



ContribFest





— Europe 2023

Introductions







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Agenda



- Overview of Contour
- Brief outline of repo organization
- Basics of tooling & process for making contributions
- Demo
- Set up dev environments / work on issues / open discussion







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Poll

What is Contour?

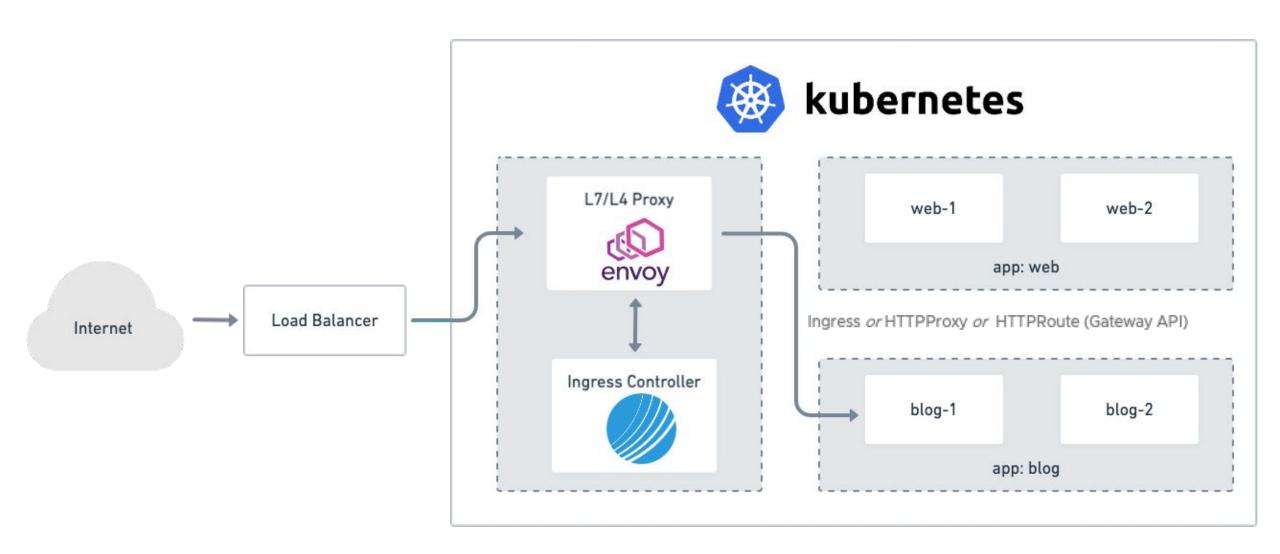




- Kubernetes ingress controller using Envoy Proxy
- CNCF incubating project since 2020
- Path/header/query-based routing, TLS termination, rate limiting, external auth, upstream TLS and much more
- Supports HTTPProxy CRD, Ingress, and Gateway API

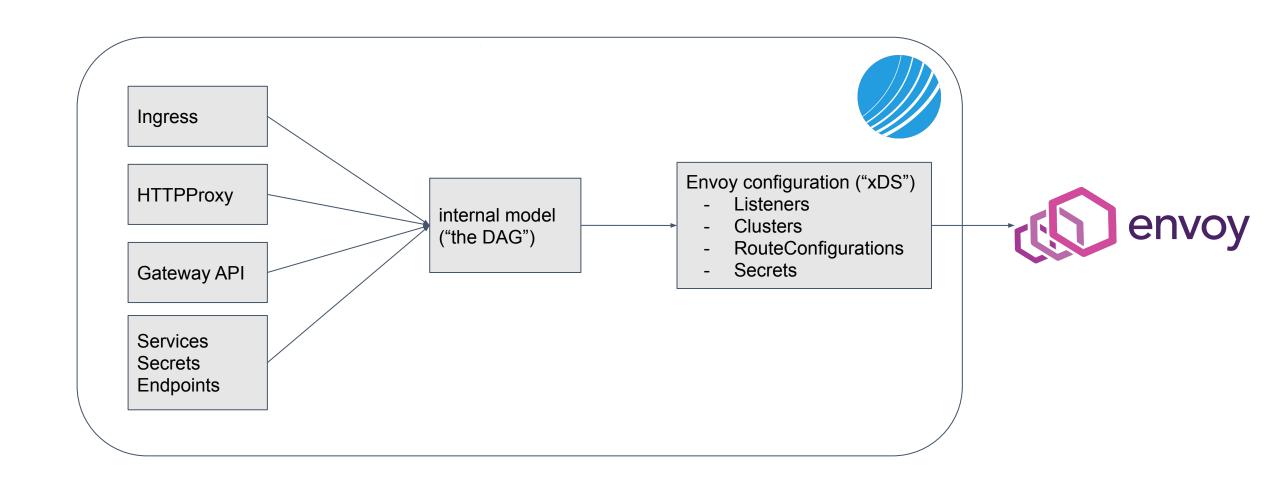
Architecture





Translation Flow





Repo Organization



- cmd/contour/serve.go: entrypoint for the Contour control plane



- internal/dag: internal model and processors to translate from Kube to DAG
- internal/envoy/v3: functions for translating from DAG to xDS
- internal/xdscache/v3: caches for serving xDS; call functions from internal/envoy/v3
- internal/provisioner: dynamic provisioning of Contour instances for Gateway API
- hack/: tooling & scripts
- site/content/docs: https://projectcontour.io/docs source

Tooling



- minimum: git, go
 - git clone git@github.com:YOUR-USERNAME/contour.git
 - go build ./cmd/contour
 - go test ./...
- better: make, docker, kind, kubectl, jq, yq
 - make install-contour-working
 - make install-provisioner-working
 - make checkall



Contributing Process



- Create a feature branch
 - git checkout -b my-feature-branch upstream/main
- Make changes
- Commit your changes
 - git add . && git commit --signoff
- Push to GitHub
 - git push --set-upstream origin my-feature-branch
- Open a pull request



DCO signoff; important!





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Demo

Let's Get Started!



- https://github.com/projectcontour/contour/blob/main/CONTRIBUTING.md



- https://github.com/projectcontour/contour/labels/contribfest
 - Comment on an issue if you start working on it
 - Add "Co-authored-by: Name <email>" to commit if working in a group
 - Sample workload: https://projectcontour.io/examples/kuard.yaml
- Experienced contributors: open discussion on roadmap & feature design
 - e.g. data path extensibility via Wasm, external processing, etc.
 - Outcomes: roadmap PRs, issue updates, spikes/PoCs
- Work doesn't have to be completed today!

Contour Community









projectcontour.io https://projectcontour.io/community/

#contour

project-contour@googlegroups.com

20M+ Image Pulls 190+ Contributors 600+ Forks

0+ rks



3.4k GitHub Stars 95 Releases 130+ Contributing Companies

@projectcontour

https://github.com/projectcontour

1,250 Slack members 17 Blogs 8 KubeCon talks 1k+ Twitter followers



https://www.youtube.com/channel/UCCde7 QSfcyYJ8AuXofD5bTA



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