



Evolving your APIs

A step-by-step approach

 [@nicolas_frankel](https://twitter.com/nicolas_frankel)

Me, myself and I



- Developer
- Developer advocate



 [@nicolas_frankel](https://twitter.com/nicolas_frankel)

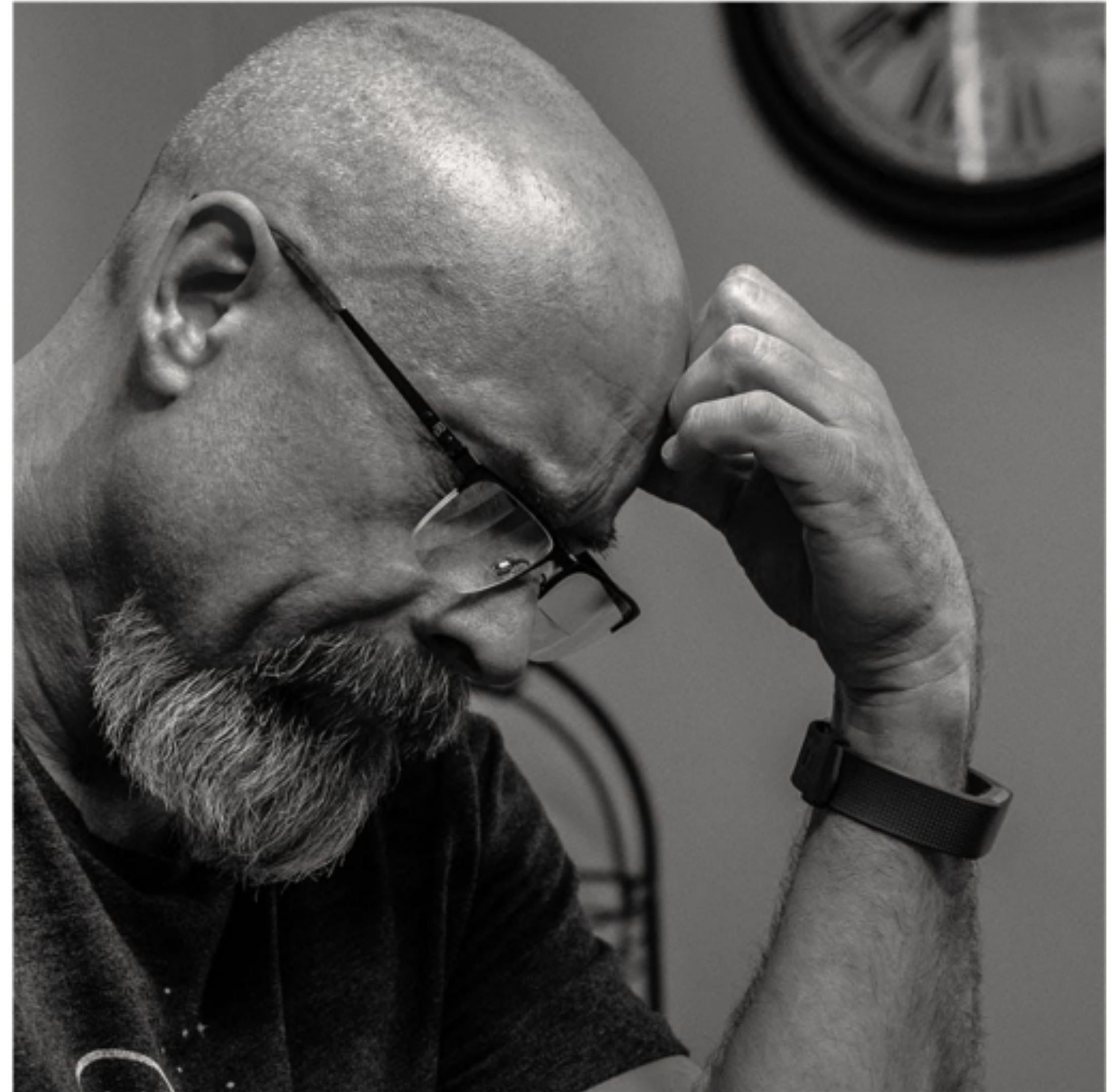
Apache APISIX



Your first API



- Probably focused on REST(ful) semantics



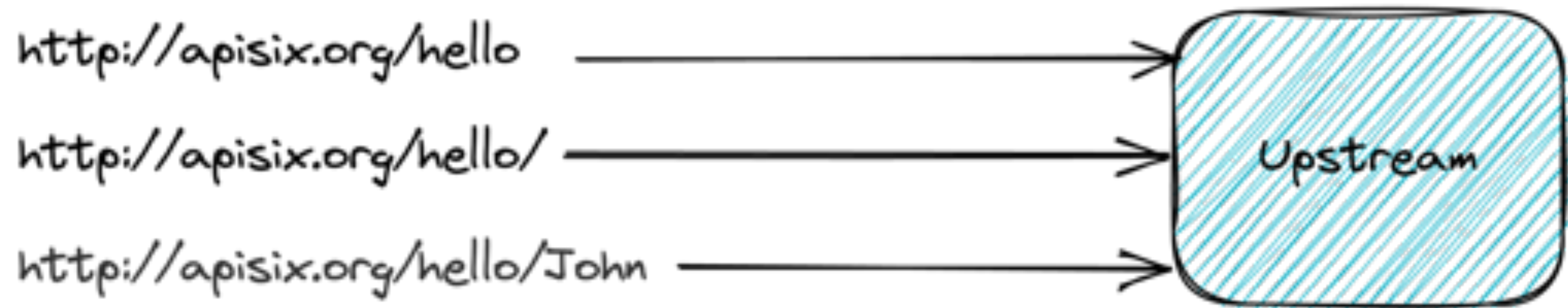
We need to deploy v2!



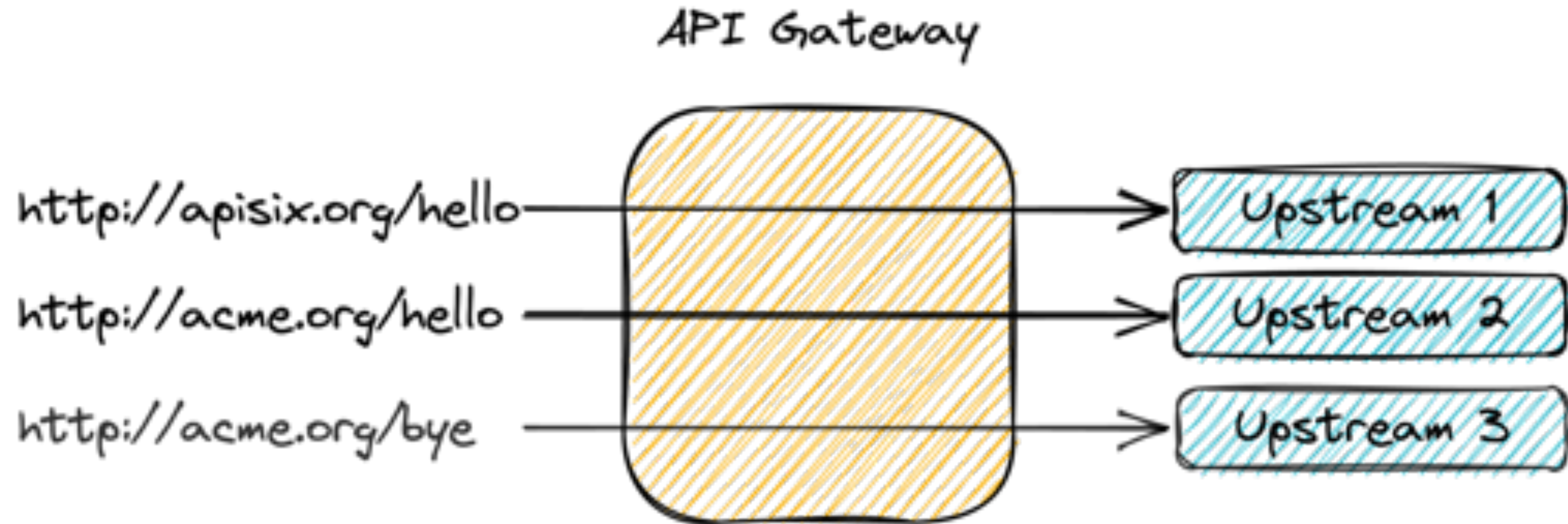
Step 1 – The initial situation



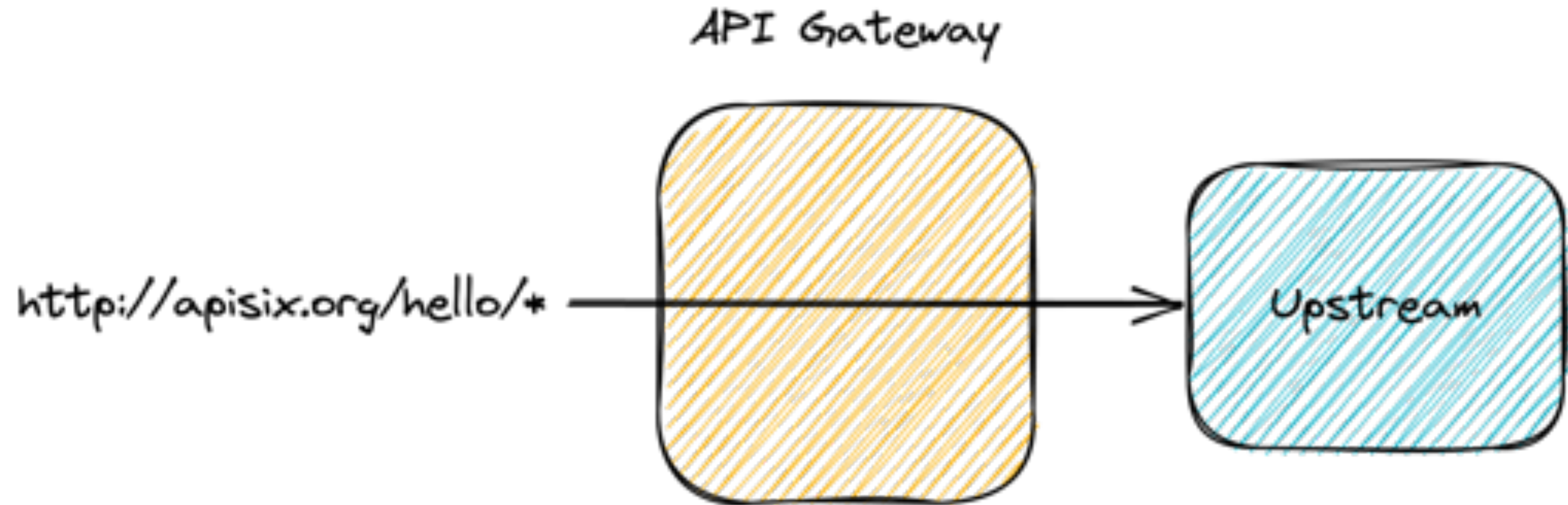
No Gateway



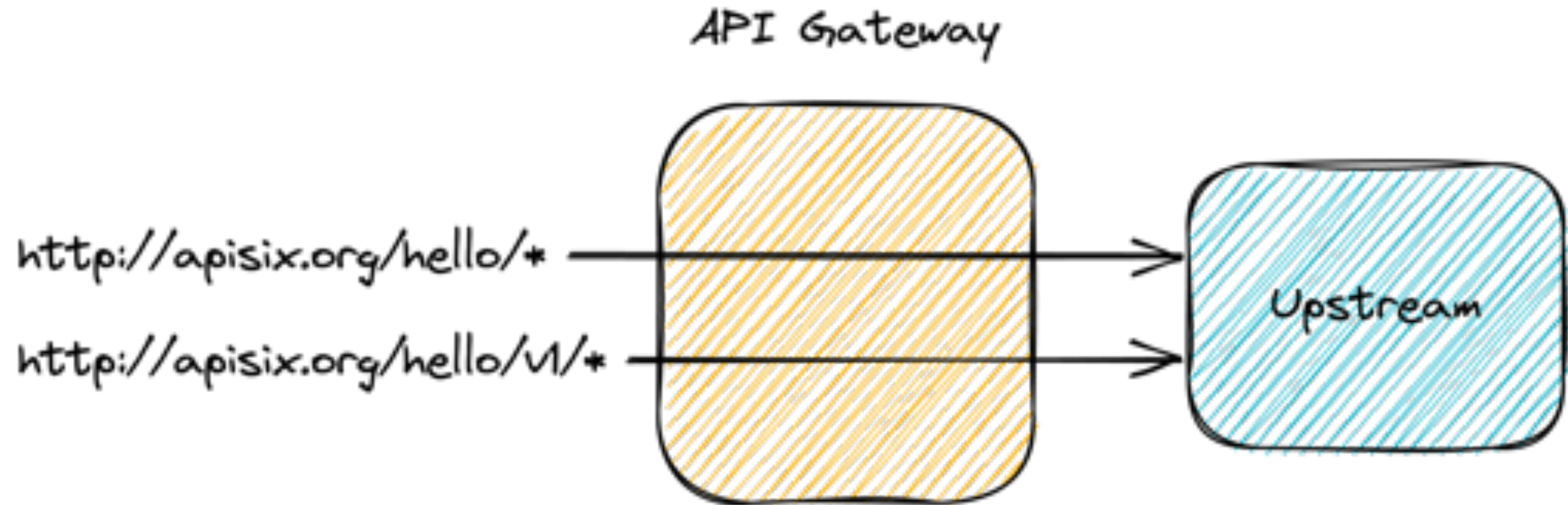
An API Gateway can help!



Step 2 – Introduce an API Gateway



Step 3 – Introduce a versioned resource



Step 4 – Move the unversioned resource permanently

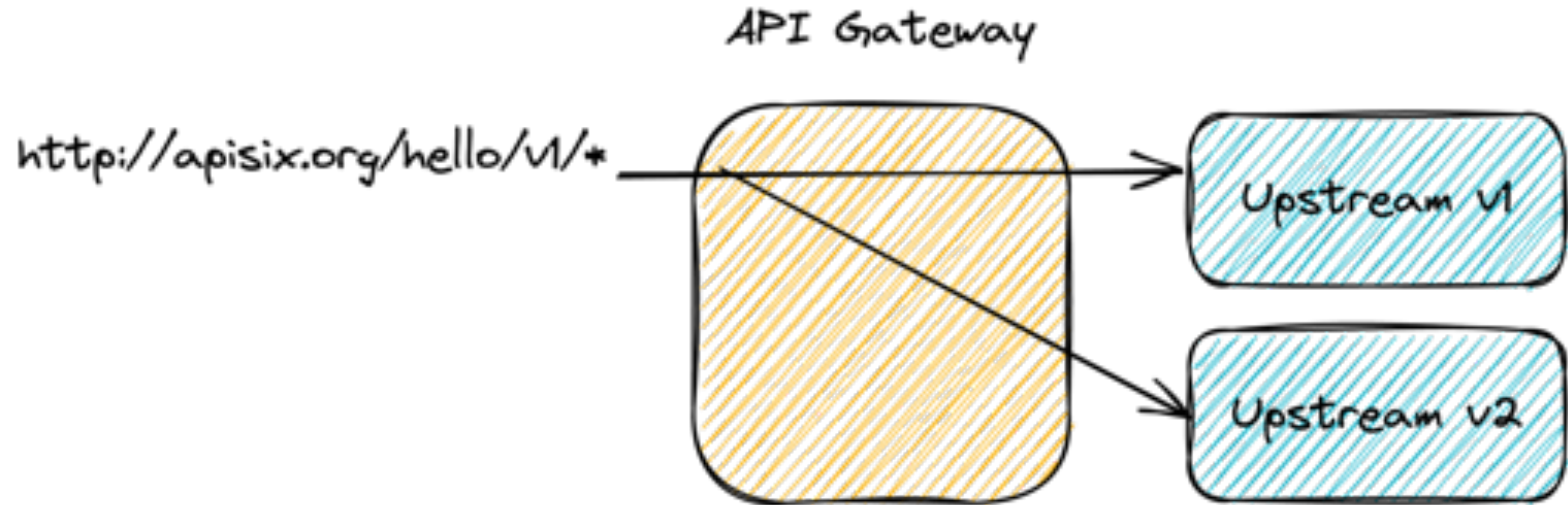


Step 5 – Make users register

- Hard to change because we don't know our users
- But developers don't like to register
- Provide them an incentive
 - 429



Step 6 – Test in production but be smart about it



Step 7 – Use proven deployment methods

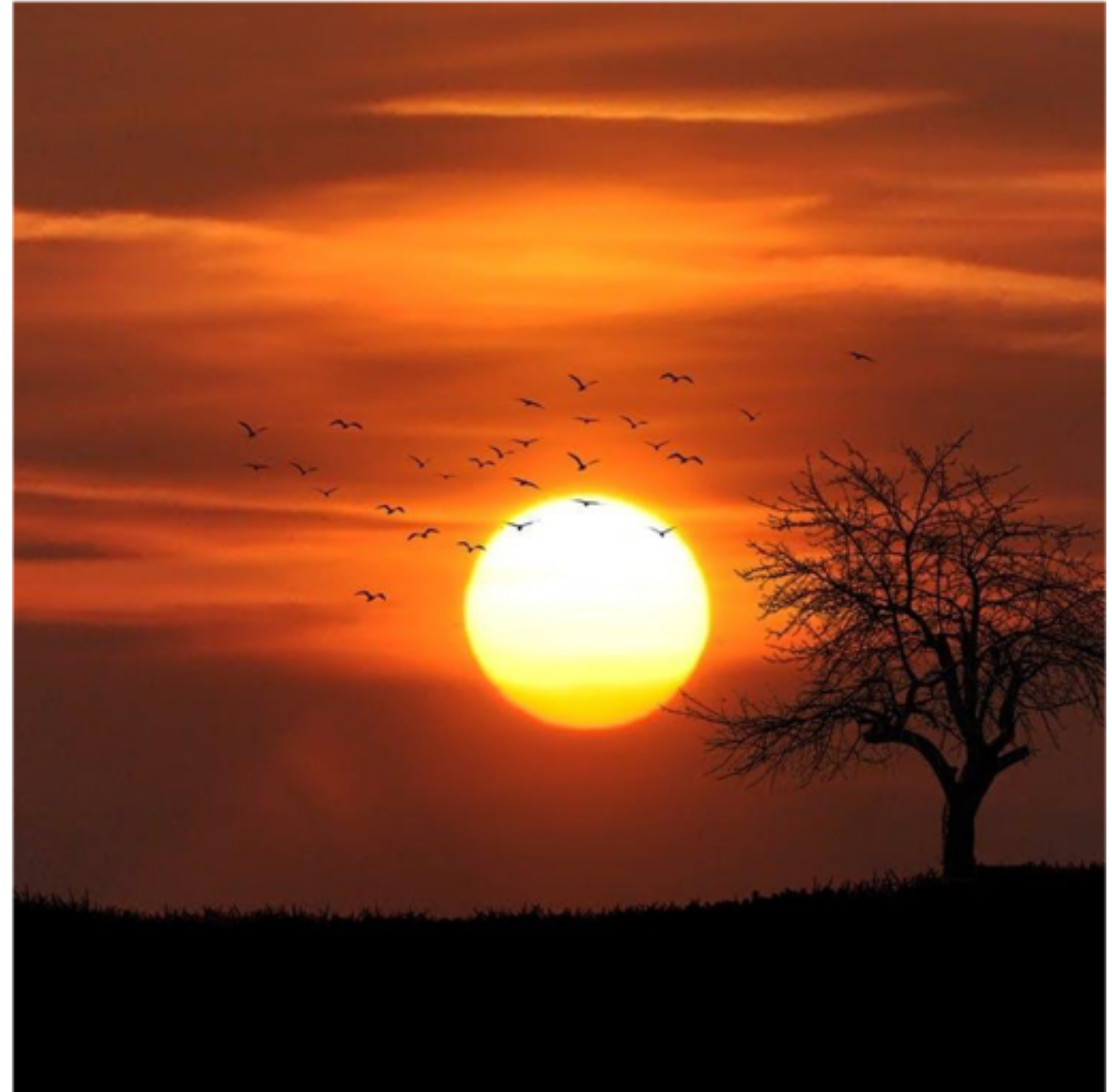


- Canary release for the win



Step 8 – Deprecate your endpoints

- IETF Draft
- Deprecation header
 - Date or Boolean
- Link header to point to the new resource
- Sunset header



Step 9 and afterwards – Time for v3!



Thanks for your attention!



- <https://blog.frankel.ch/>
- @nicolas_frankel
- <https://bit.ly/evolve-apis>
- <https://apisix.apache.org/>

