

kube-vip DaemonSet als Ersatz für Metalb

kube-vip DaemonSet

Worker Nodes markieren.

```
kubectl label node worker1-<userid> node-role.kubernetes.io/worker=""  
kubectl label node worker2-<userid> node-role.kubernetes.io/worker=""
```

RBAC.yml

```
apiVersion: v1  
kind: ServiceAccount  
metadata:  
  name: kube-vip  
  namespace: kube-system  
---  
apiVersion: rbac.authorization.k8s.io/v1  
kind: ClusterRole  
metadata:  
  annotations:  
    rbac.authorization.kubernetes.io/autoupdate: "true"  
  name: system:kube-vip-role  
rules:  
  - apiGroups: [""]  
    resources: ["services/status"]  
    verbs: ["update"]  
  - apiGroups: [""]  
    resources: ["services", "endpoints"]  
    verbs: ["list", "get", "watch", "update"]  
  - apiGroups: [""]  
    resources: ["nodes"]  
    verbs: ["list", "get", "watch", "update", "patch"]  
  - apiGroups: ["coordination.k8s.io"]  
    resources: ["leases"]  
    verbs: ["list", "get", "watch", "update", "create"]  
  - apiGroups: ["discovery.k8s.io"]  
    resources: ["endpointslices"]  
    verbs: ["list", "get", "watch", "update"]  
  - apiGroups: [""]  
    resources: ["pods"]  
    verbs: ["list"]  
---  
kind: ClusterRoleBinding  
apiVersion: rbac.authorization.k8s.io/v1  
metadata:  
  name: system:kube-vip-binding
```

```
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
  name: system:kube-vip-role
subjects:
- kind: ServiceAccount
  name: kube-vip
  namespace: kube-system
```

daemonset.yml

```
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: kube-vip
  namespace: kube-system
spec:
  selector:
    matchLabels:
      app: kube-vip
  template:
    metadata:
      labels:
        app: kube-vip
    spec:
      containers:
        - name: kube-vip
          image: ghcr.io/kube-vip/kube-vip:v0.9.0
          args:
            - manager
          env:
            - name: vip_arp
              value: "true"
            - name: vip_nodename
              valueFrom:
                fieldRef:
                  fieldPath: spec.nodeName
            - name: vip_interface
              value: ens3
            - name: vip_cidr
              value: "32"
            - name: dns_mode
              value: first
            - name: svc_enable
              value: "true"
            - name: svc_leasename
              value: plndr-svcs-lock
            - name: vip_leaderelection
              value: "true"
            - name: vip_leasename
```

```
    value: plndr-cp-lock
  - name: vip_leaseduration
    value: "60"
  - name: vip_renewdeadline
    value: "45"
  - name: vip_retryperiod
    value: "15"
  - name: lb_enable
    value: "true"
imagePullPolicy: IfNotPresent
name: kube-vip
resources: {}
securityContext:
  capabilities:
    add:
      - NET_ADMIN
      - NET_RAW
hostNetwork: true
serviceAccountName: kube-vip
# Nur auf Worker Nodes laufen:
nodeSelector:
  node-role.kubernetes.io/worker: ""
tolerations:
  - operator: Exists
```

Service Manifest als Beispiel

svc-homepage.yml

```
apiVersion: v1
kind: Service
metadata:
  creationTimestamp: null
  labels:
    app: svc-homepage
  name: svc-homepage
  namespace: webserver
spec:
  allocateLoadBalancerNodePorts: true
  loadBalancerIP: <dig ingress-<userid>.training.lab>
  ports:
    - name: "80"
      port: 80
      protocol: TCP
      targetPort: 80
  selector:
    run: nginx
  type: LoadBalancer
status:
  loadBalancer: {}
```

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