





Docker Routing Mesh

Inside the magic

Docker Routing Mesh

- The Routing Mesh an incoming network
- Routes incoming (ingress) network packets for a Service to proper port / container
- The mesh spans all nodes in a swarm
- IPVS from the Linux Kernel is used
 - IPVS is an established technology

Docker Routing Mesh

- The routing mesh will load balance across all nodes in the swarm
- An Overlay network is used to establish a virtual IP (VIP) for services
- Containers talk to each other via the VIP
- Docker will load balance to services by routing traffic from the VIP to an container for the service

External Traffic

- All containers in the swarm listen to ports exposed by services in the swarm
- Traffic is then routed to the internal VIP and load balanced to the a container for the service

my-service-name

VIP: 10.0.9.2

10.0.9.3

node1

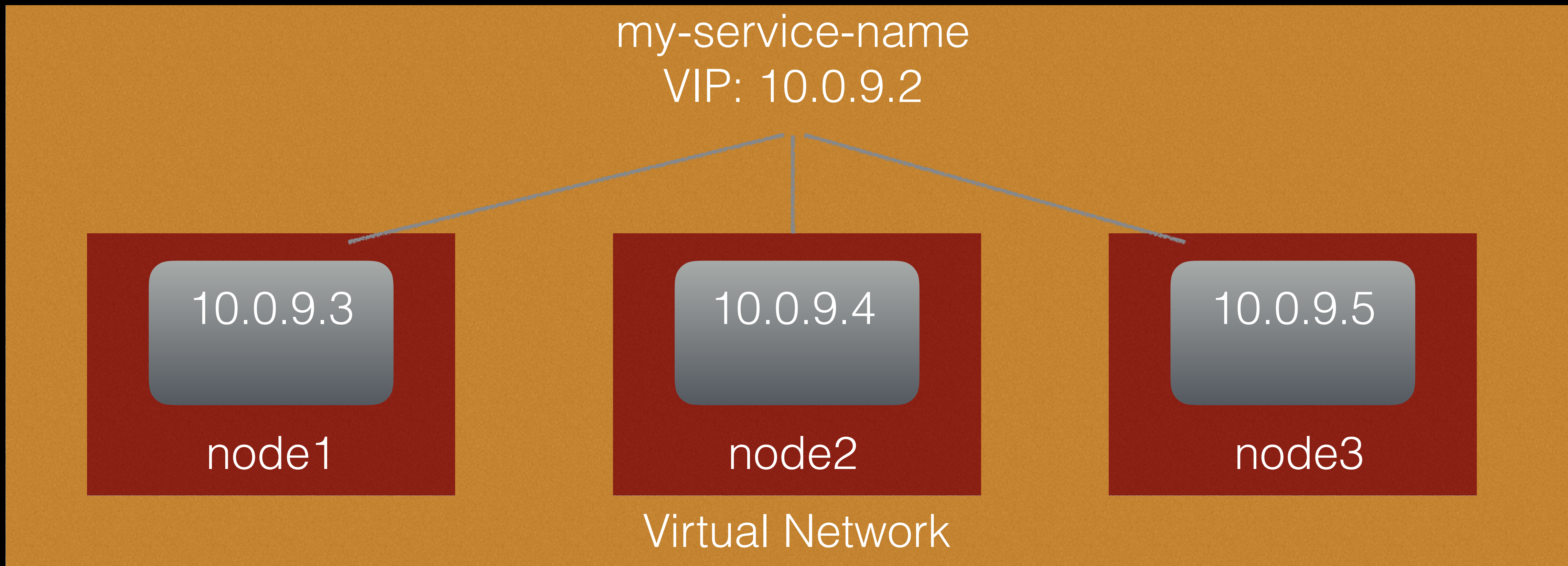
10.0.9.4

node2

10.0.9.5

node3

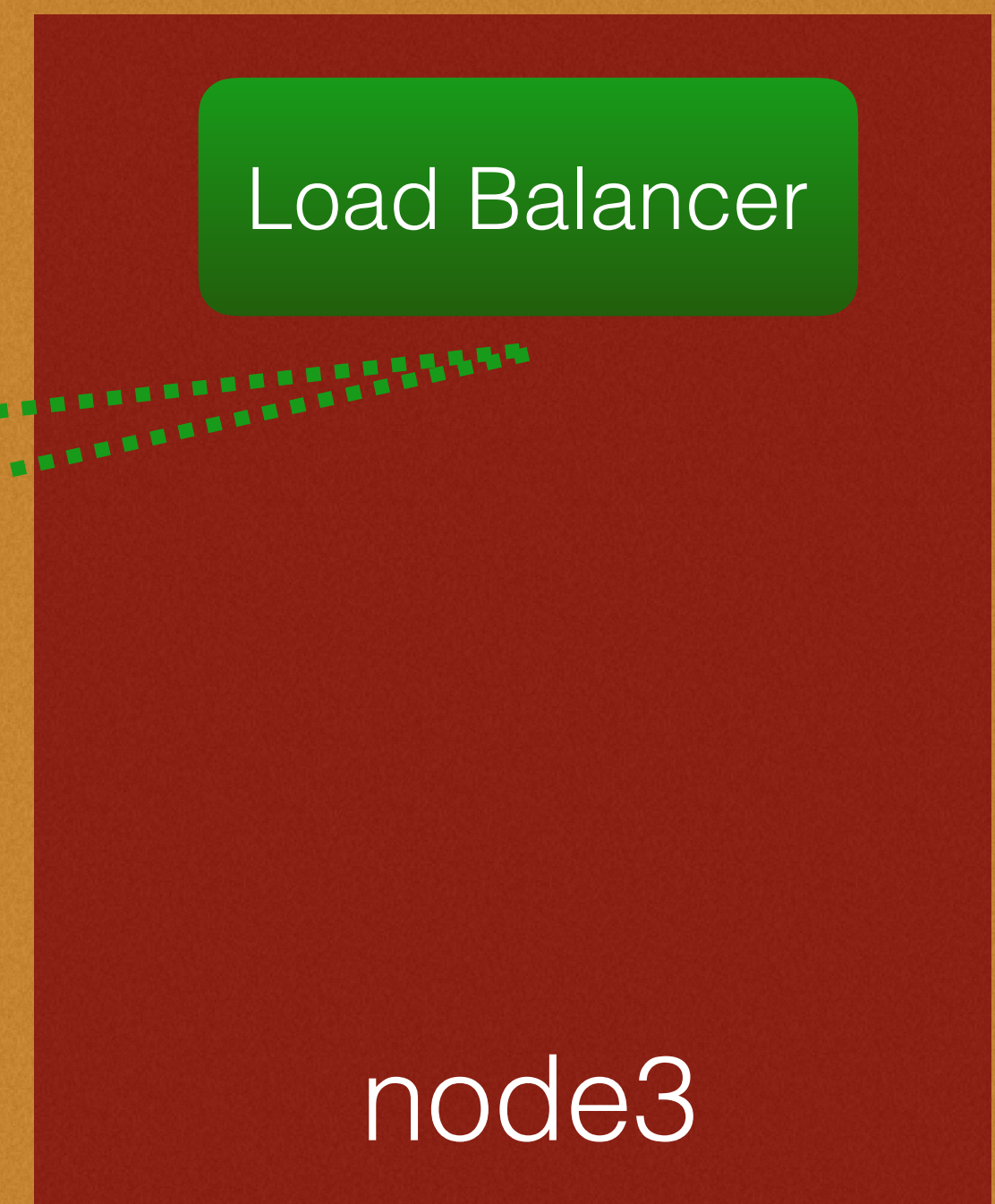
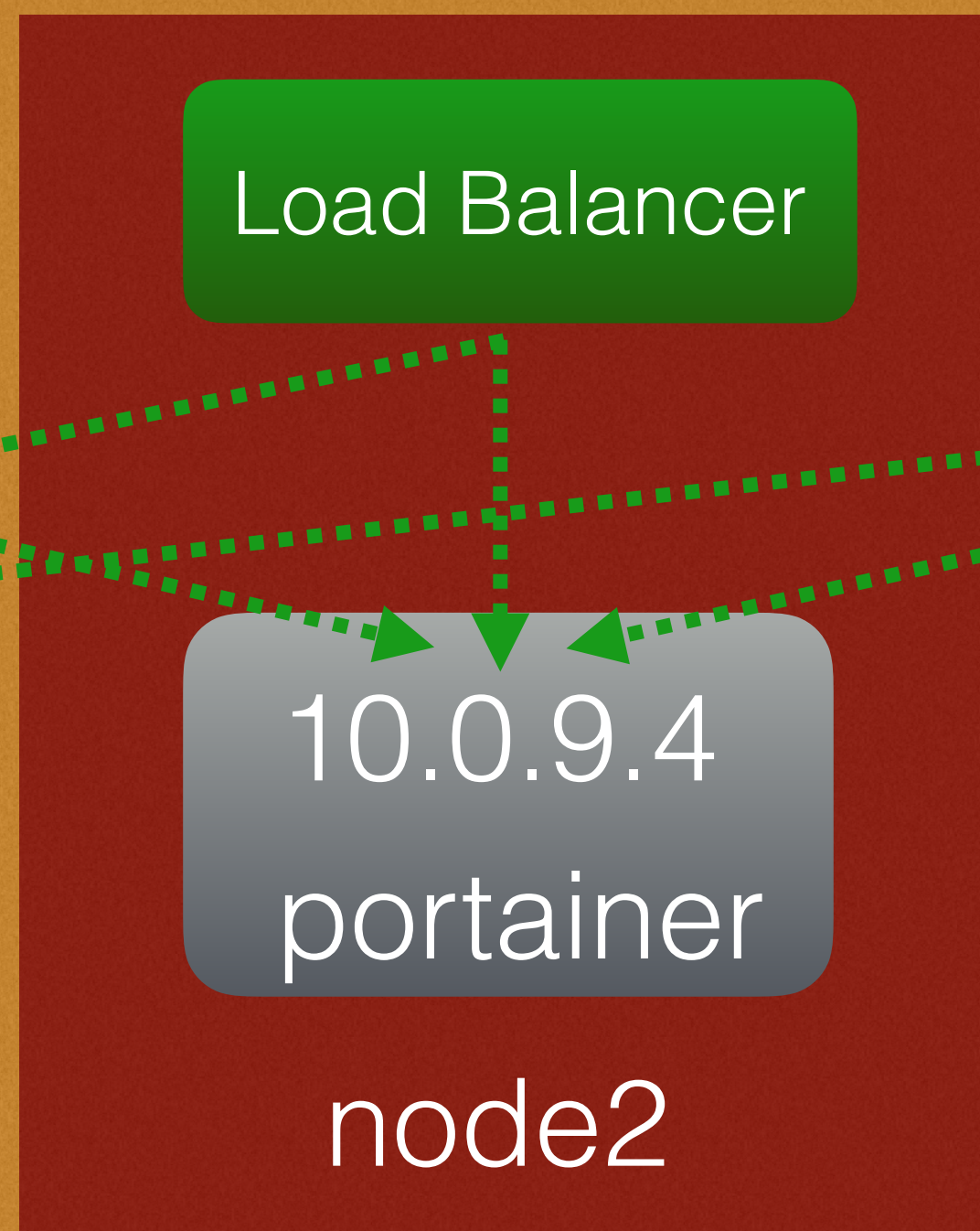
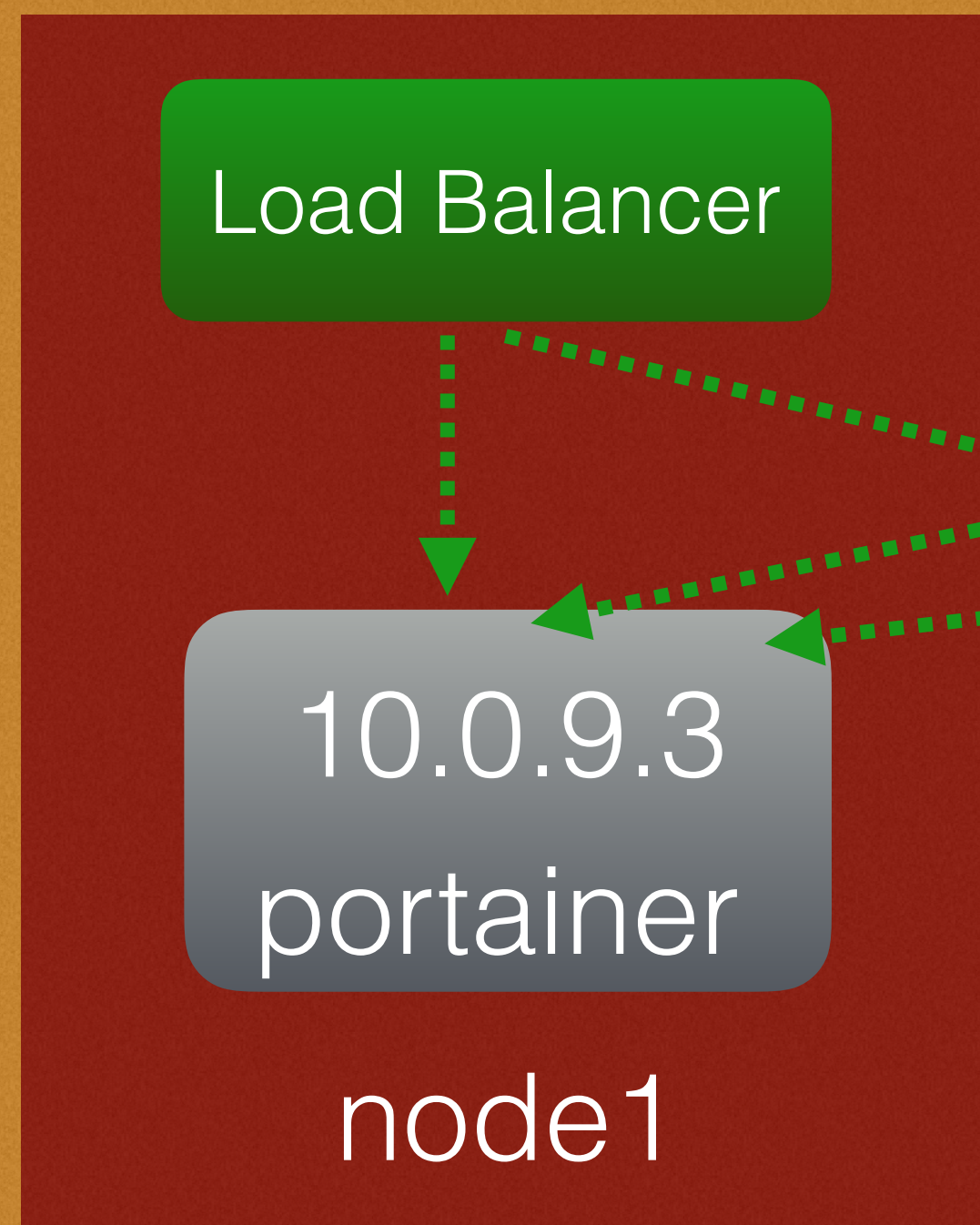
Virtual Network



↓
107.170.85.203:80

↓
107.170.87.44:80

↓
107.170.87.50:80



Ingress Network

External Load Balancer

107.170.85.203:80

107.170.87.44:80

107.170.87.50:80

Load Balancer

10.0.9.3
portainer

node1

Load Balancer

10.0.9.4
portainer

node2

Load Balancer

node3

Ingress Network

