

Sesión 12 : k8s

k8s

- traefik como ingress controller:

[traefik-rbac.yaml](#)

```
---
kind: ClusterRole
apiVersion: rbac.authorization.k8s.io/v1beta1
metadata:
  name: traefik-ingress-controller
rules:
  - apiGroups:
    - ""
    resources:
      - services
      - endpoints
      - secrets
    verbs:
      - get
      - list
      - watch
  - apiGroups:
    - extensions
    resources:
      - ingresses
    verbs:
      - get
      - list
      - watch
---
kind: ClusterRoleBinding
apiVersion: rbac.authorization.k8s.io/v1beta1
metadata:
  name: traefik-ingress-controller
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
  name: traefik-ingress-controller
subjects:
- kind: ServiceAccount
  name: traefik-ingress-controller
  namespace: kube-system
```

[traefik-daemonset.yaml](#)

```
---
apiVersion: v1
kind: ServiceAccount
```

```
metadata:
  name: traefik-ingress-controller
  namespace: kube-system
---
kind: DaemonSet
apiVersion: extensions/v1beta1
metadata:
  name: traefik-ingress-controller
  namespace: kube-system
  labels:
    k8s-app: traefik-ingress-lb
spec:
  template:
    metadata:
      labels:
        k8s-app: traefik-ingress-lb
        name: traefik-ingress-lb
    spec:
      serviceAccountName: traefik-ingress-controller
      terminationGracePeriodSeconds: 60
      containers:
        - image: traefik
          name: traefik-ingress-lb
          ports:
            - name: http
              containerPort: 80
              hostPort: 80
            - name: admin
              containerPort: 8080
              hostPort: 8080
          securityContext:
            capabilities:
              drop:
                - ALL
              add:
                - NET_BIND_SERVICE
          args:
            - --api
            - --kubernetes
            - --logLevel=INFO
---
kind: Service
apiVersion: v1
metadata:
  name: traefik-ingress-service
  namespace: kube-system
spec:
  selector:
    k8s-app: traefik-ingress-lb
  ports:
    - protocol: TCP
      port: 80
      name: web
    - protocol: TCP
      port: 8080
```

```
name: admin
```

esta versión no se ha desplegado correctamente VS la anterior

traefik-deployment.yaml

```
---
apiVersion: v1
kind: ServiceAccount
metadata:
  name: traefik-ingress-controller
  namespace: kube-system
---
kind: Deployment
apiVersion: extensions/v1beta1
metadata:
  name: traefik-ingress-controller
  namespace: kube-system
  labels:
    k8s-app: traefik-ingress-lb
spec:
  replicas: 1
  selector:
    matchLabels:
      k8s-app: traefik-ingress-lb
  template:
    metadata:
      labels:
        k8s-app: traefik-ingress-lb
        name: traefik-ingress-lb
    spec:
      serviceAccountName: traefik-ingress-controller
      terminationGracePeriodSeconds: 60
      containers:
        - image: traefik
          name: traefik-ingress-lb
          ports:
            - name: http
              containerPort: 80
            - name: admin
              containerPort: 8080
          args:
            - --api
            - --kubernetes
            - --logLevel=INFO
---
kind: Service
apiVersion: v1
metadata:
  name: traefik-ingress-service
  namespace: kube-system
spec:
  selector:
    k8s-app: traefik-ingress-lb
  ports:
```

```
- protocol: TCP
  port: 80
  name: web
- protocol: TCP
  port: 8080
  name: admin
type: NodePort
```

lab (who)

<https://medium.com/@geraldcroes/kubernetes-traefik-101-when-simplicity-matters-957eeede2cf8>

whoami-deployment.yaml

```
apiVersion: extensions/v1beta1
kind: Deployment
metadata:
  name: whoami-deployment
spec:
  replicas: 1
  selector:
    matchLabels:
      app: whoami
  template:
    metadata:
      labels:
        app: whoami
    spec:
      containers:
        - name: whoami-container
          image: containous/whoami
```

whoami-service.yaml

```
apiVersion: v1
kind: Service
metadata:
  name: whoami-service
spec:
  ports:
    - name: http
      targetPort: 80
      port: 80
  selector:
    app: whoami
```

whoami-ingress.yaml

```
apiVersion: extensions/v1beta1
kind: Ingress
```

```
metadata:
  name: whoami-ingress
  annotations:
    kubernetes.io/ingress.class: traefik
spec:
  rules:
  - host: whoami.localhost
    http:
      paths:
      - path: /
        backend:
          serviceName: whoami-service
          servicePort: http
```

si queremos NO tocar el localhost para que resuelva **whoami.localhost**, podemos lanzar este comando: `curl -H 'Host: whoami.localhost' 192.168.99.100`

también podemos usar <http://nip.io>:

[whoami-ingress.yaml](#)

```
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
  name: whoami-ingress
  annotations:
    kubernetes.io/ingress.class: traefik
spec:
  rules:
  - host: whoami-192-168-99-100.nip.io
    http:
      paths:
      - path: /
        backend:
          serviceName: whoami-service
          servicePort: http
```

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