

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 yml 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.