

Trilha Containers

A melhor forma de rodar uma aplicação

Explorando o Funcionamento da Kubernetes Network



Bruno S. Brasil

Site Reliability Engineering

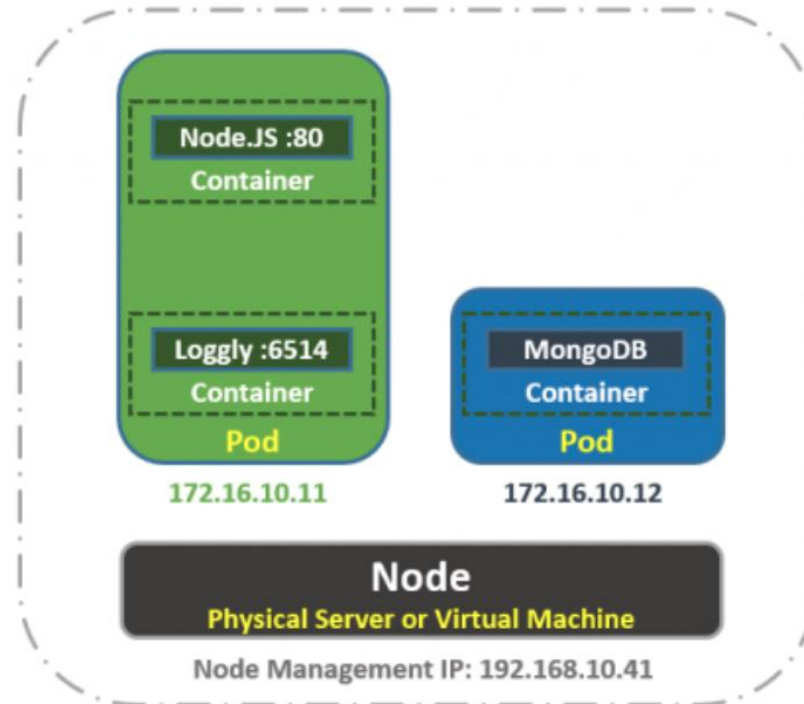
getup



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PODs

The Work Units



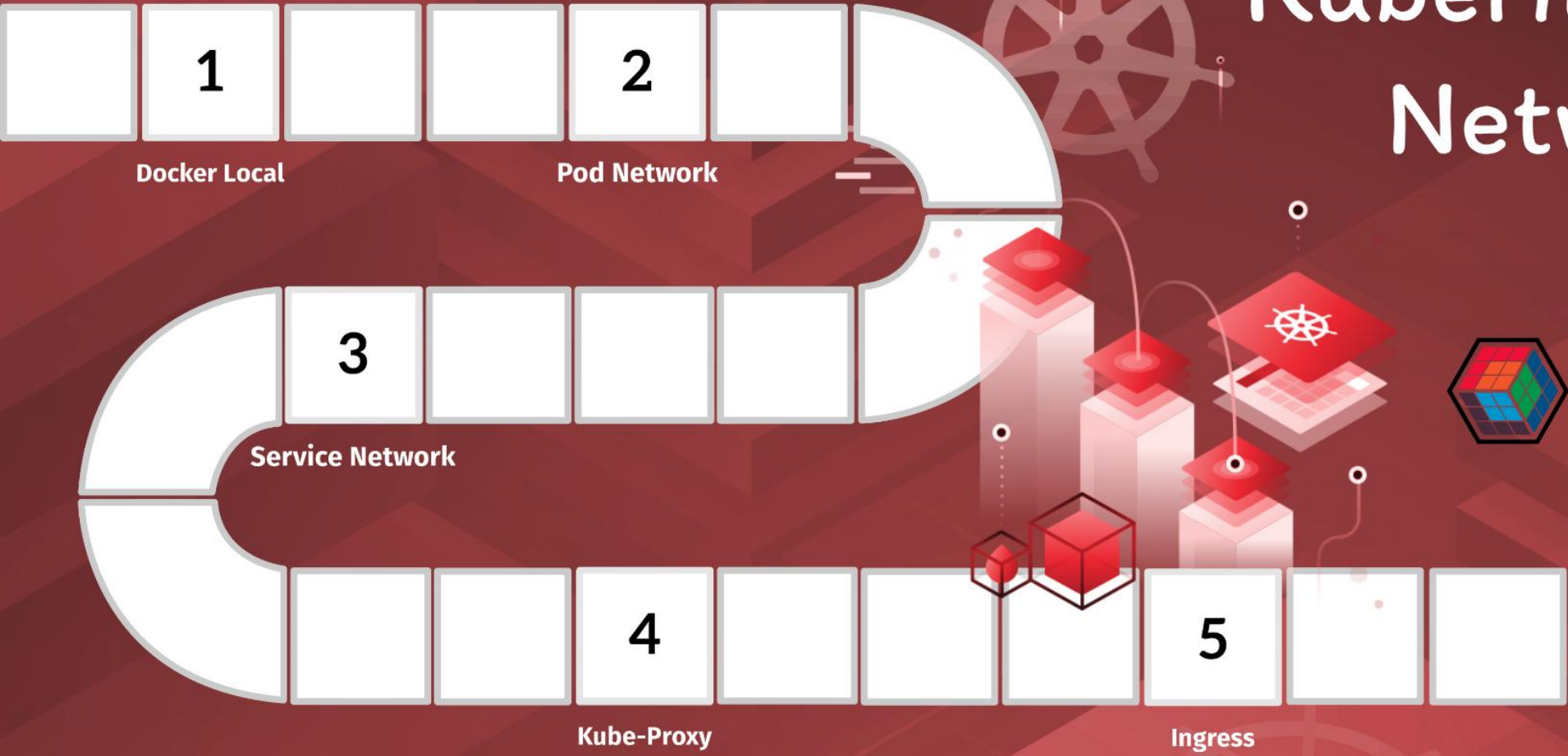
Kubernetes

getup



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Kubernetes Network

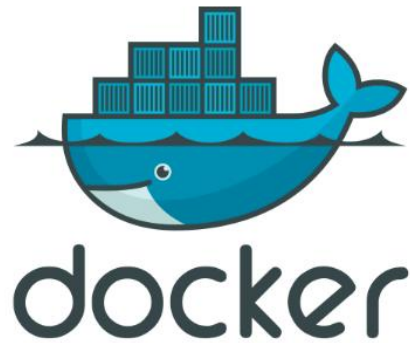


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getup
GROW IN THE CLOUD

Docker Local

Como funcionaria um POD em Rede Docker Local?



Fase 01

Fase 02

Fase 03

Fase 04

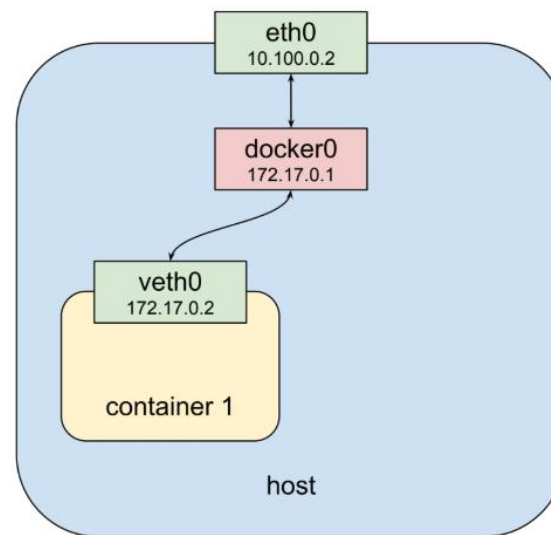
getup



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#01

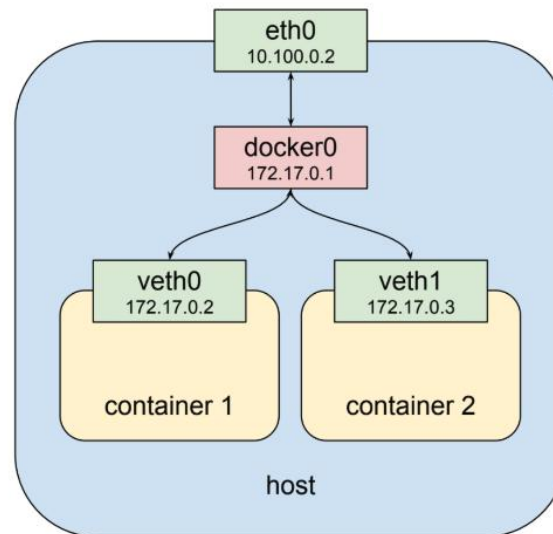
1 Container



getup

#02

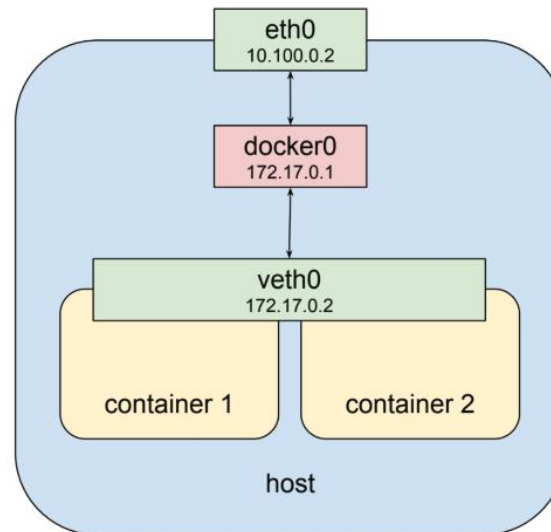
2 Container



getup

#03

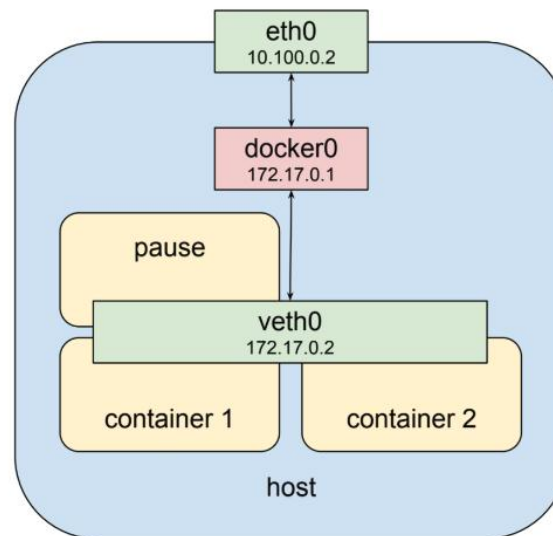
2 Container / 1 IP



getup

#04

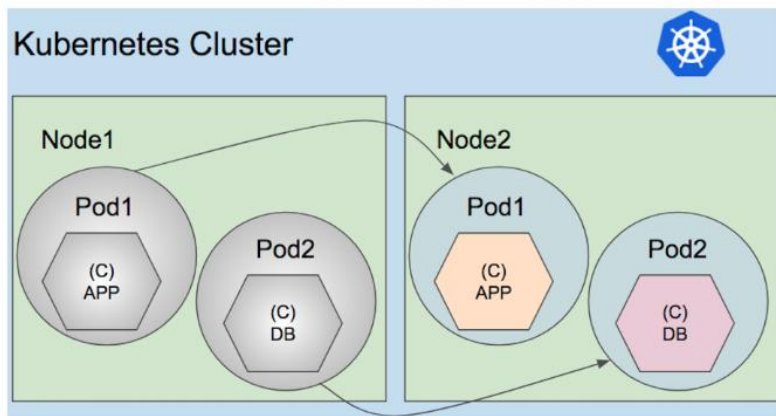
2 Container / 1 IP



getup

The Pod Network

Pods em mais de um host! E agora?



Fase 01

Fase 02

Fase 03

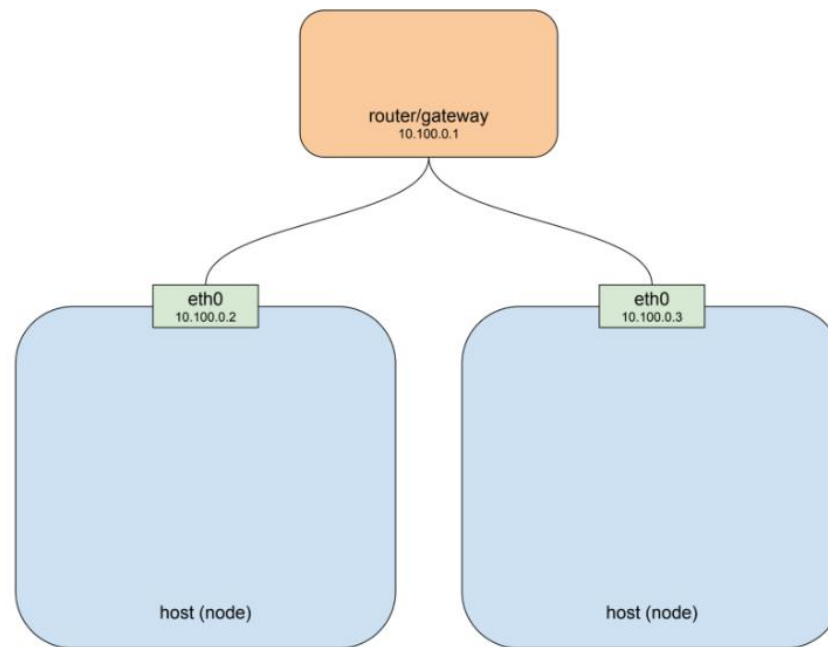
getup



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#01

2 Hosts (nodes)

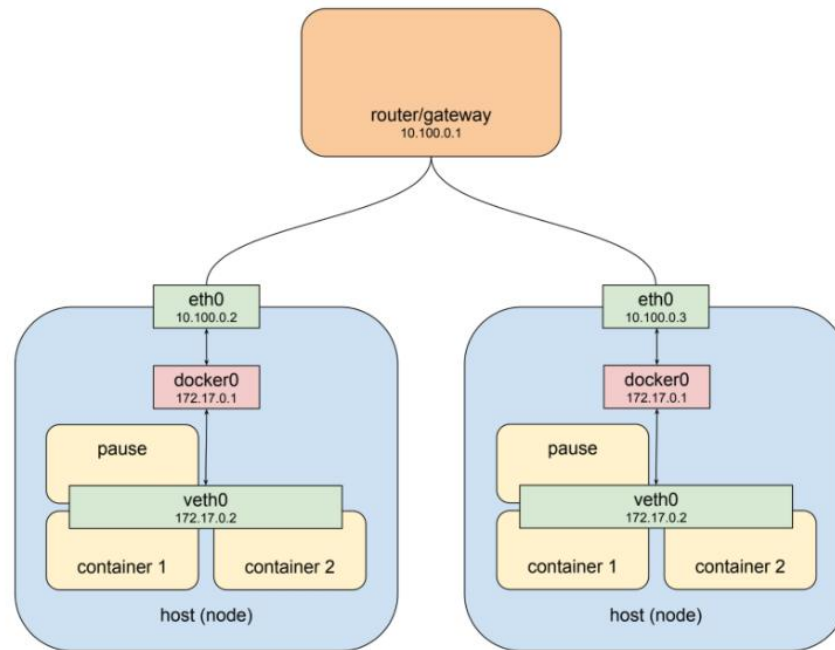


getup

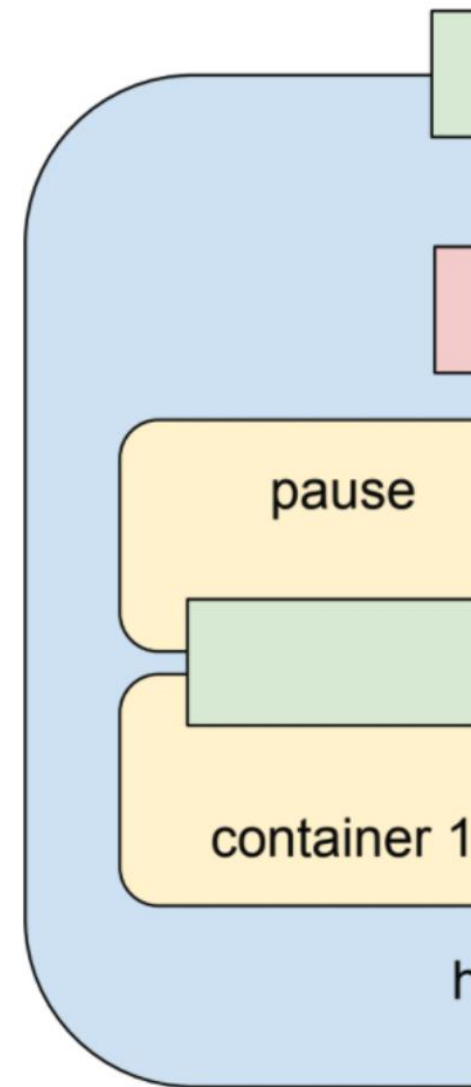
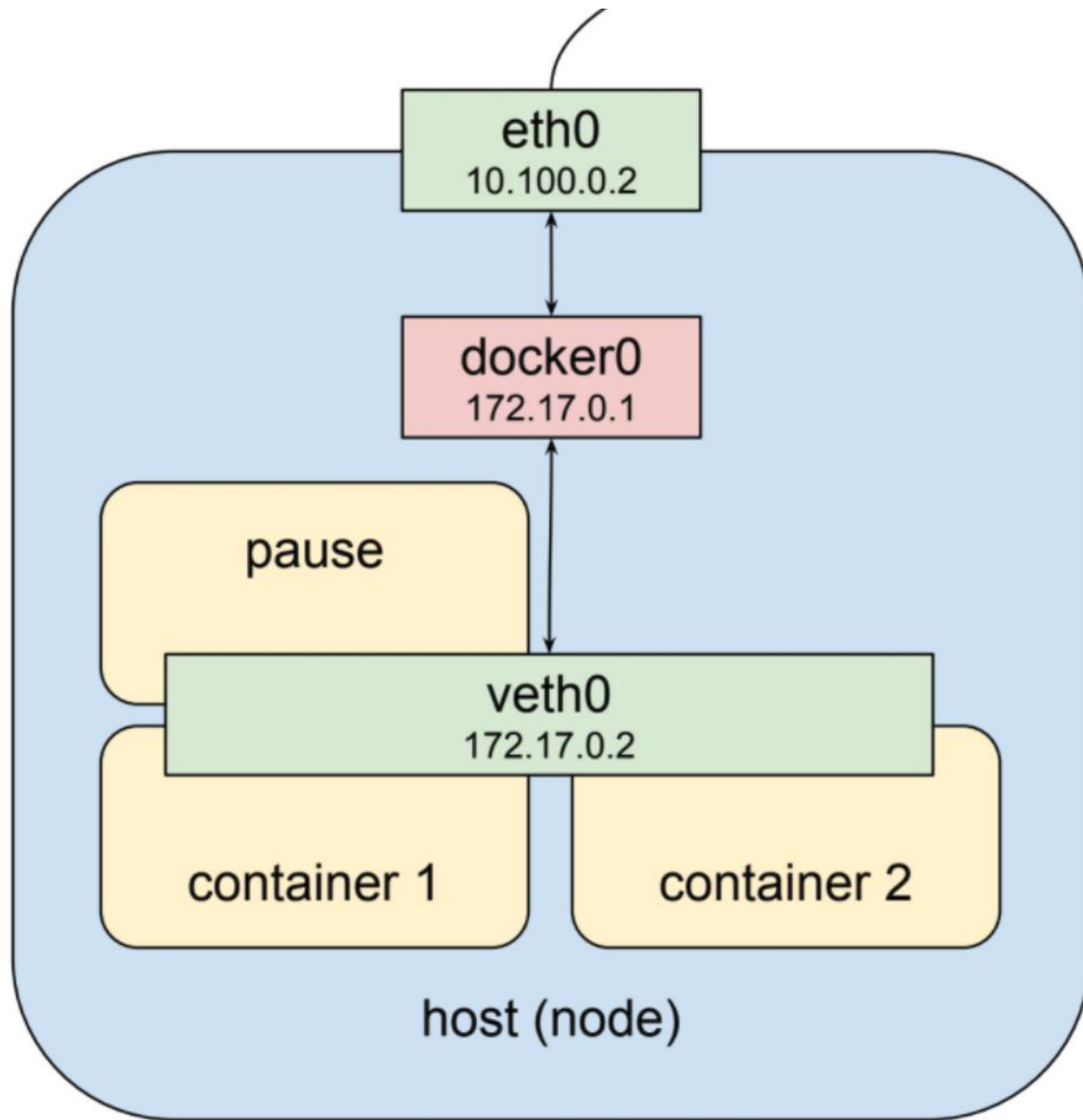


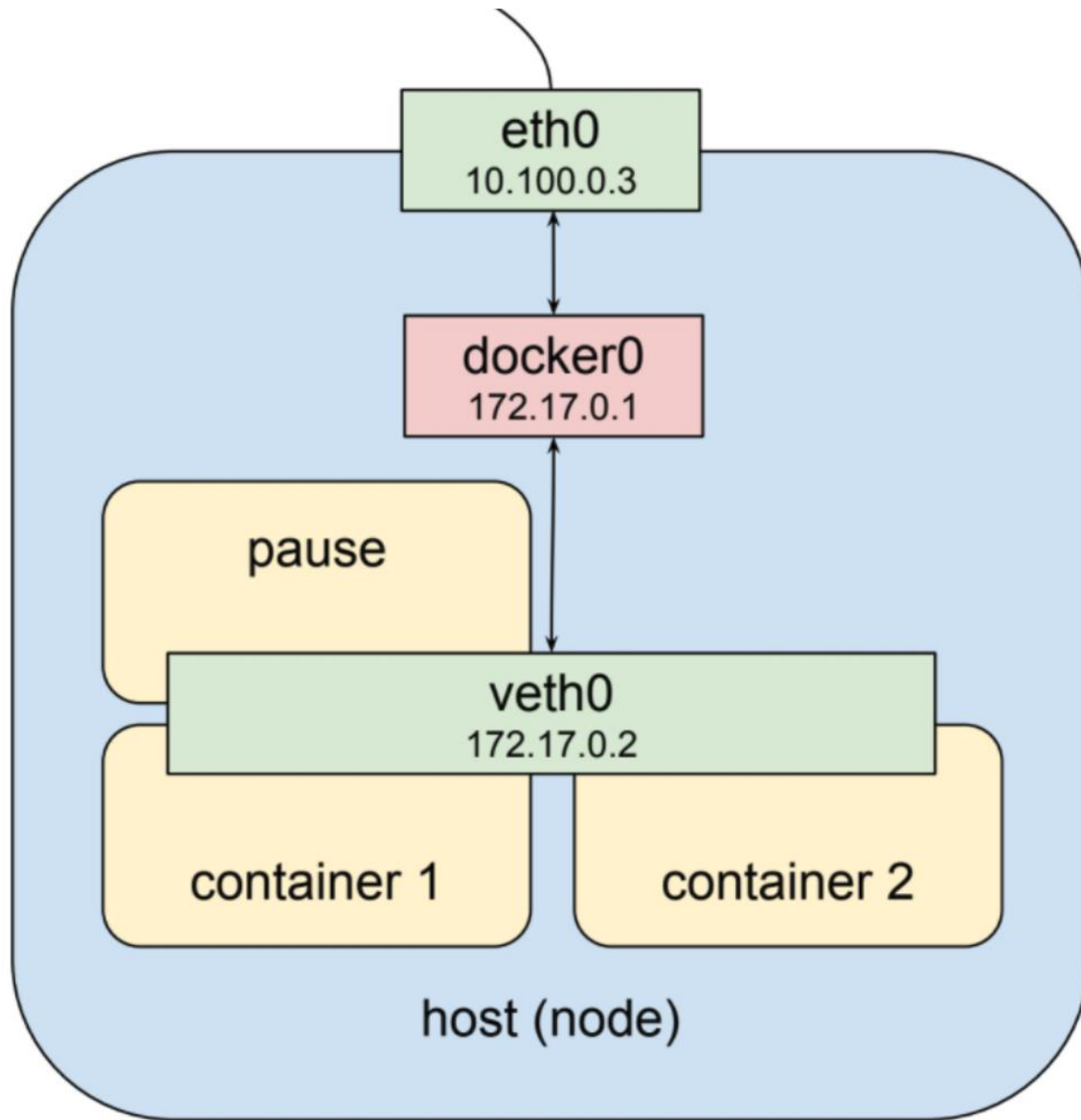
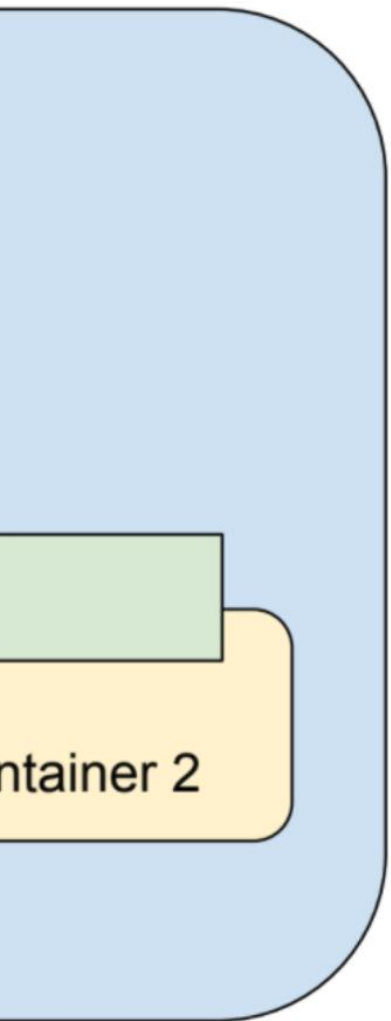
#02

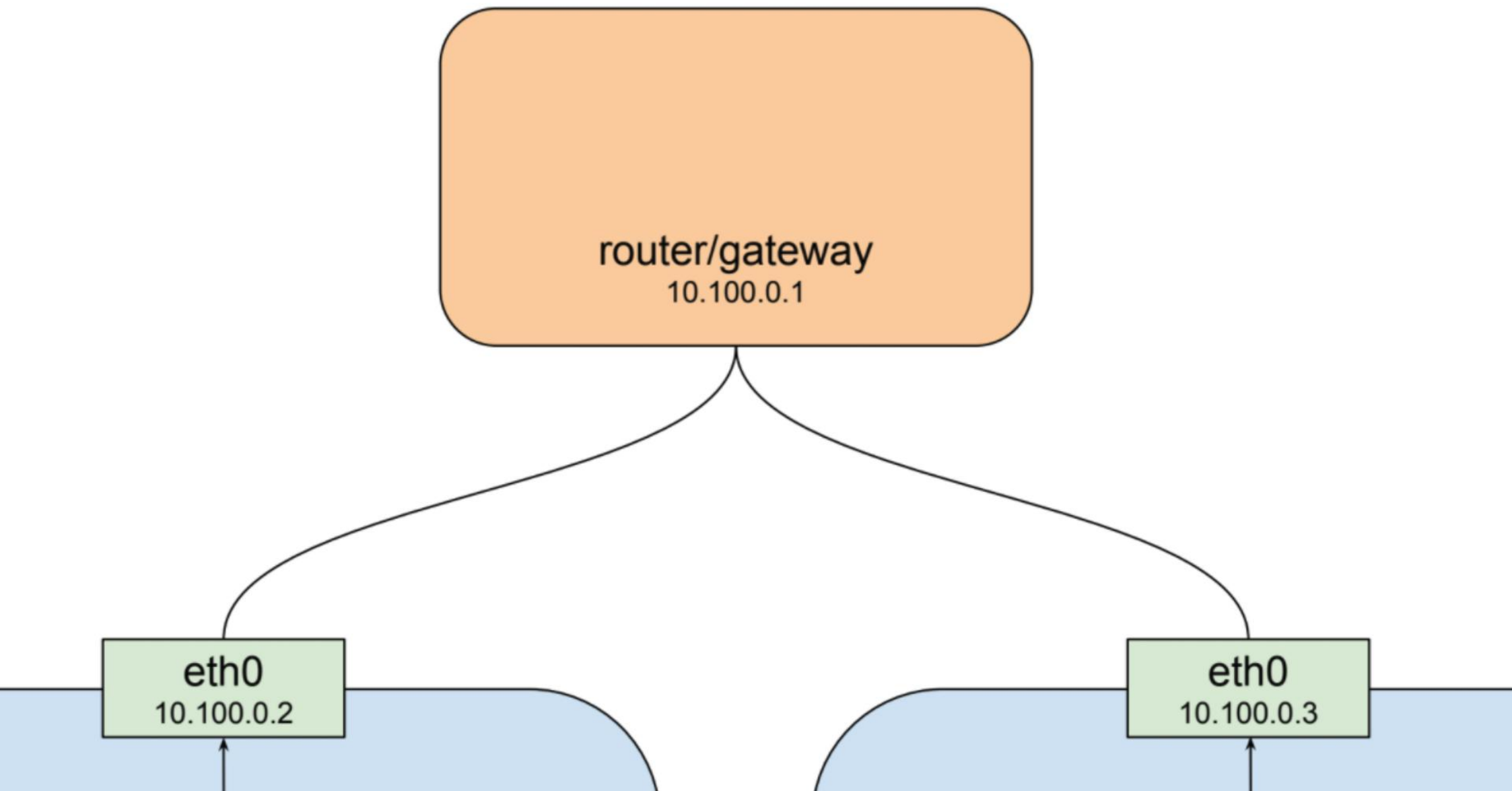
2 PODs x 2 Hosts



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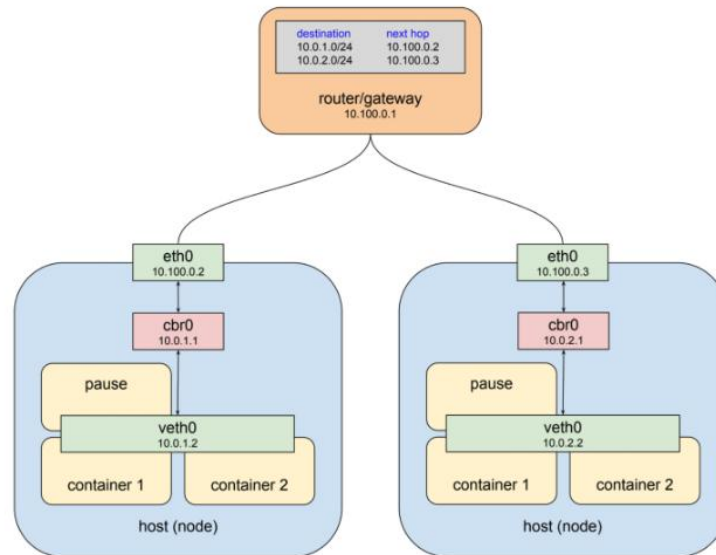






#03

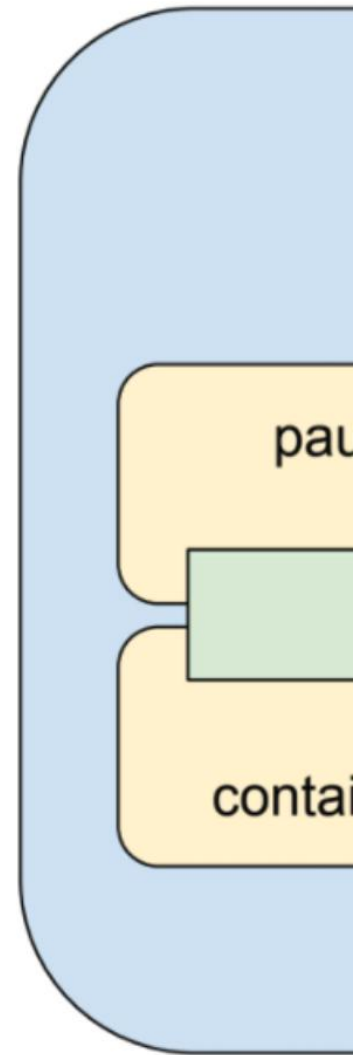
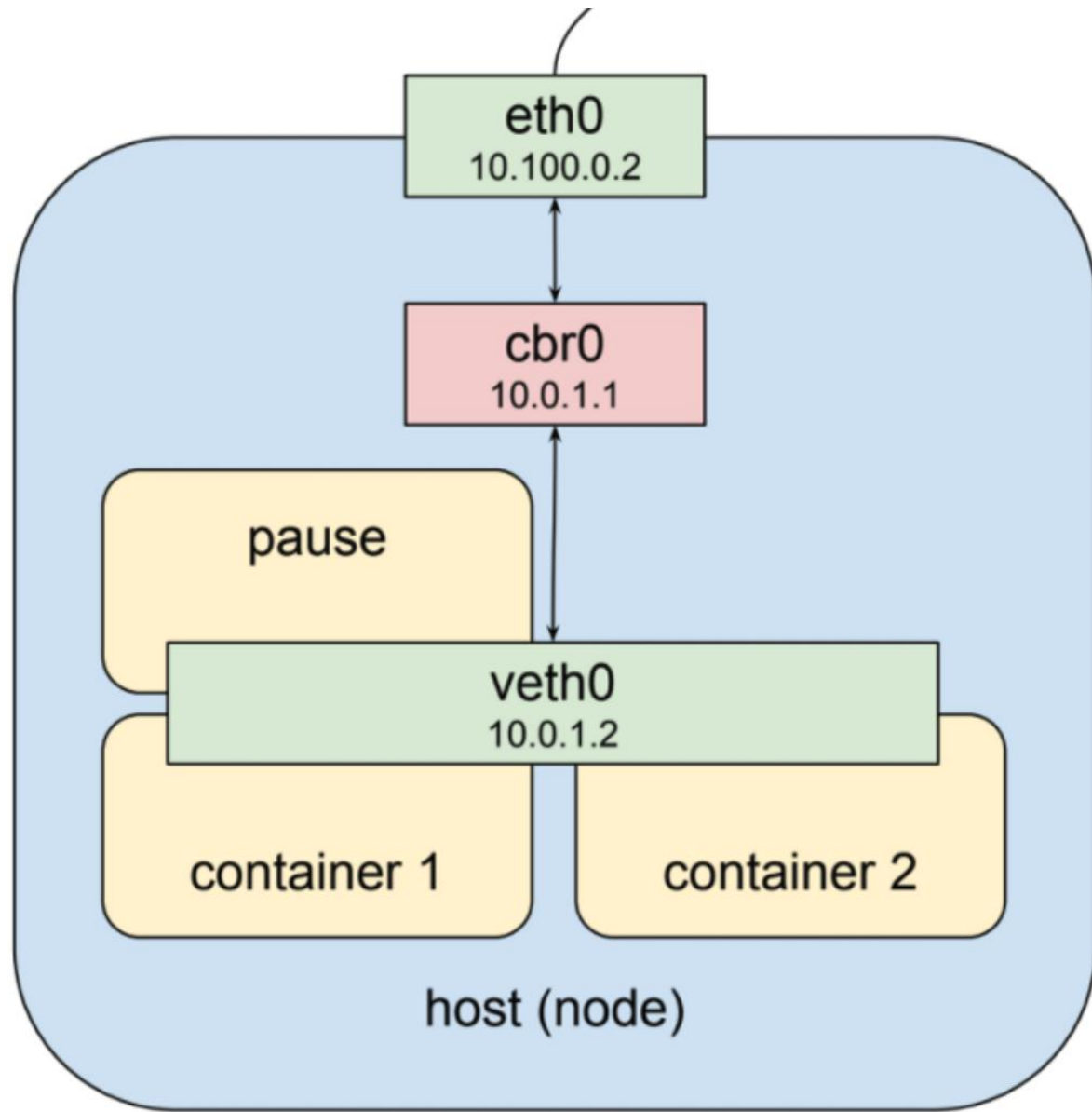
2 PODs x 2 Hosts

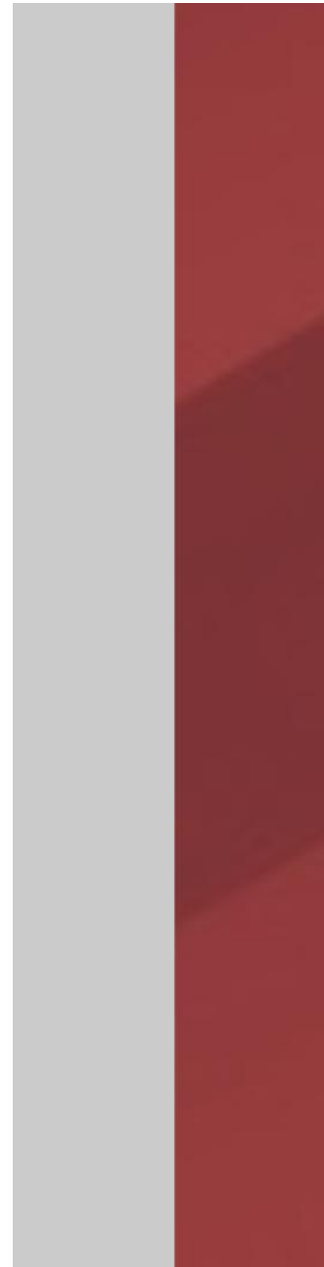
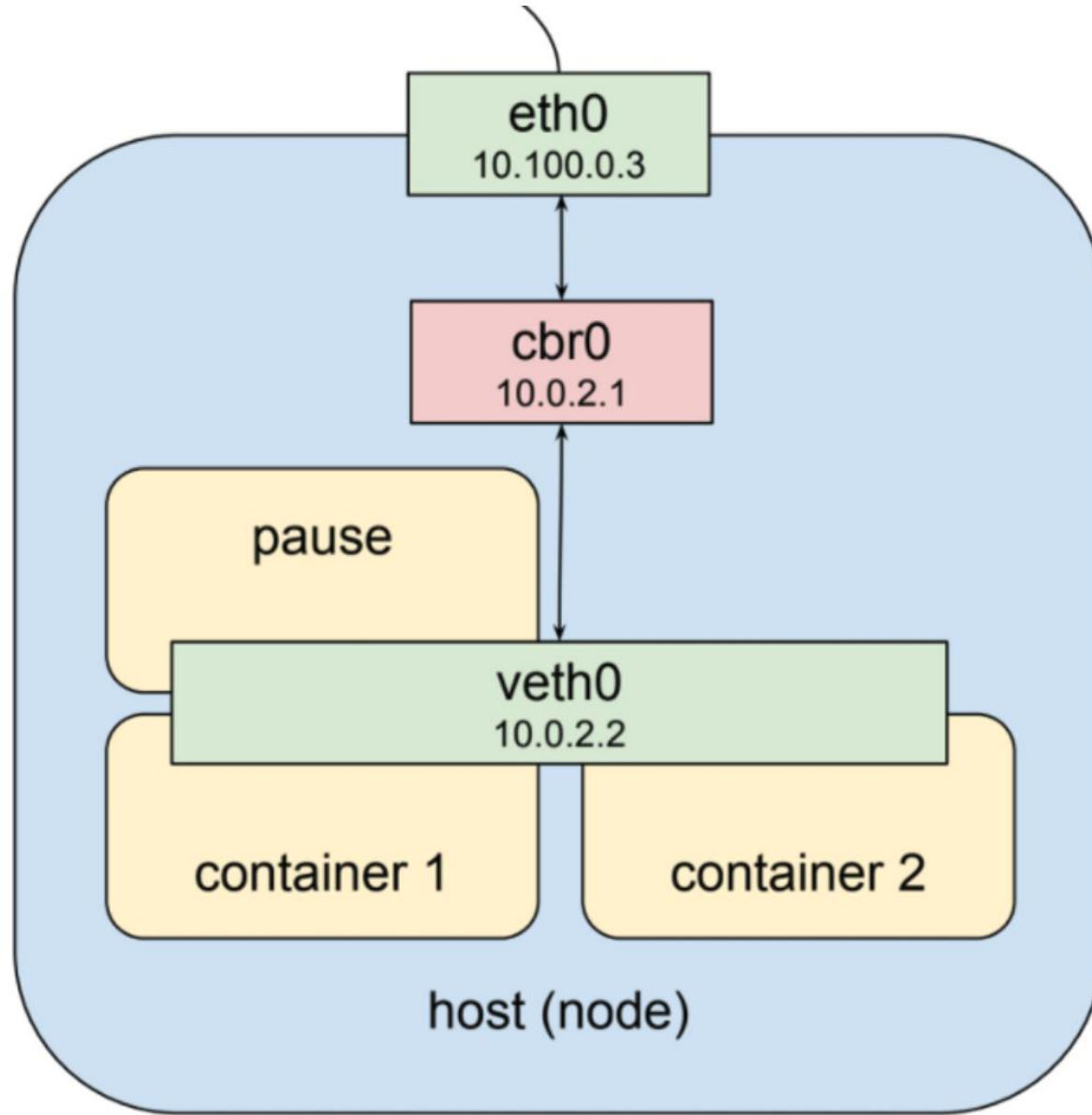
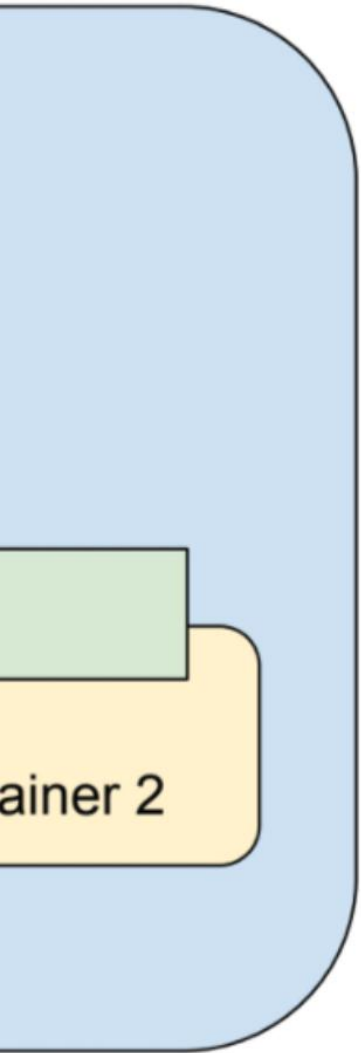


getup

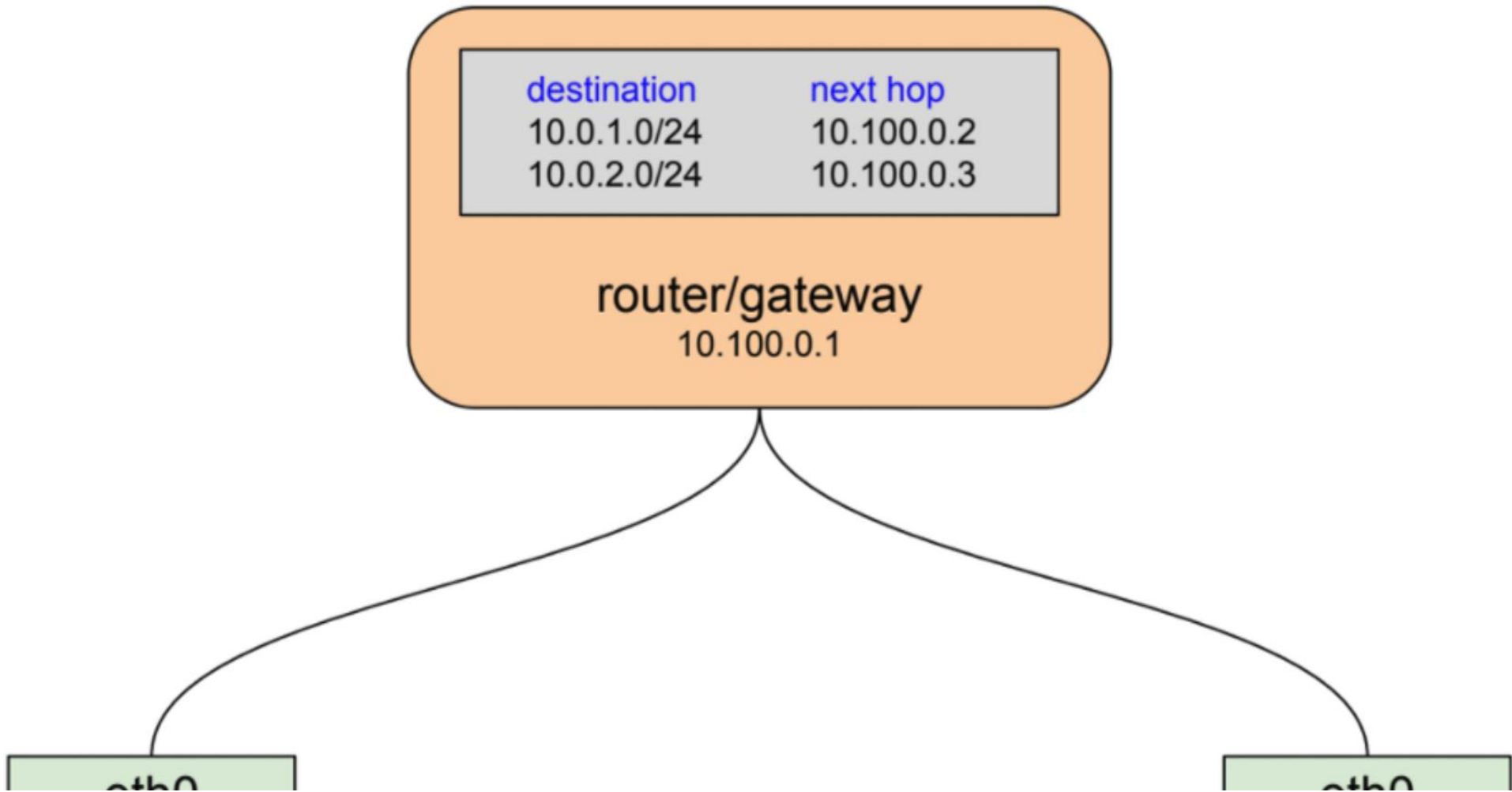


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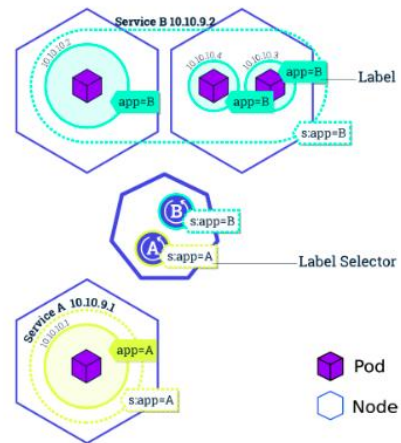


Pressione `Esc` para sair do modo tela cheia



The Service Network

Replicas de Pods em mais de um host!
E agora?

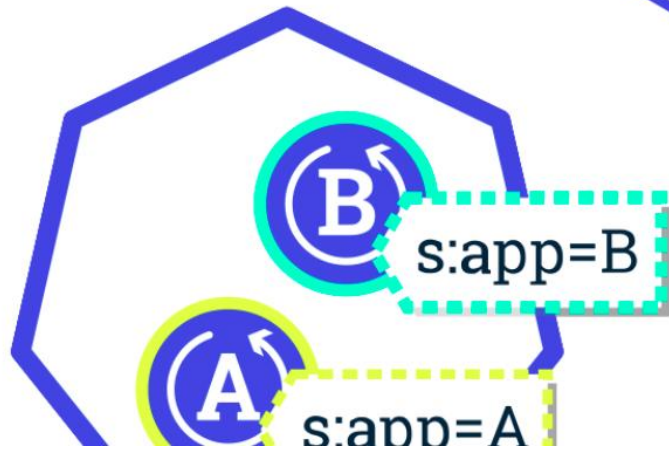
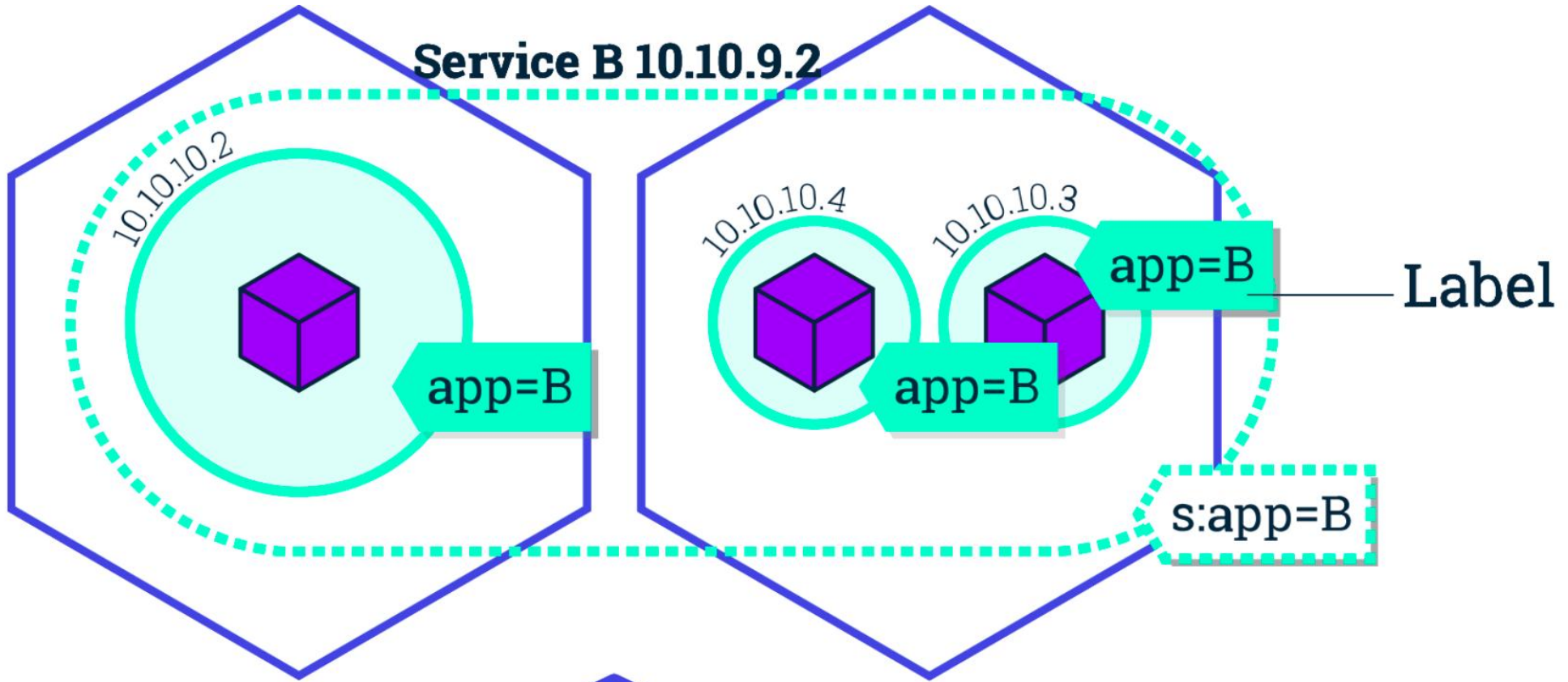


Fase 01

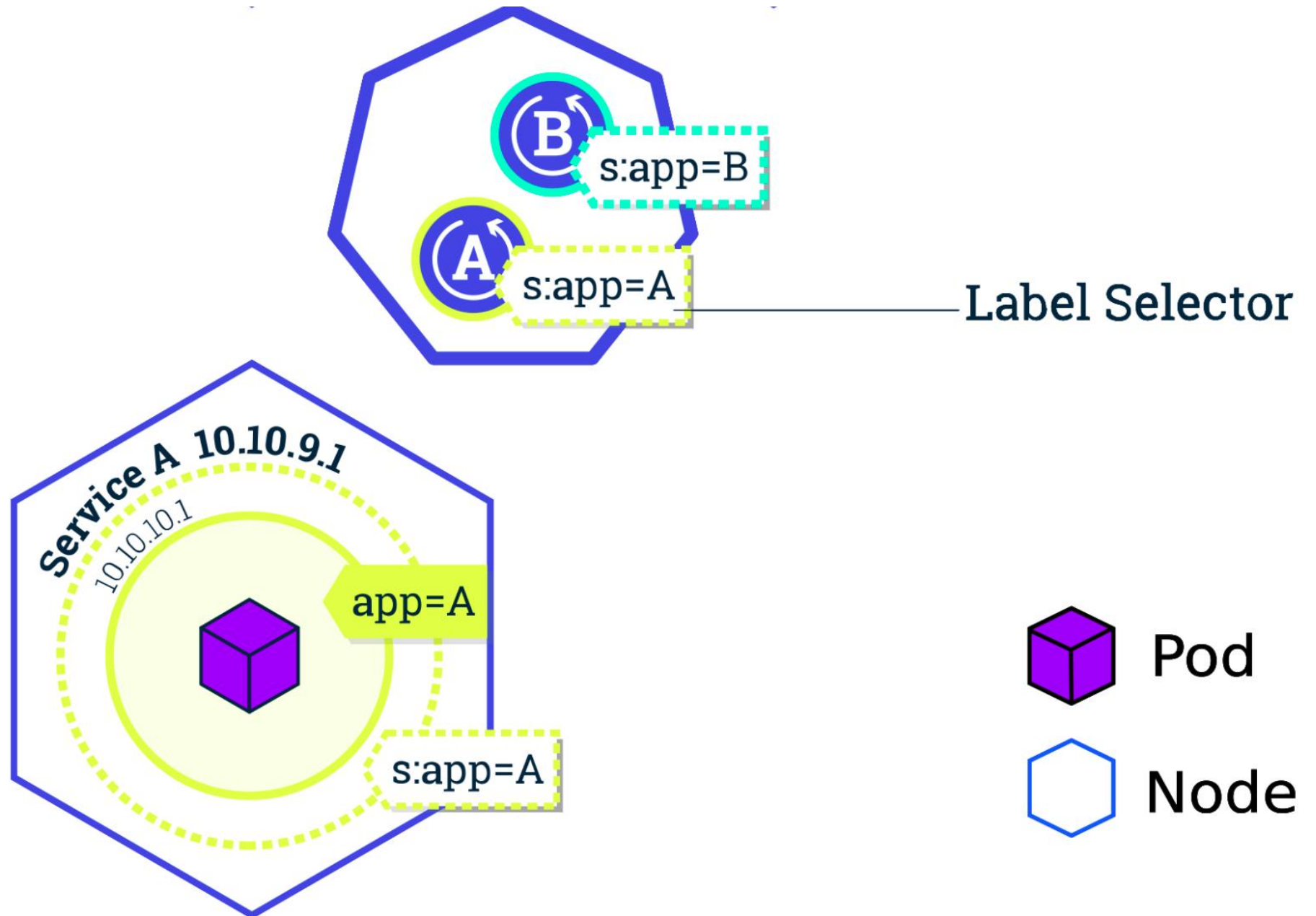
Fase 02

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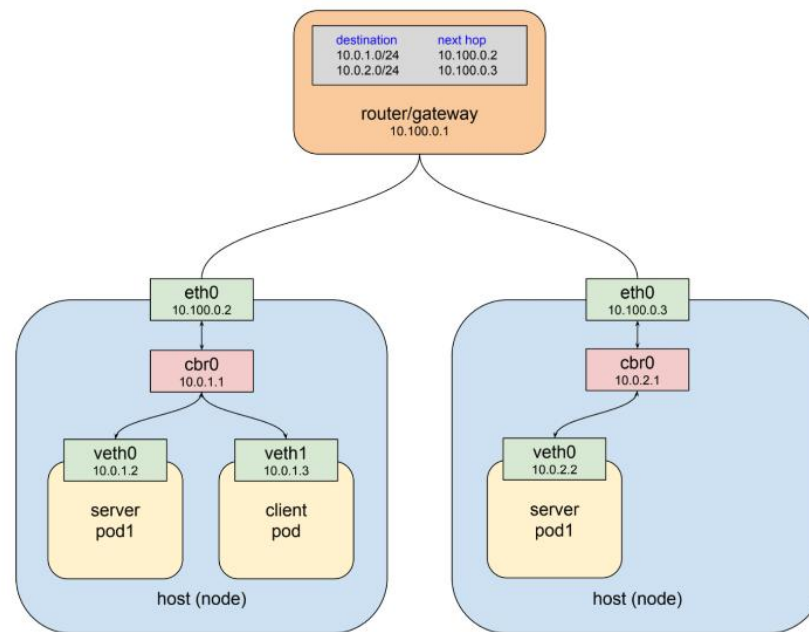


Label Selector

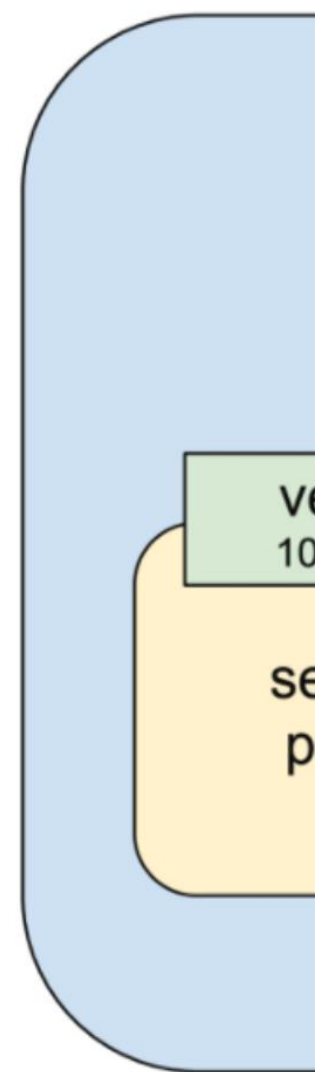
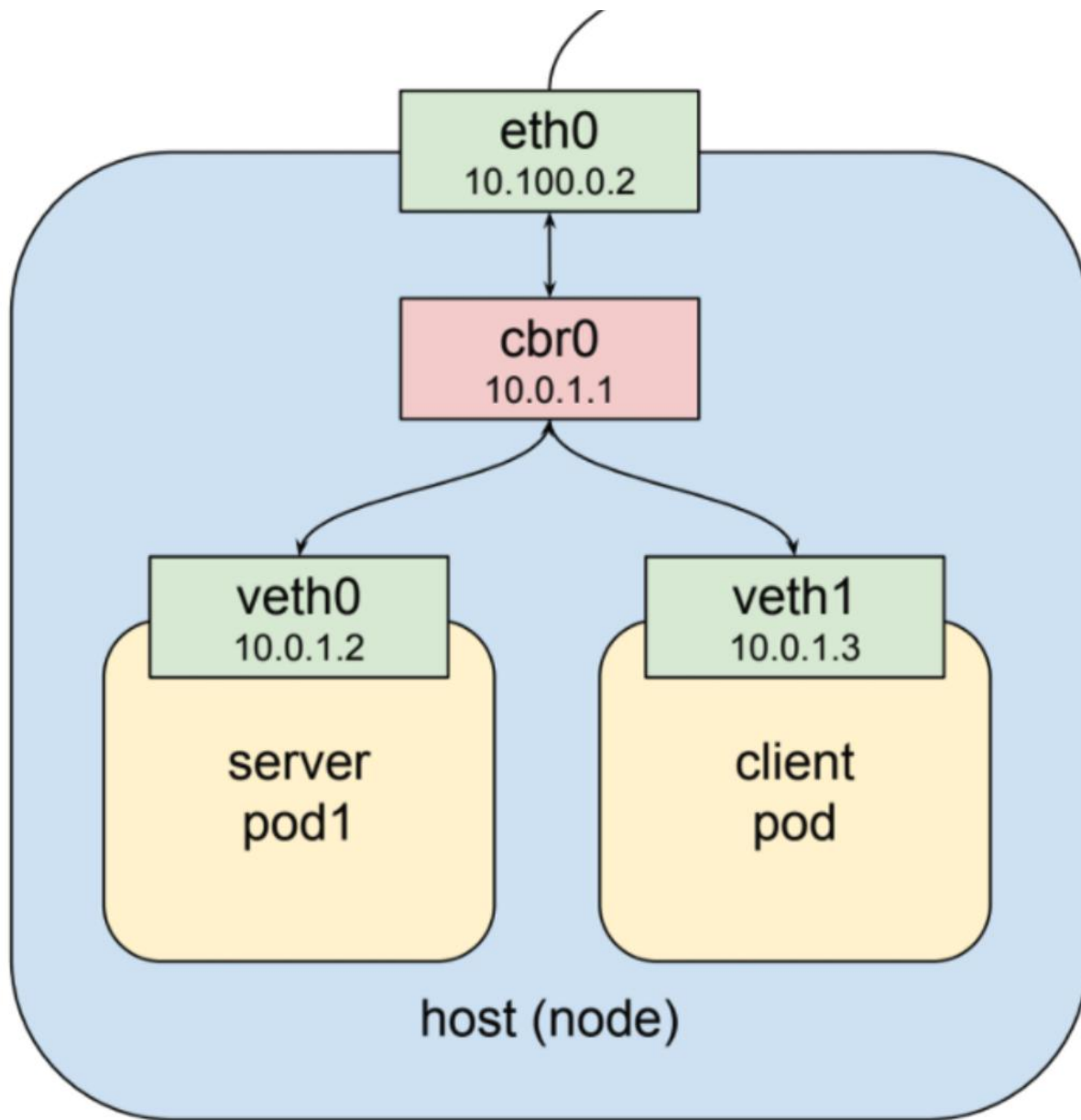


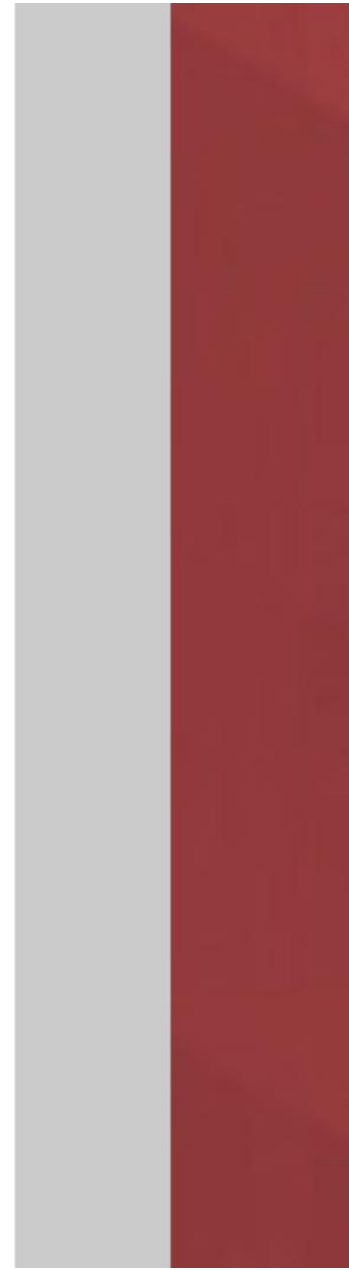
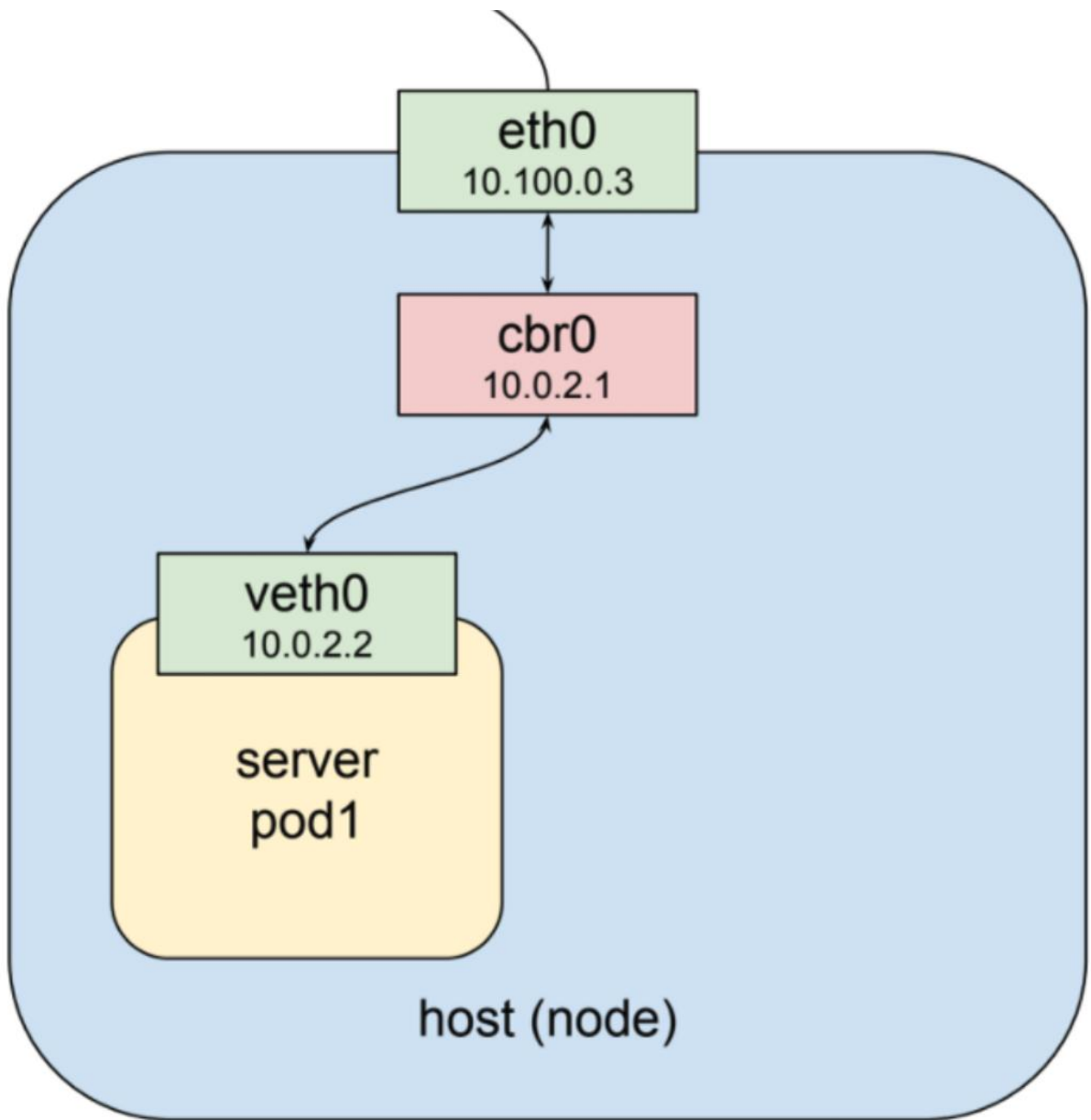
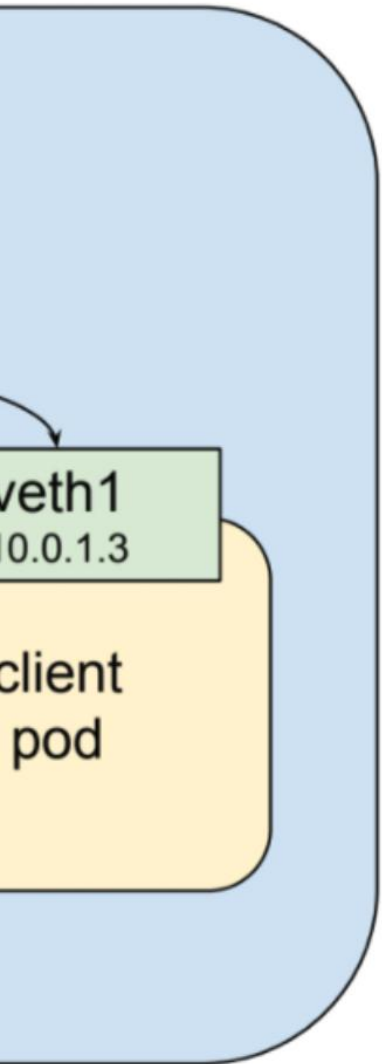
#01

Replicas



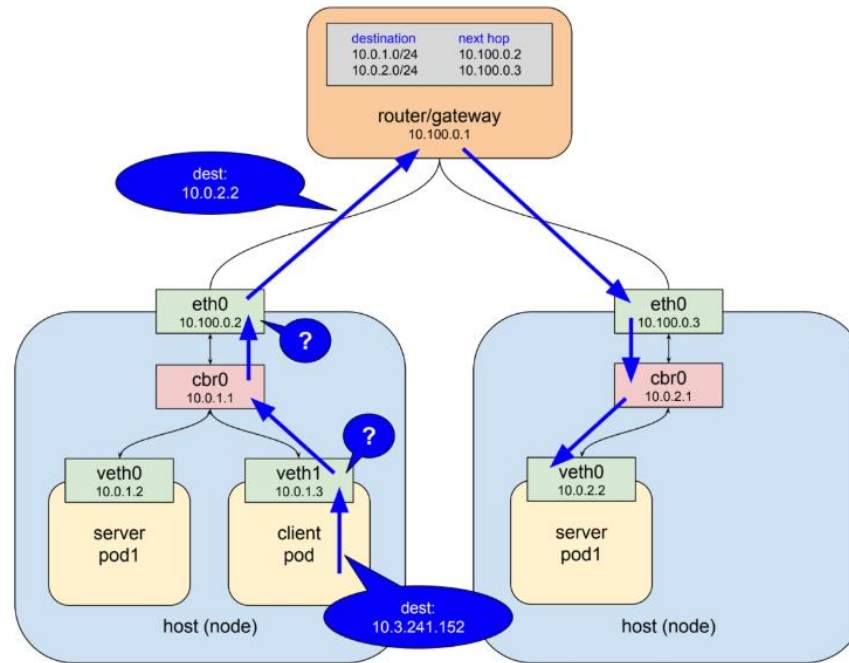
getup



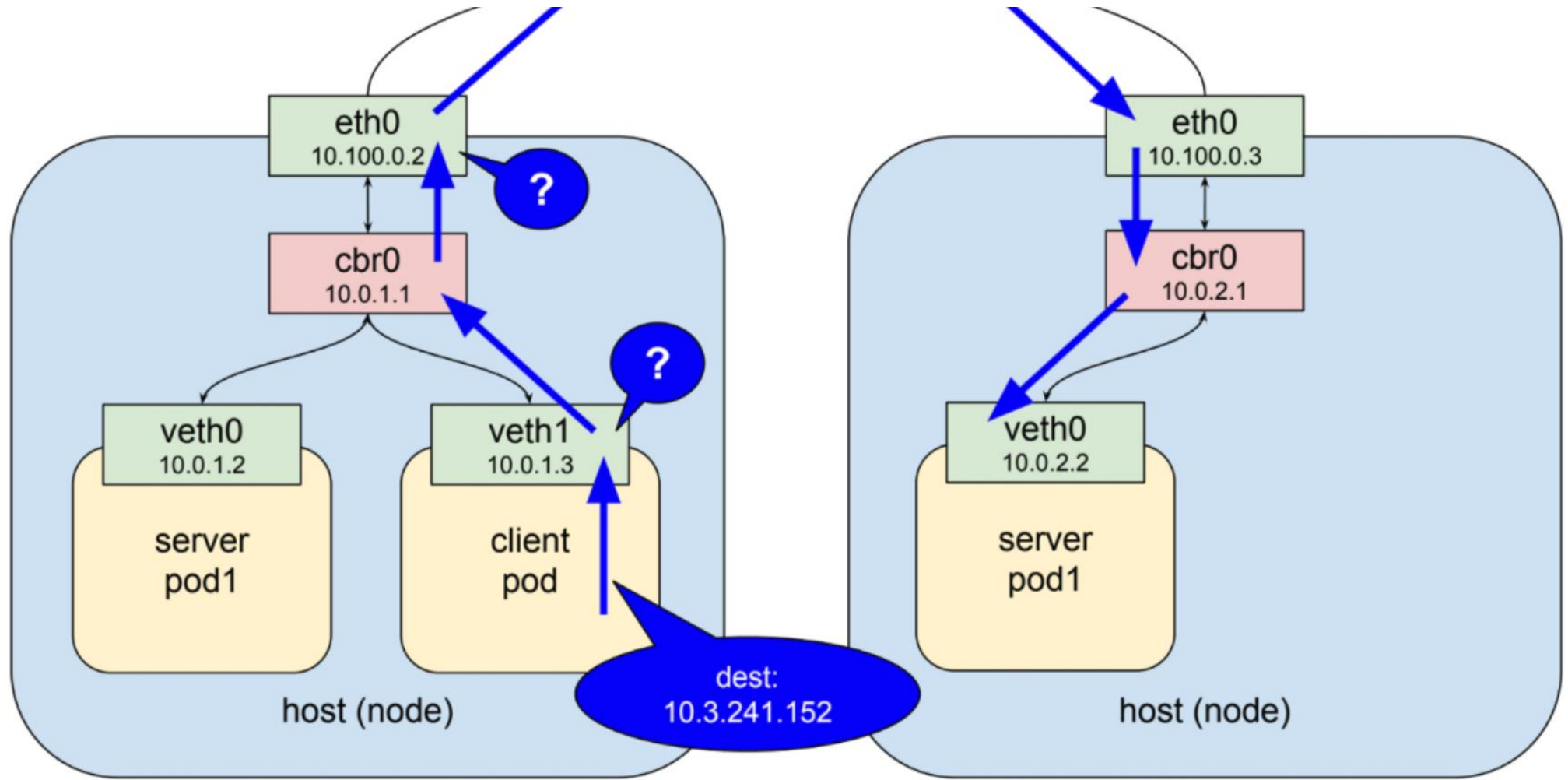


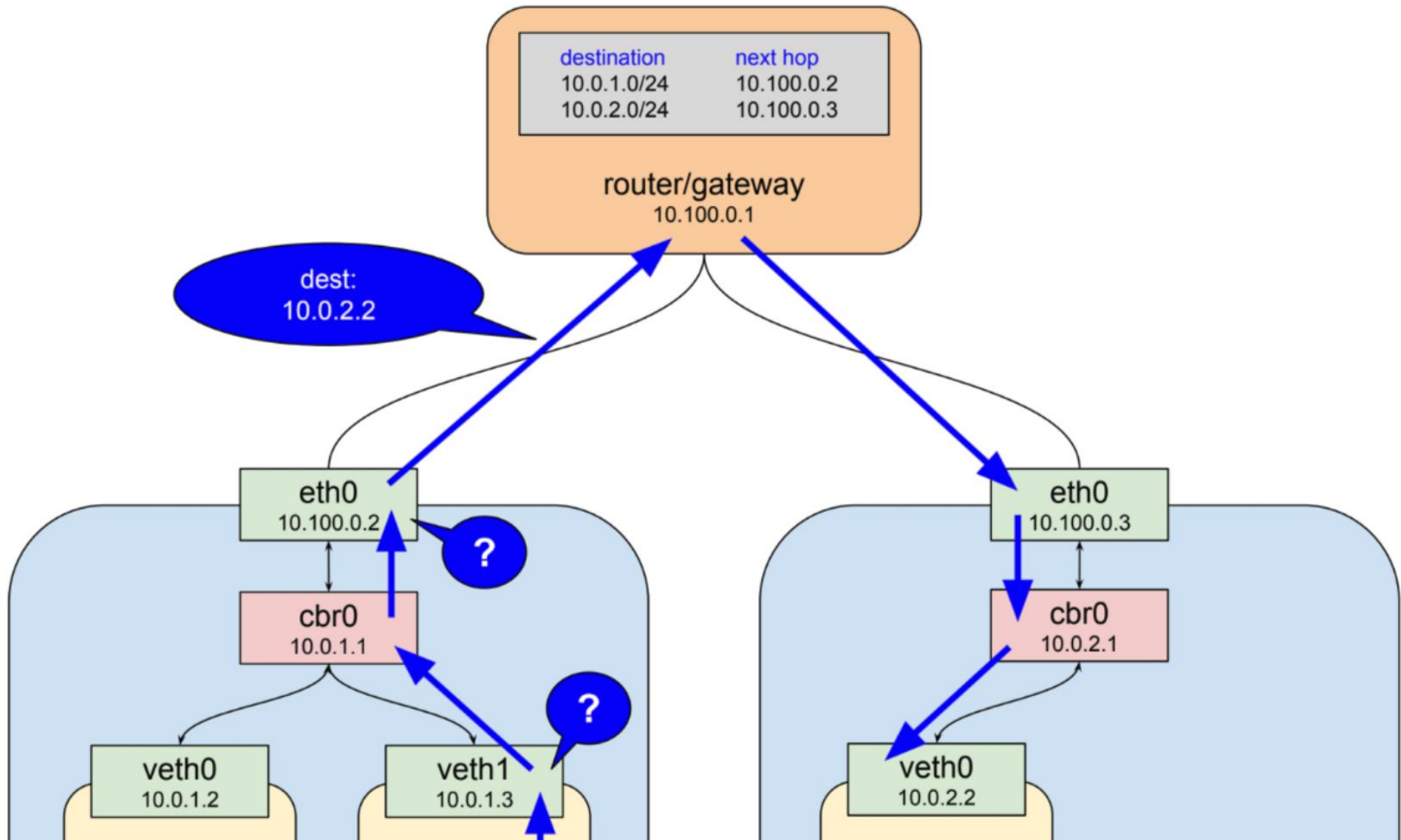
#02

Replicas



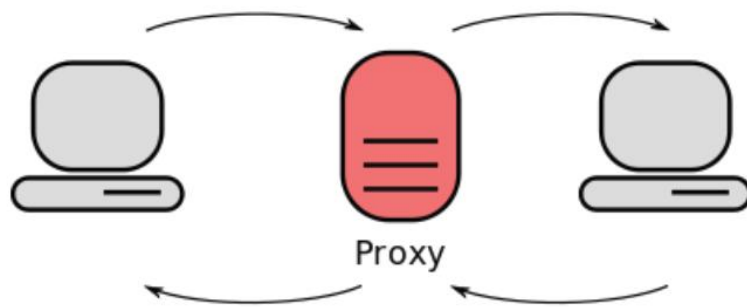
getup





Kube-Proxy

Kube-Proxy!??



Fase 01

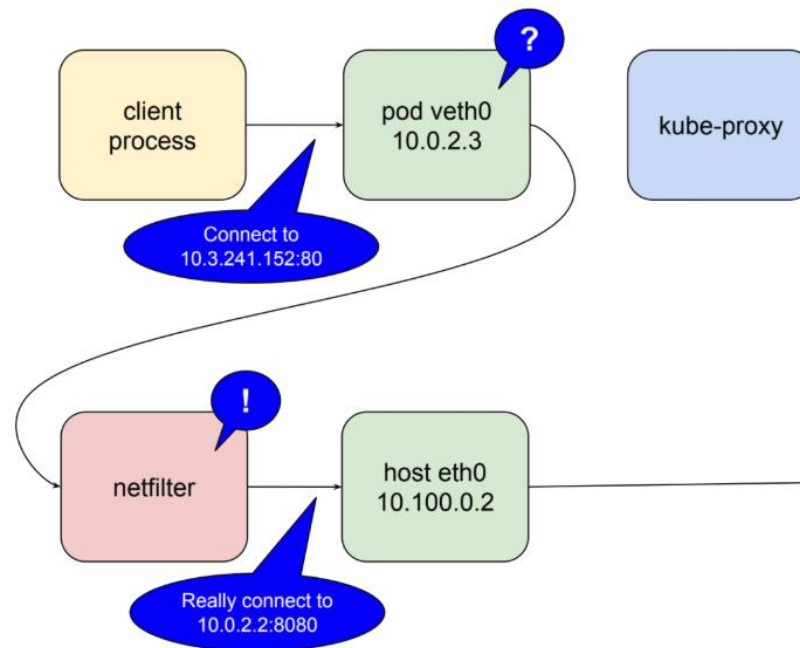
getup



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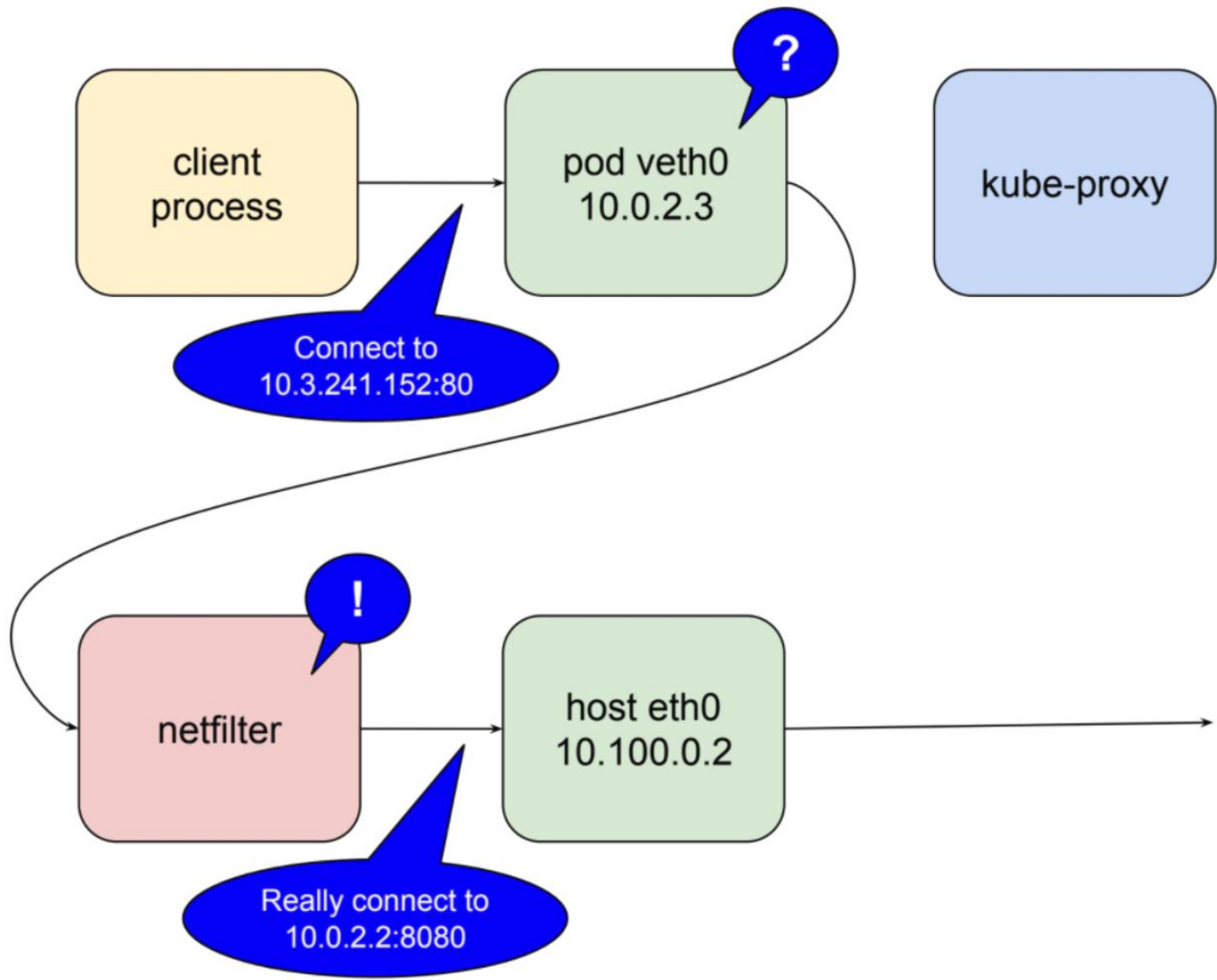
#01

Replicas

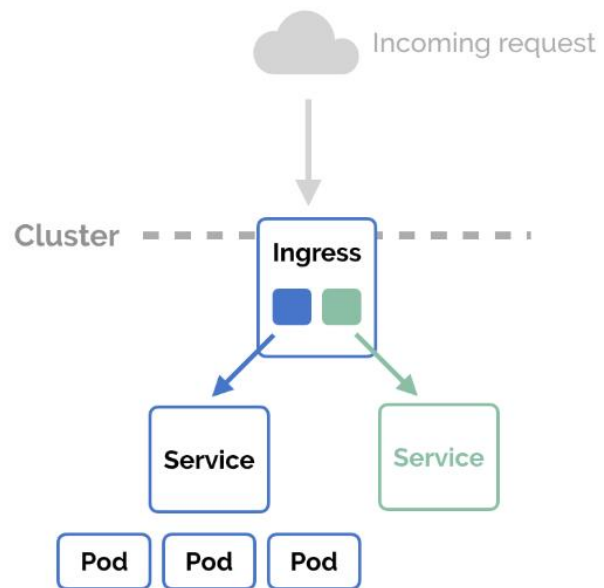


getup





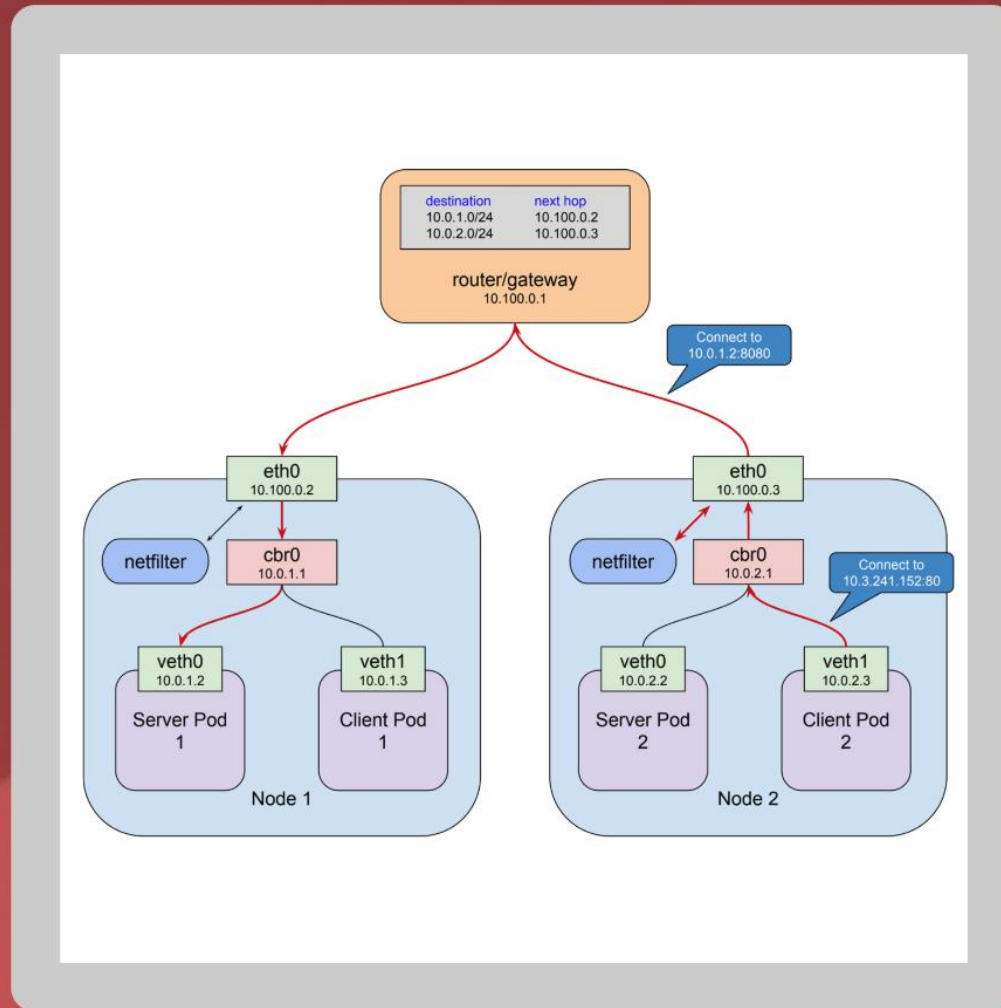
Ingress



Fase 01

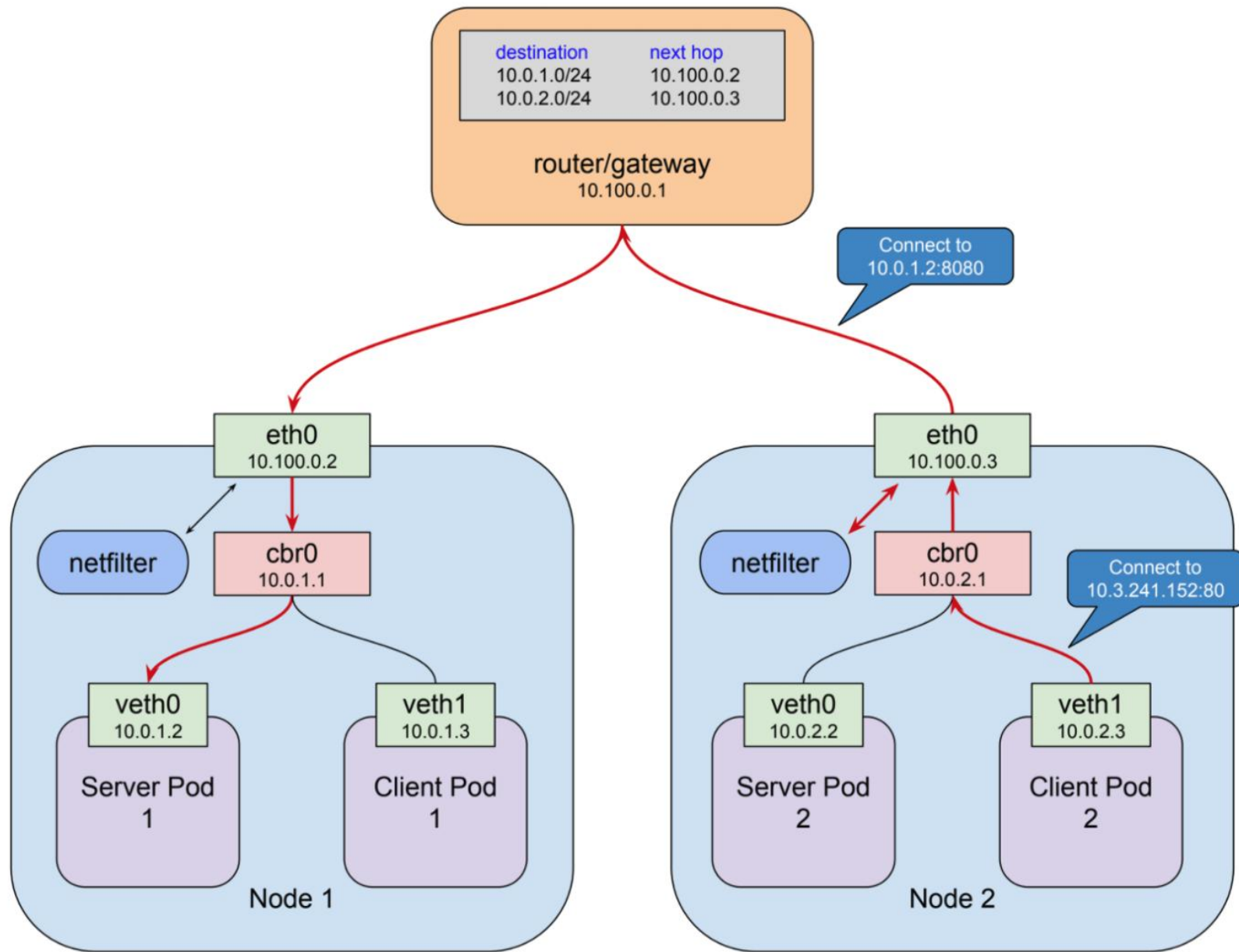
getup

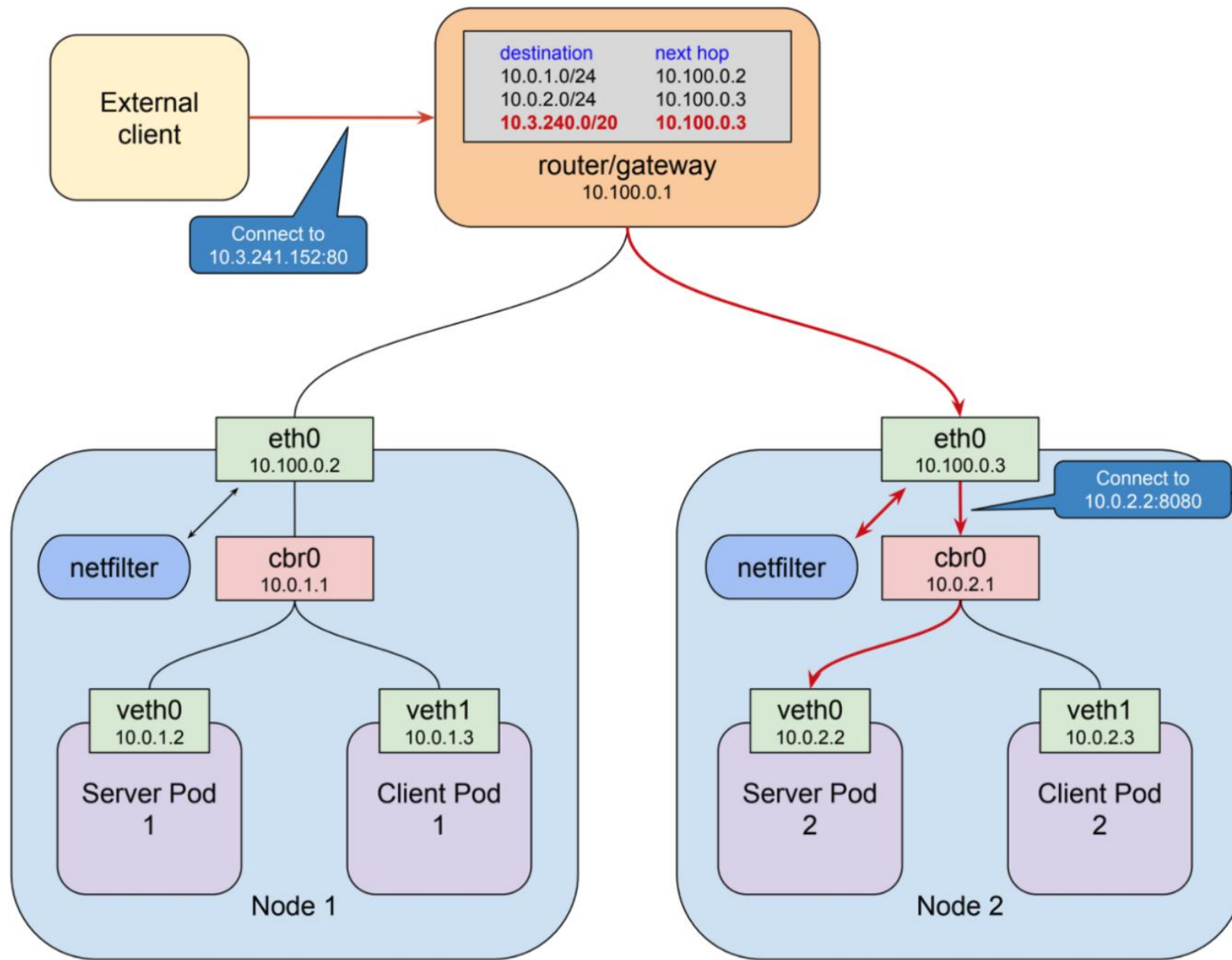
#01

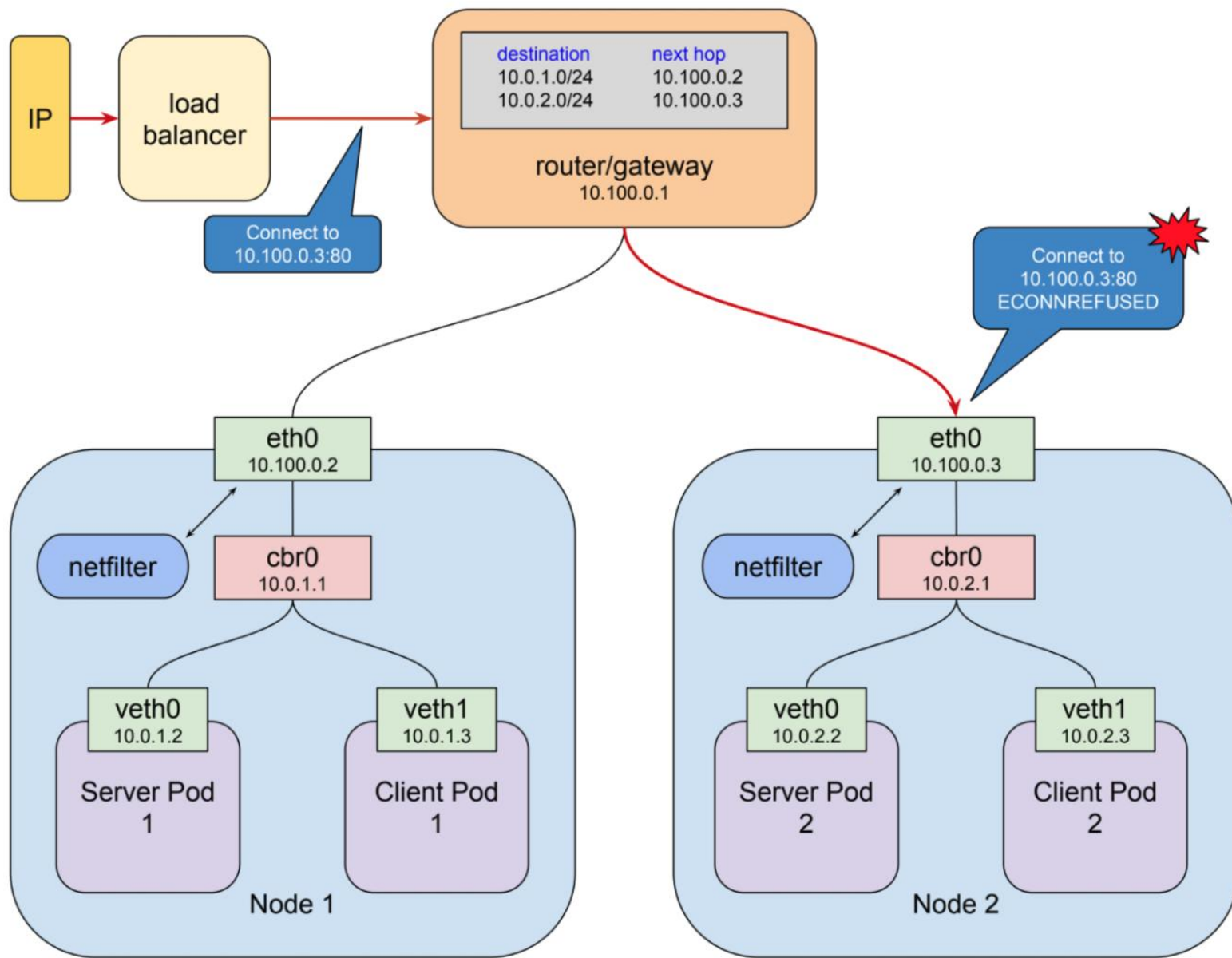


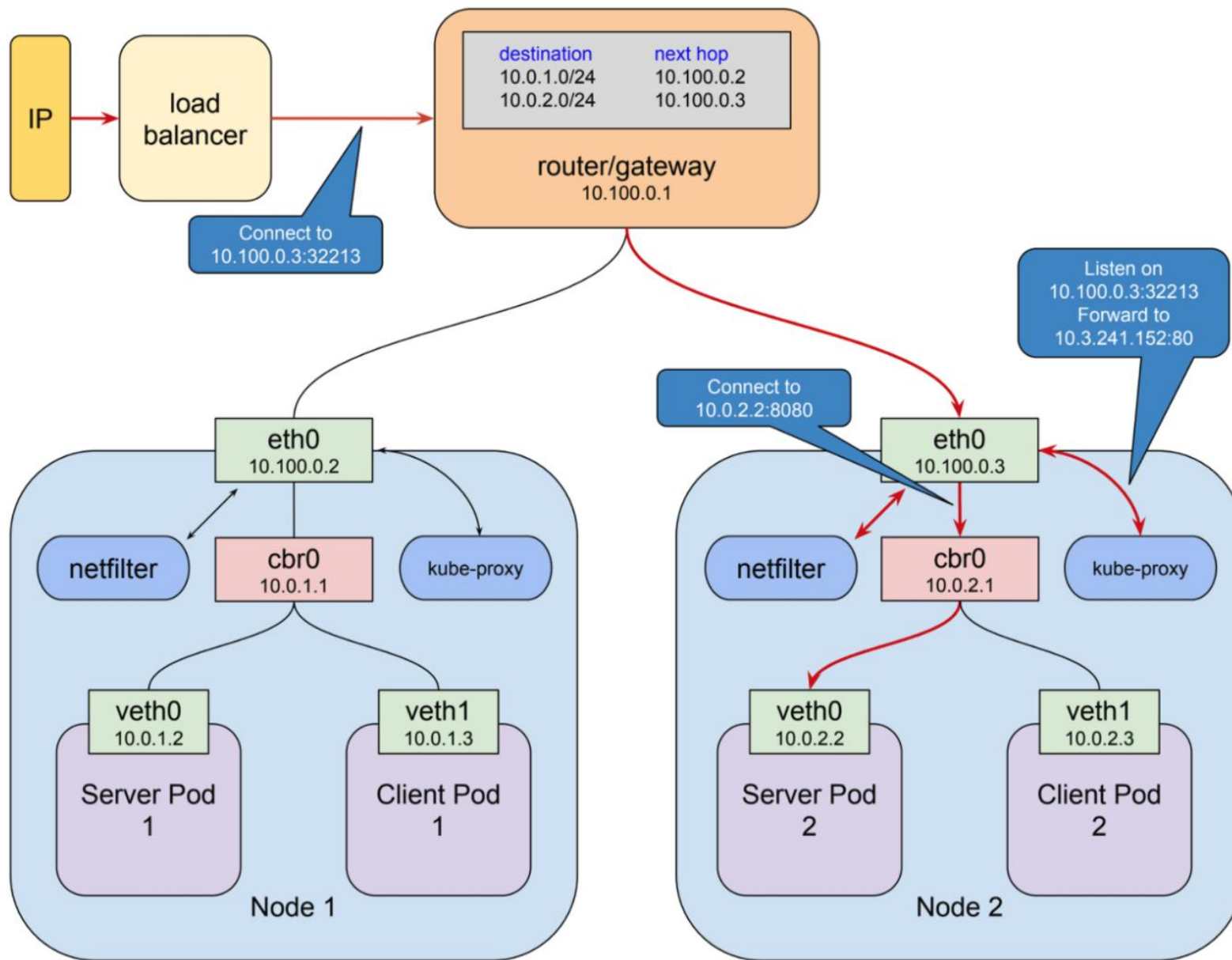
getup



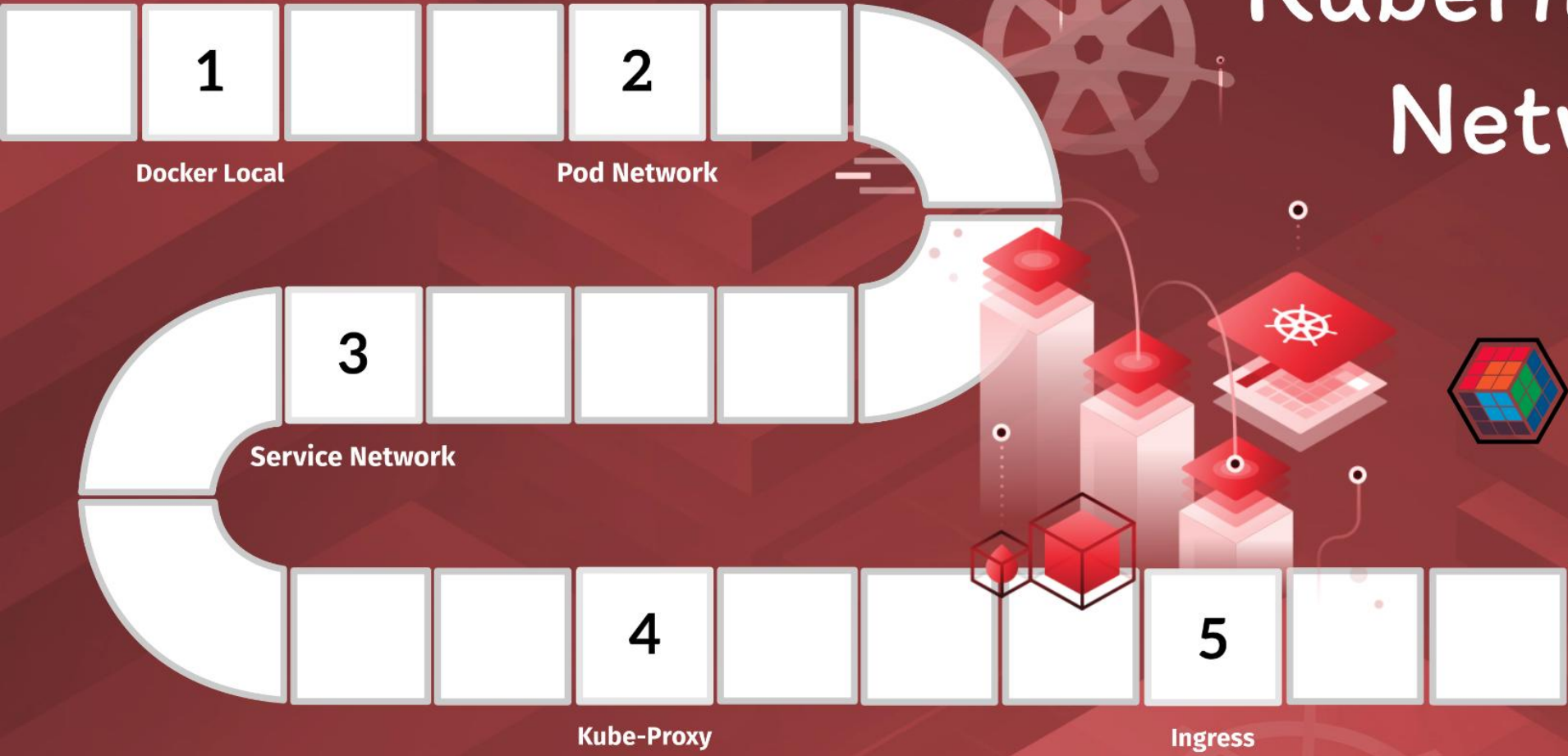








Kubernetes Network



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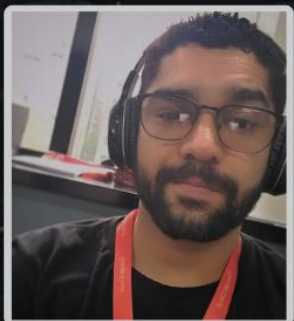
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Obrigado!! :)



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