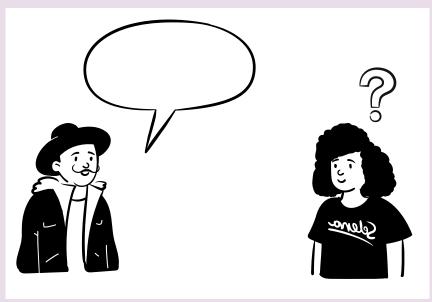




Speaking Through Policies





Personas

Infra Provider





Cluster Operator



App Developer

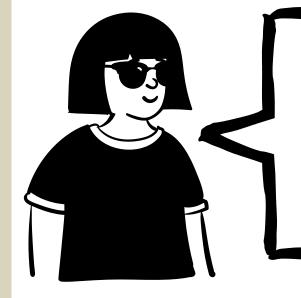




Ana: App Developer

I work with Chihiro at Evil Genius Cupcakes, where I am an **App Developer**.

My team **writes, deploys and maintains** software on **Kubernetes**, that the employees of our company use to operate the production of cupcakes.



Recently, I worked on the latest version of our "baker" **service**, which is ready to be deployed to **staging**.

Chihiro: Cluster Operator (aka Platform Engineer)

I work with Ana at **Evil Genius Cupcakes**My team **maintains** the **platform** where Ana **deploys** her apps.

We set up **ingress gateways** that route the traffic to the services.

We configure the top connectivity and security of the gateways (e.g.: DNS, TLS certs, etc).

We also ensure that some company-level **policies** are being **enforced**.



Ian: Infrastructure Provider

I work for the company "Infra 4 bakers" providing **K8S** clusters with batteries included, ready for their use. Including **Gateway API** and **Kuadrant**

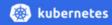


Cluster Ready

Our Infrastructure provider, Ian, span up this cluster for us and installed a **gateway controller** in advance.









Balancer



Controller

















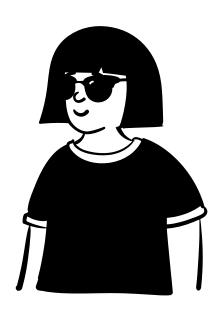
Deploy Baker Service

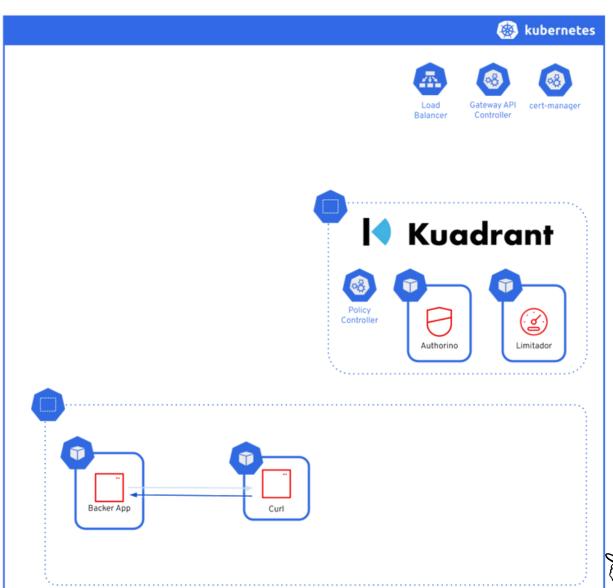
My work depends on Chiriro's a little, because the **gateways** must be there, but once they are, we're very autonomous regarding how we deploy the apps and roll out new versions.

We have a **namespace** where we configure the apps.

This is typically done via automation integrated with our code repositories, but today I will be demoing my day-to-day using the **kubectl CLI** tool.

In fact, I am about to **deploy** the **`baker`** service I mentioned before.







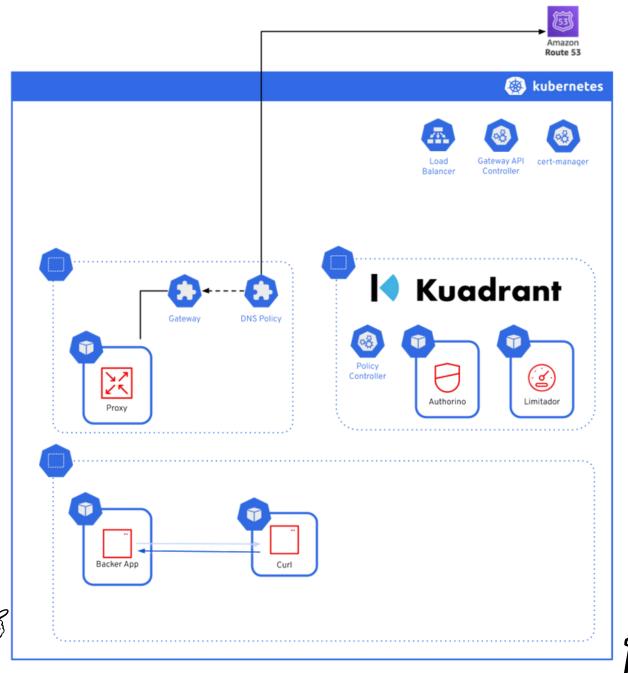
Configure Ingress Gateway

In the meantime, I'm finishing configuring an **ingress gateway** that will be used to route the **traffic to the services**.

So now, I can focus on the gateway configuration.

This gateway is going to be a centralised point of connectivity and policy enforcement for the data plane.

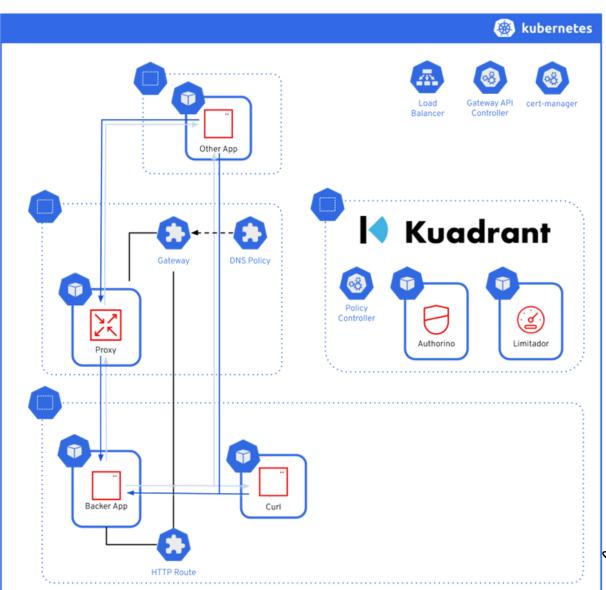


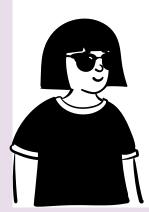




Connecting to the Gateway

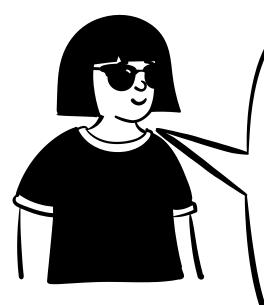








Securing the Gateway



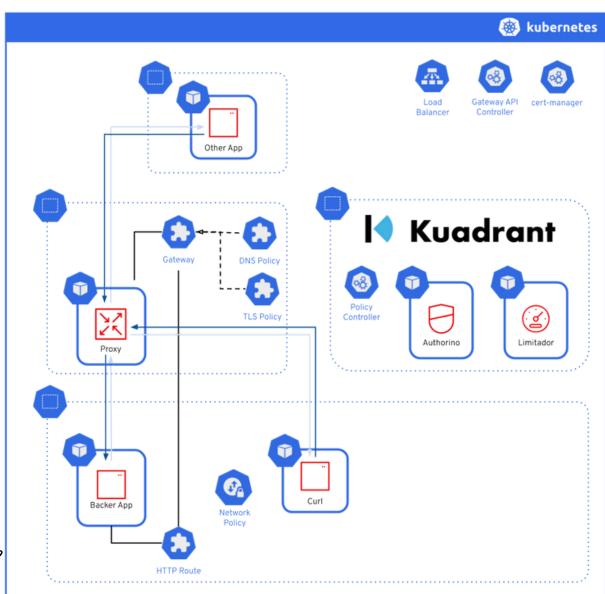
Thanks for the heads up. I've also seen in the HTTPRoute
Status that there is a DNS
Policy
affecting it.

I've applied a **NetworkPolicy** so all the traffic goes through the ingress gateway.

That's right, here's the host name:

cupcakes.demos.kuadrant.io



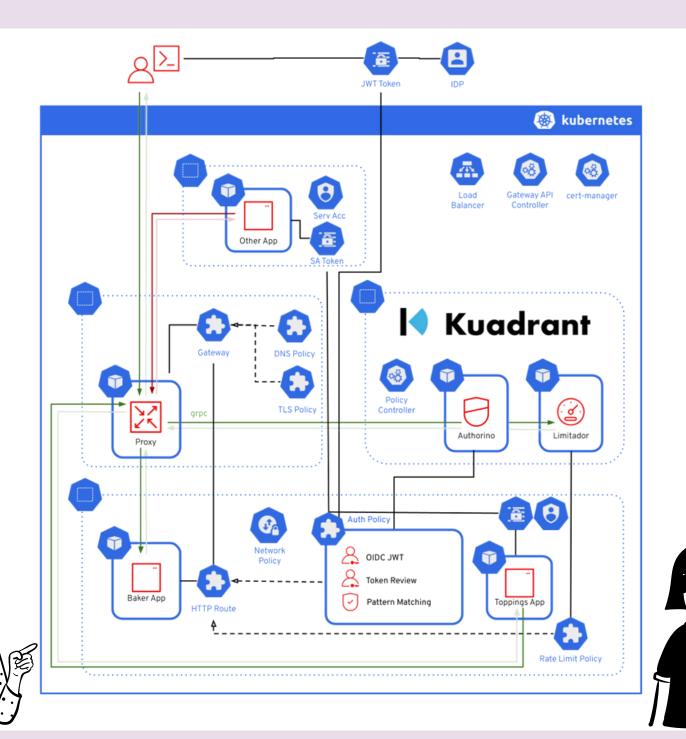




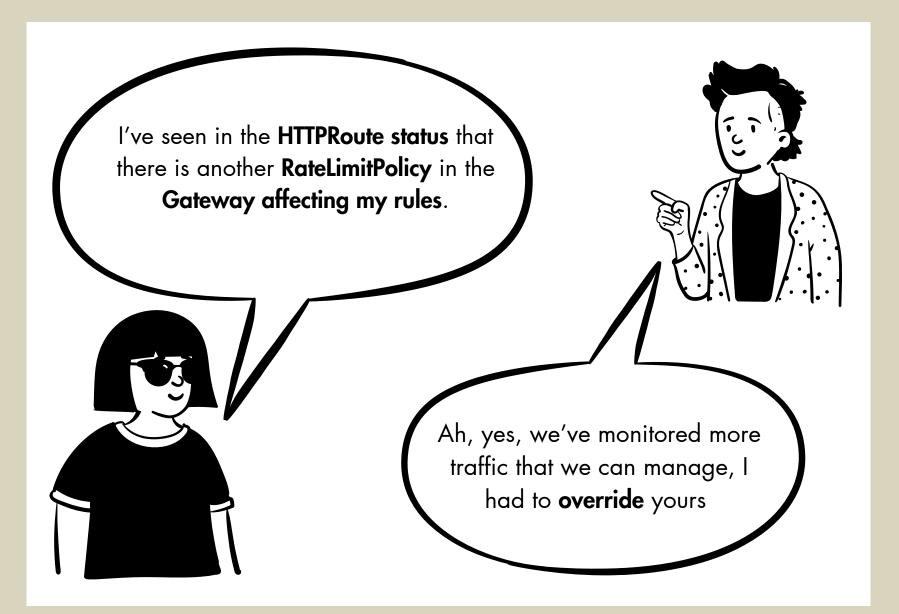


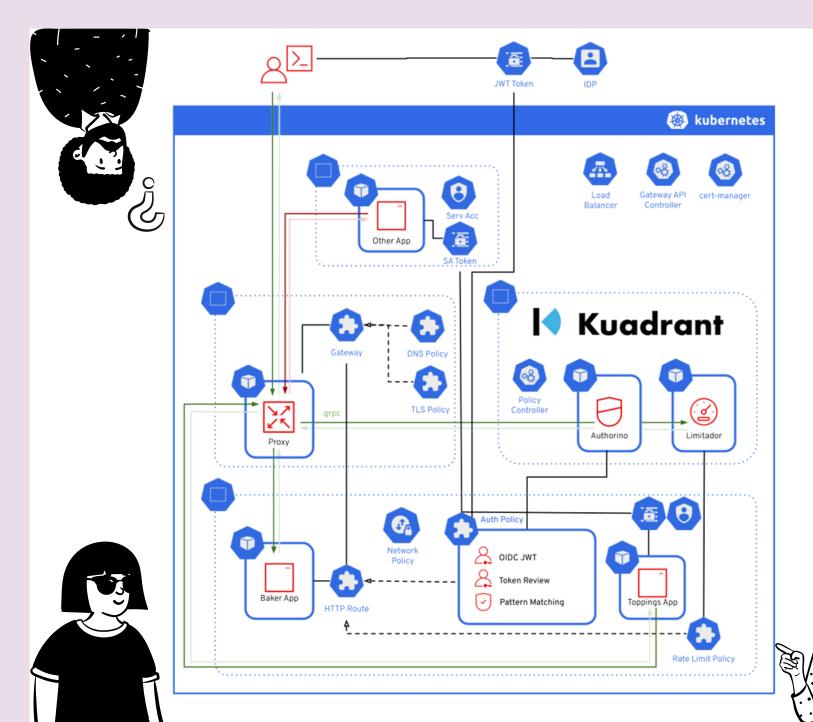
Authenticated Traffic





Rate limiting





Questions ?





- @ddicesare
- @didierofrivia
- @mastodon.online/@didierofrivia



- @guilherme-cassolato
- @guicassolato