

Supporting Concurrency



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Coming Up

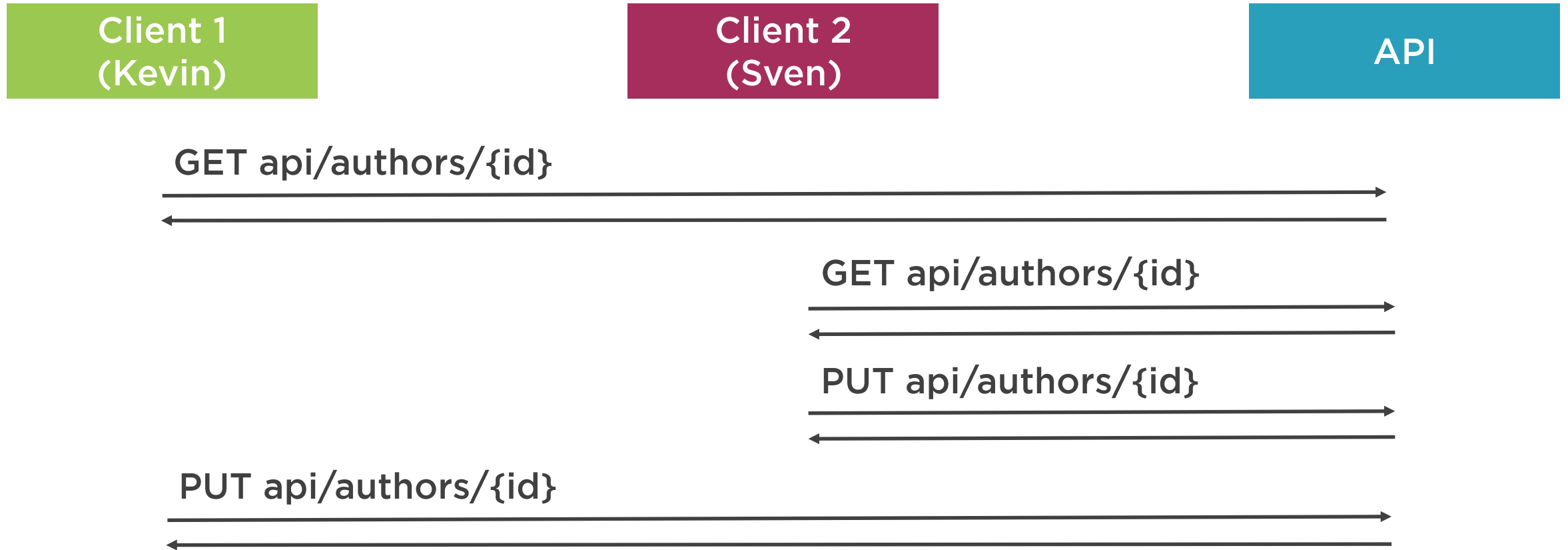


Supporting concurrency in a
RESTful world

Using ETags to support concurrency



Supporting Concurrency in a RESTful World



Concurrency Strategies

Pessimistic concurrency

Resource is locked

While it's locked, it cannot be modified
by another client

This is not possible in REST

Optimistic concurrency

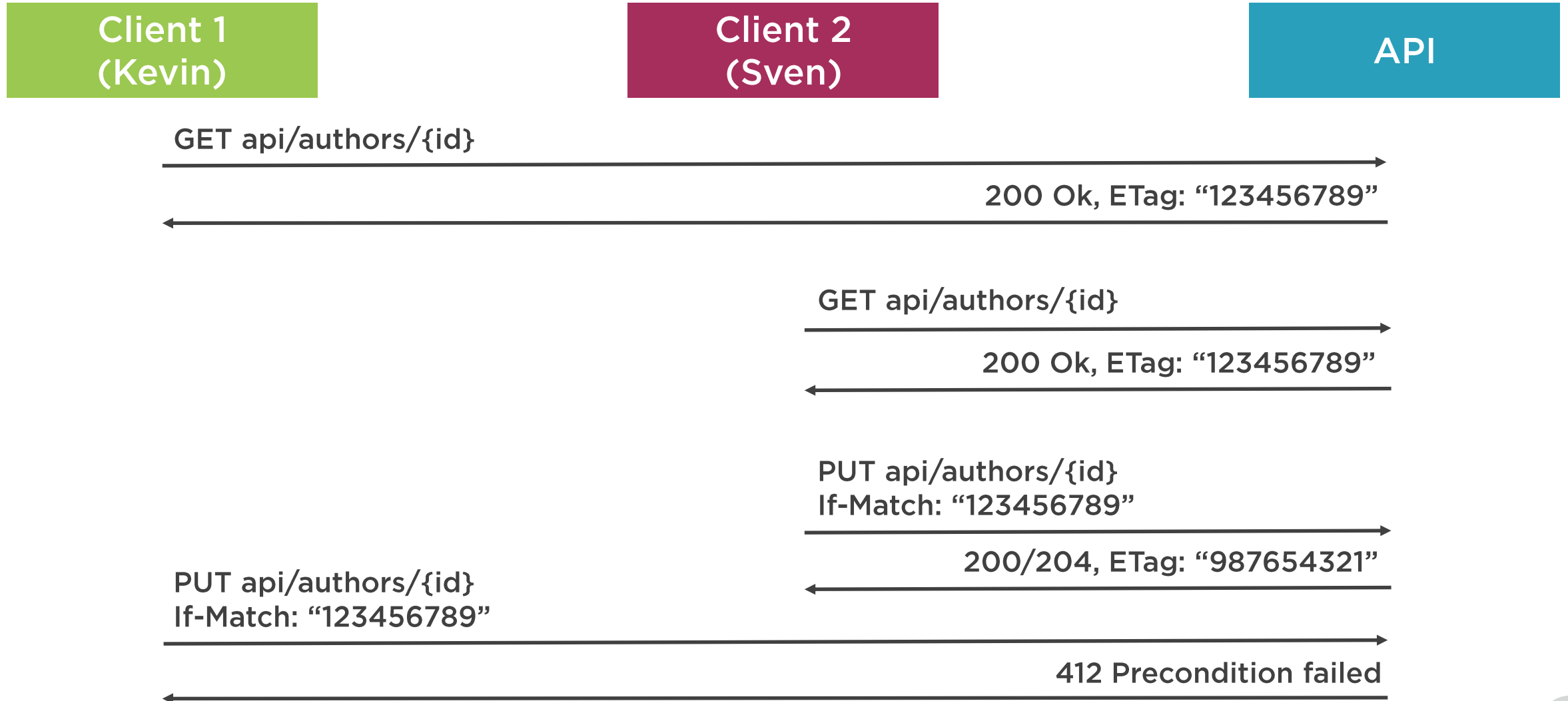
Token is returned together with the
resource

The update can happen as long as the
token is still valid

ETags are used as validation tokens



Supporting Concurrency in a RESTful World



Demo



Supporting concurrency



Summary



Use ETags as tokens/validators for an optimistic concurrency strategy

- Send as If-Match header value
- On mismatch, 412 Precondition Failed will be returned





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