



DECKHOUSE

**Kubernetes
Platform**

MetalLB (L2 mode) Basics

MetalLB L2 mode

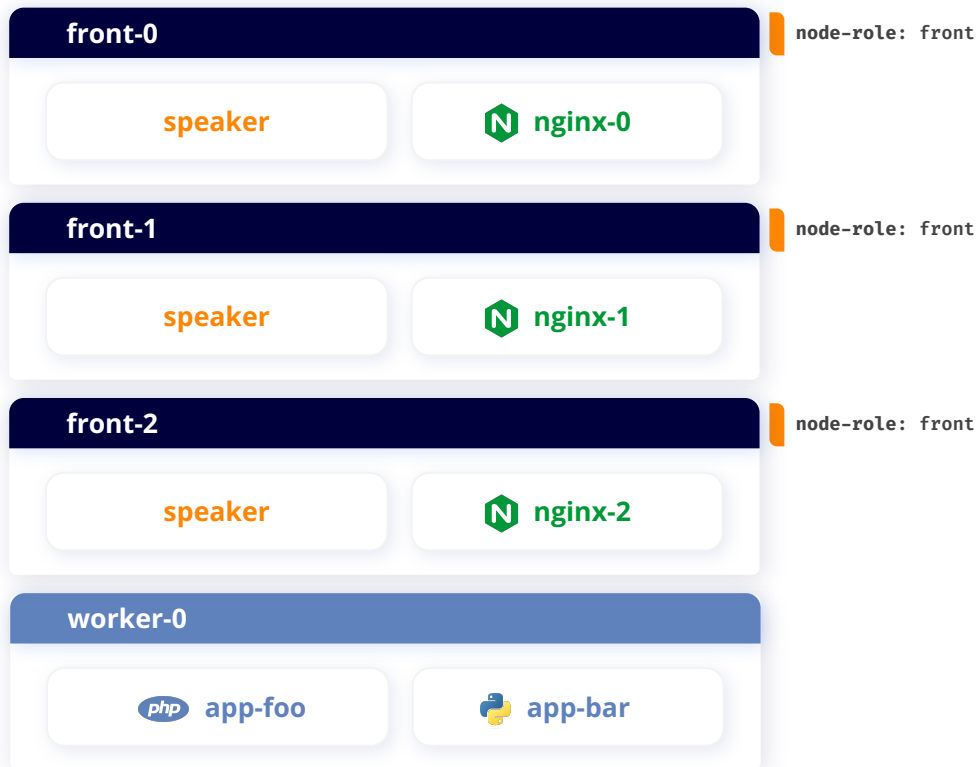


There are three frontends nodes and one worker in the cluster.

MetalLB L2 mode



```
apiVersion: metallb.io/v1beta1
kind: IPAddressPool
metadata:
  name: mypool
  namespace: metallb-system
spec:
  addresses:
    - 192.168.122.100/24
---
apiVersion: metallb.io/v1beta1
kind: L2Advertisement
metadata:
  name: l2-advert
  namespace: metallb-system
spec:
  ipAddressPools:
    - mypool
  nodeSelectors:
    - matchLabels:
        node-role: front
```



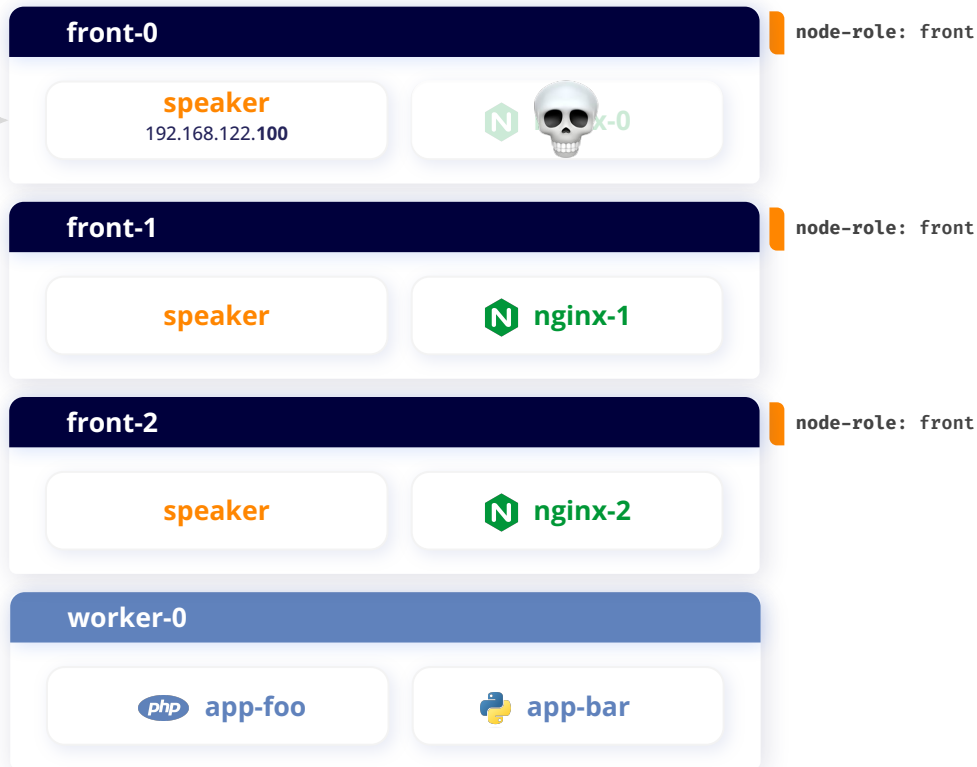
We turn on standard MetalLB in L2 mode.
Speaker is deployed on each frontend node for address announcement.

MetalLB L2 mode



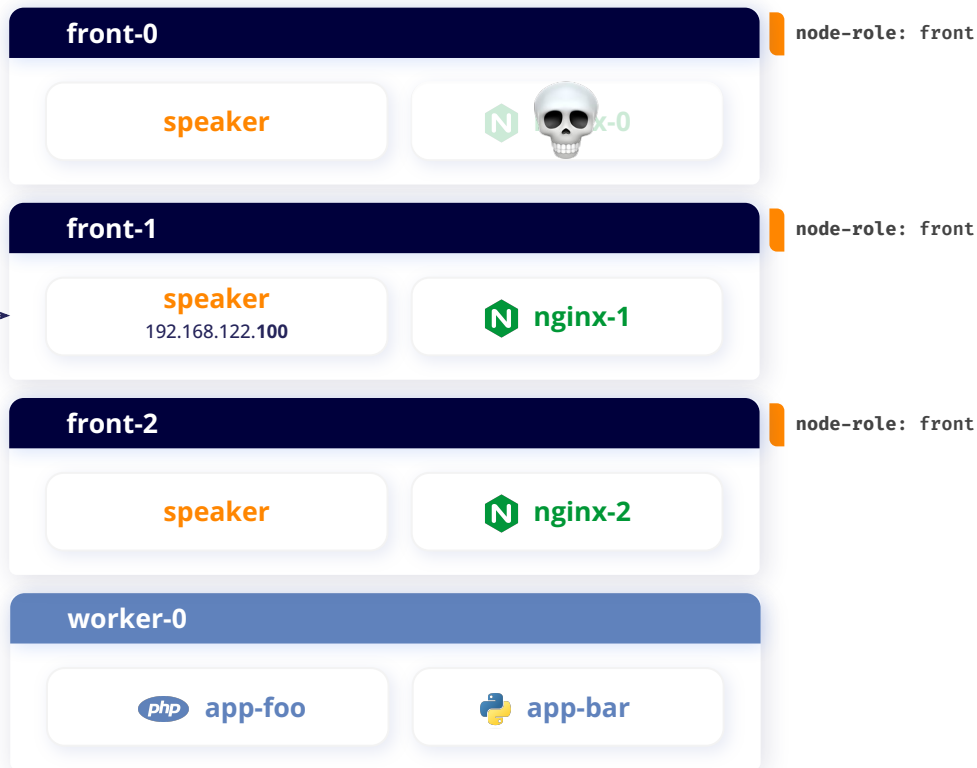
A Service of type LoadBalancer has been created to serve the "nginx" frontend. The service has been allocated a "public" IP of 192.168.122.100, which is used in application DNS-name. The node front-0 has been selected as the leader, and now it alone handles all requests.

MetalLB L2 mode



In the event of a failure of the nginx application on the leader node or of the node itself, all requests are interrupted...

MetalLB L2 mode



...and a new leader node is elected.