

Kubernetes Networking – Exact Reference

Kubernetes networking model: every Pod gets its own IP; no NAT between Pods; Pods can communicate across nodes.

CNI plugins: Calico (policy + routing), Cilium (eBPF), Flannel (overlay), Weave.

Services: ClusterIP (internal), NodePort, LoadBalancer, ExternalName.

kube-proxy modes: iptables, ipvs, eBPF replacement.

Ingress vs Gateway API: Ingress (L7 HTTP), Gateway API (traffic separation, multi-tenancy).

Network Policies: namespaceSelector, podSelector, ingress/egress rules.

DNS: CoreDNS, kube-dns replacement, stubDomains.

Service Mesh basics: Istio/Linkerd traffic interception via sidecars.