: 80
22       tls:
23       - secretName: test-ts-secret
24         hosts:
25           - test.cedi.dev
```

```
1      apiVersion: v1
2      kind: Service
3      metadata:
4        name: kuard-service
5      spec:
6        selector:
7          app: kuard
8        ports:
9        - port: 80
10         targetPort: 8080
```

```
1      apiVersion: apps/v1
2      kind: Deployment
3      metadata:
4        name: kuard-deployment
5        labels:
6          app: kuard
7      spec:
8        replicas: 3
9        selector:
10         matchLabels:
11           app: kuard
12       template:
13         metadata:
14           labels:
15             app: kuard
16         spec:
17           containers:
18             - image: gcr.io/kuar-demo/kuard-amd64:blue
19               name: kuard
20               ports:
21                 - containerPort: 8080
22                   name: http
```

CLIENT → LB → INGRESS → SERVICE → POD