



DECKHOUSE

**Kubernetes
Platform**

MetalLB (L2 mode) Basics

MetalLB layer2

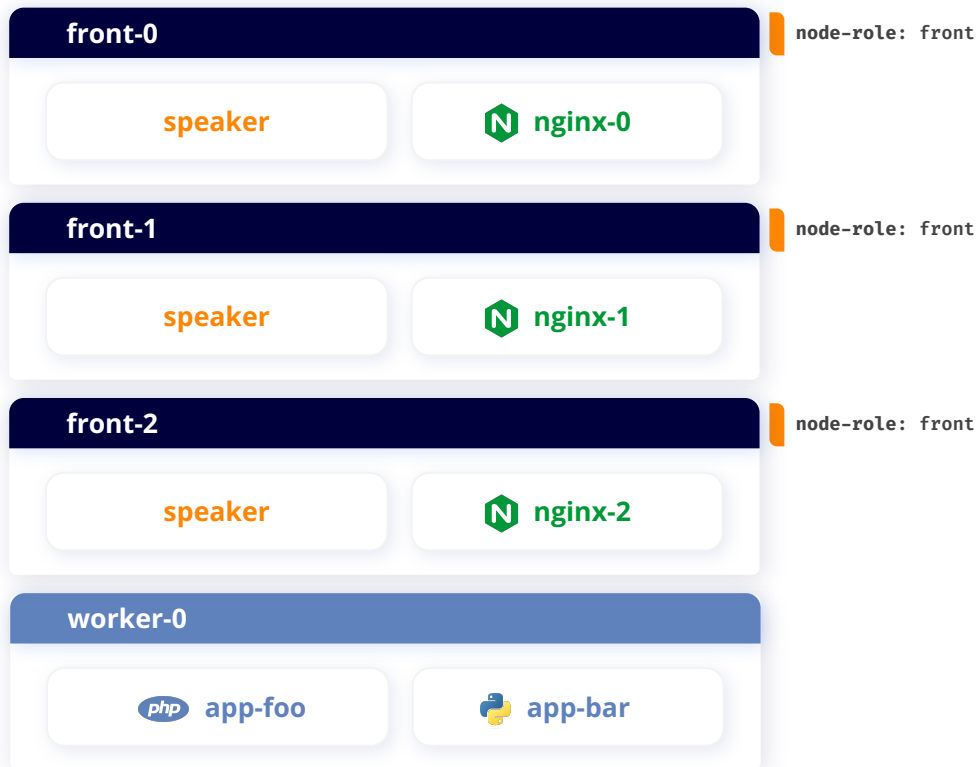


There are three frontends nodes and one worker in the cluster.

MetalLB layer2

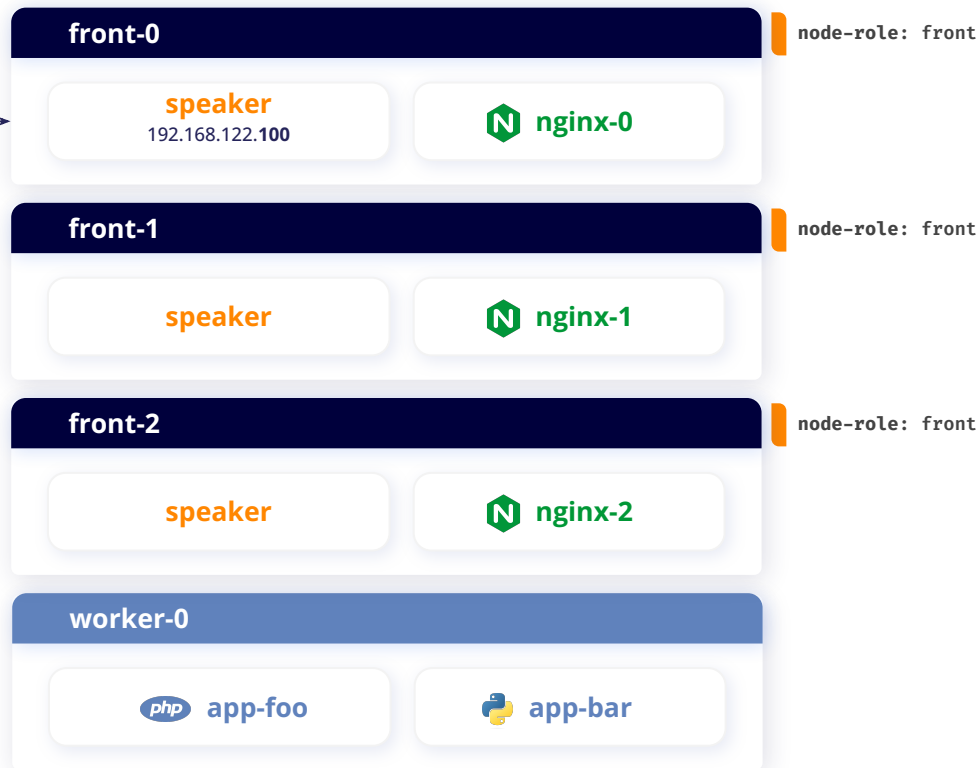


```
apiVersion: deckhouse.io/v1alpha1
kind: ModuleConfig
name: metallb
spec:
  enabled: true
  settings:
    addressPools:
      - addresses:
          - 192.168.122.100/24
            name: mypool
            protocol: layer2
        speaker:
            nodeSelector:
              node-role/front: ""
  version: 1
```



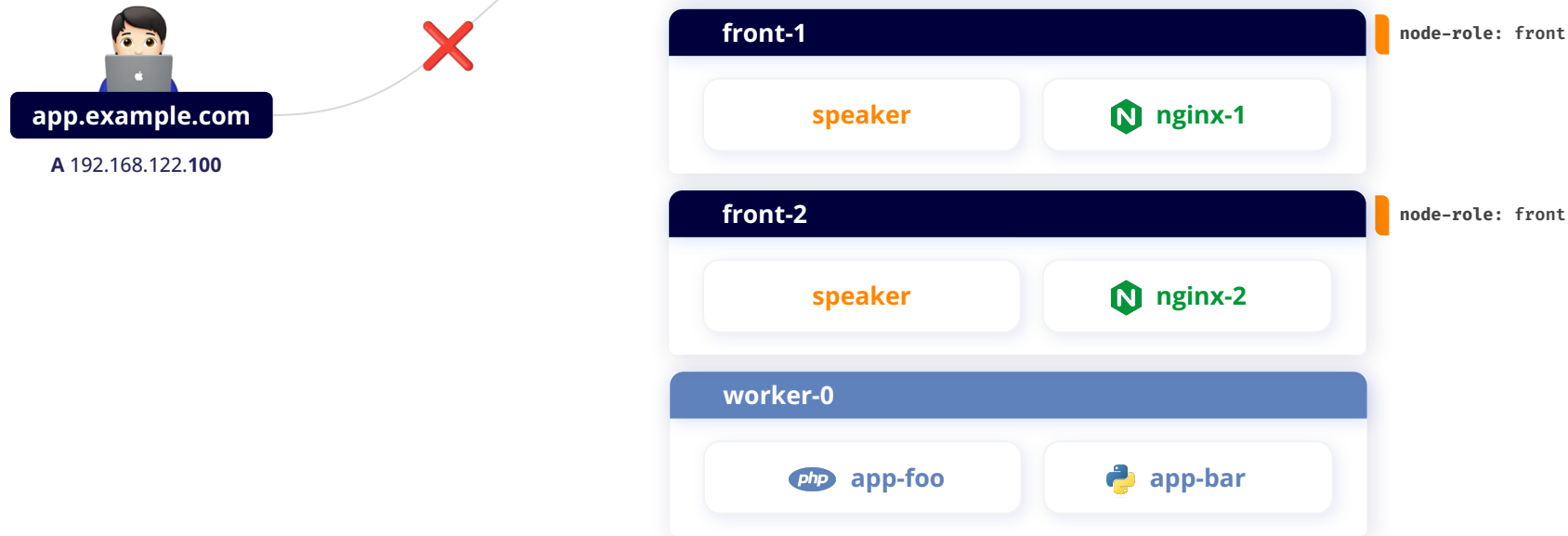
We turn on **metallb** module in L2 mode.
Speaker is deployed on each frontend-nodes for address announcement.

MetalLB layer2



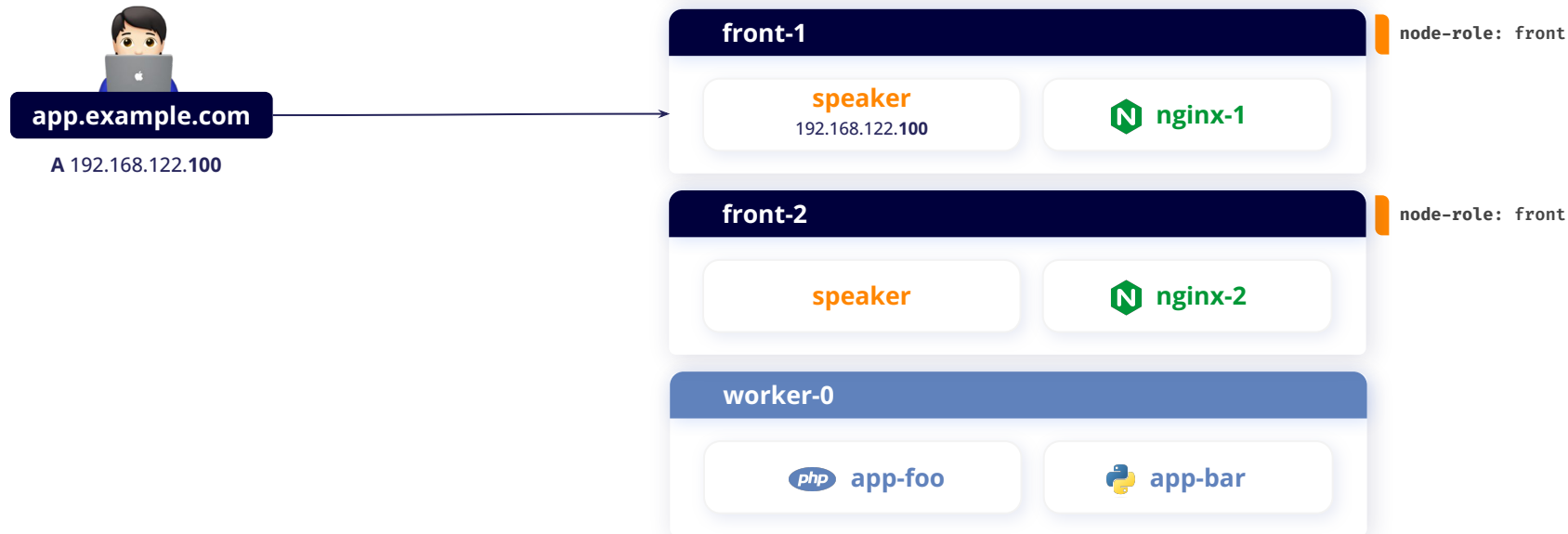
A Service of type LoadBalancer has been created to serve the "nginx" frontend. The service has been allocated a "public" IP of 192.168.122.100, which is used in application DNS-name. The node front-0 has been selected as the leader, and now it alone handles all requests.

MetalLB layer2



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

MetalLB layer2



...and a new leader node is elected.