

Avec Cilium

Cette documentation ne peut être exécutée uniquement sur un cluster ayant pour réseau Cilium.

Déclaration de la pool possible d'IP VIP :

```
cat <<EOF | kubectl apply -f -
apiVersion: cilium.io/v2alpha1
kind: CiliumLoadBalancerIPPool
metadata:
  name: worker-vip-pool
spec:
  blocks:
    - start: "192.168.1.2"
      stop: "192.168.1.9"
  serviceSelector:
    matchLabels:
      expose: "true"
EOF
```

Déclaration de la mise en réseau :

```
cat <<EOF | kubectl apply -f -
apiVersion: cilium.io/v2alpha1
kind: CiliumL2AnnouncementPolicy
metadata:
  name: worker-l2-policy
  namespace: kube-system
spec:
  nodeSelector:
    matchLabels:
      node-role.kubernetes.io/worker: "true"
  serviceSelector:
    matchLabels:
```

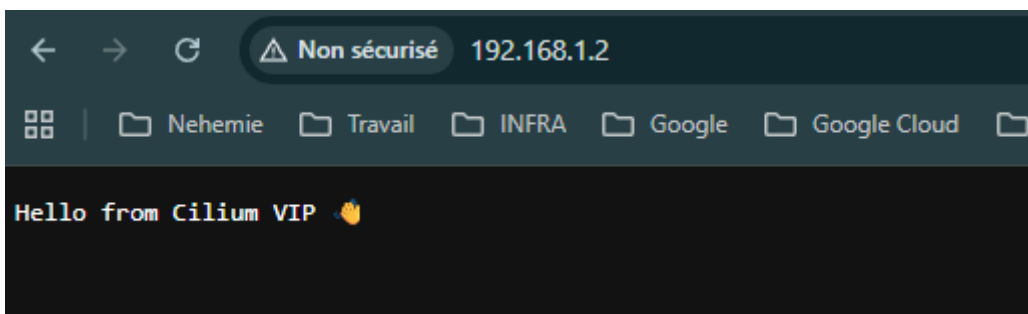
```
    expose: "true"
loadBalancerIPs: true
externalIPs: false
interfaces:
  - ens18
EOF
```

Exemple de déploiement et de service permettant d'exposer un pod web via une VIP :

```
cat <<EOF | kubectl apply -f -
apiVersion: apps/v1
kind: Deployment
metadata:
  name: hello-world
  namespace: default
spec:
  replicas: 2
  selector:
    matchLabels:
      app: hello-world
  template:
    metadata:
      labels:
        app: hello-world
    spec:
      containers:
        - name: hello
          image: hashicorp/http-echo:latest
          args:
            - "-text=Hello from Cilium VIP ☐☐"
            - "-listen=:8080"
          ports:
            - containerPort: 8080
---
apiVersion: v1
kind: Service
metadata:
  name: hello-world
  namespace: default
labels:
```

```
expose: "true"
annotations:
  lbipam.cilium.io/ips: "192.168.1.2" # IP fixe dans le pool
spec:
  type: LoadBalancer
  selector:
    app: hello-world
  ports:
    - port: 80
      targetPort: 8080
EOF
```

Résultat :



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