

Istio Cheatsheet

Installation and Setup

istioctl install

Install Istio with default configuration

istioctl install --set profile=demo

Install Istio with demo profile

istioctl version

Check Istio version

istioctl verify-install

Verify Istio installation

Traffic Management

kubectl apply -f <virtual-service-file.yaml>

Apply virtual service configuration

kubectl apply -f <destination-rule-file.yaml>

Apply destination rules

kubectl apply -f <gateway-file.yaml>

Apply gateway configuration

istioctl analyze

Analyze Istio configuration for potential issues

Observability

istioctl dashboard prometheus

Launch Prometheus dashboard

istioctl dashboard grafana

Launch Grafana dashboard

istioctl dashboard jaeger

Launch Jaeger dashboard for tracing

istioctl dashboard kiali

Launch Kiali dashboard for service mesh visualization

Security

kubectl apply -f <authentication-policy.yaml>

Apply authentication policy

kubectl apply -f <authorization-policy.yaml>

Apply authorization policy

istioctl experimental authz check <pod-name>

Check authorization policy for a pod

Troubleshooting

istioctl proxy-status

Check synchronization status of Envoy proxies

istioctl proxy-config clusters <pod-name>

Inspect Envoy cluster configuration

istioctl proxy-config routes <pod-name>

Inspect Envoy route configuration

istioctl proxy-config listeners <pod-name>

Inspect Envoy listener configuration

istioctl proxy-config endpoints <pod-name>

Inspect Envoy endpoint configuration

istioctl proxy-config log <pod-name> --level=debug

Set Envoy log level

Misc

kubectl -n istio-system get pods

List Istio system pods

kubectl -n istio-system get svc

List Istio system services

istioctl x uninstall --purge

Completely uninstall Istio