Linkerd Service mesh CLI

CONCEPTS

The CLI only prints YAML: pipe it to kubectl apply -f - to change the cluster.

linkerd install CRDs, then control plane
↓ linkerd check
Control plane identity, destination, policy
↓ inject
Meshed pods proxy sidecar per pod
↓ viz install
Viz extension stat, tap, top, dashboard

Install order matters: CRDs first, then the control plane, then extensions such as viz.

Meshing is done at pod creation: restart workloads after annotating them.

INSTALL & UPGRADE

linkerd check --pre
Pre-flight cluster checks

linkerd install --crds | kubectl apply -f -
Install the CRDs

linkerd install | kubectl apply -f -
Install the control plane

linkerd viz install | kubectl apply -f -
Install the viz extension

linkerd install --ha
High-availability control plane

CHECK & VERSION

linkerd check
Verify the control plane

linkerd check --proxy -n *<ns>*
Verify data-plane proxies

linkerd version
Client and server versions

INJECT

linkerd inject *<file|dir|URL⟶>*
Annotate manifests for meshing

kubectl get deploy *<name>* **-o yaml | linkerd inject - | kubectl apply -f -**
Mesh a live deployment

kubectl annotate ns *<ns>* **linkerd.io/inject=enabled**
Auto-inject a whole namespace

linkerd uninject *<file⟶>*
Remove the injection annotation

DASHBOARD

linkerd viz dashboard
Open the web dashboard

METRICS

linkerd viz stat deploy -n *<ns>*
Success rate, RPS, latency

linkerd viz stat *<kind>*/*<name>* **-n** *<ns>*
Stats for one resource

linkerd viz edges deploy -n *<ns>*
Show who talks to whom (mTLS)

LIVE TRAFFIC

linkerd viz tap deploy/*<name>* **-n** *<ns>*
Stream live requests

linkerd viz top deploy/*<name>* **-n** *<ns>*
Top-like live table of requests

UNINSTALL

linkerd uninstall | kubectl delete -f -
Remove the control plane

GLOBAL FLAGS

-n, --namespace *<ns>*
Namespace of the resource