

## 09-service

Service What it is Service provides stable networking and load balancing to matching Pods.  
When to use Stable internal endpoint for changing Pods Expose workloads inside or outside cluster  
Service types ClusterIP: internal-only (default) NodePort: exposes on each node IP + port  
LoadBalancer: cloud LB integration ExternalName: DNS alias to external service Key fields  
spec.selector: targets Pod labels spec.ports[]: service and target ports spec.type:  
exposure model Common commands bash kubectl get svc kubectl expose deployment web --port=80 --target-port=80 --type=ClusterIP kubectl describe svc web kubectl get endpoints web kubectl delete svc web YAML example yaml apiVersion: v1 kind: Service metadata: name: web spec: type: ClusterIP selector: app: web ports: - name: http port: 80 targetPort: 80 Practical notes Selectorless Service can be paired with manual Endpoints/EndpointSlices. port is client-facing, targetPort is Pod container port.