



KUBERNETES FUNDAMENTALS (LFS258)

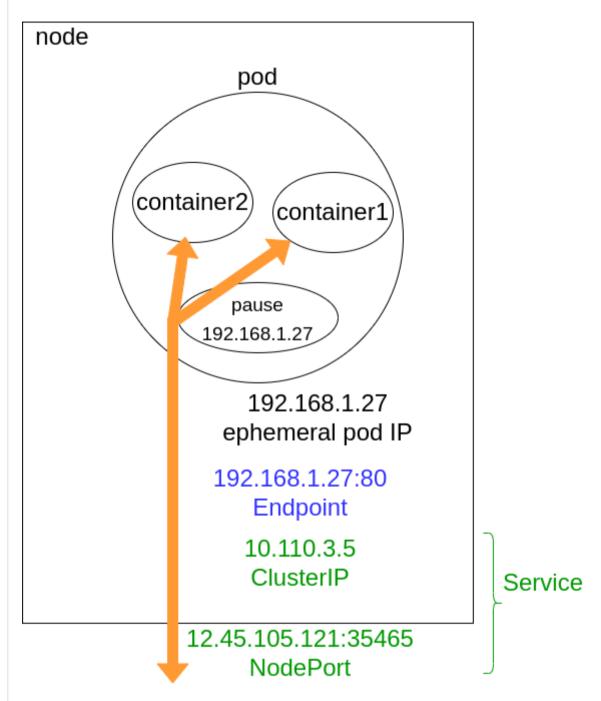
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Container to Outside Path

This graphic shows a node with a single, dual-container pod. A NodePort service connects the Pod to the outside network.



Container/Services Networking

Even though there are two containers, they share the same namespace and the same IP address, which would be configured by kubectl working with kube-proxy. The IP address is assigned before the containers are started, and will be inserted into the containers. The container will have an interface like eth0@tun10. This IP is set for the life of the pod.

The endpoint is created at the same time as the service. Note that it uses the pod IP address, but also includes a port. The service connects network traffic from a node high-number port to the endpoint using iptables with ipvs on the way. The kube-controller-manager handles the watch loops to monitor the need for endpoints and services, as well as any updates or deletions.