

GEO-DISTRIBUTED MONITORING AND MORE WITH ZABBIX CLOUD

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Why does monitoring need to be geo-distributed at all?

The trigger

The business scales

The requirements change

Legal regulations



New markets. New regulations.

New customers who expect it nearby.

Infrastructure goes geo-distributed



Disaster recovery

If a region goes down, the business needs failover ready elsewhere - data, capacity, a working plan.



Latency

Users far from a single data center feel every extra millisecond - so infrastructure moves closer to them.



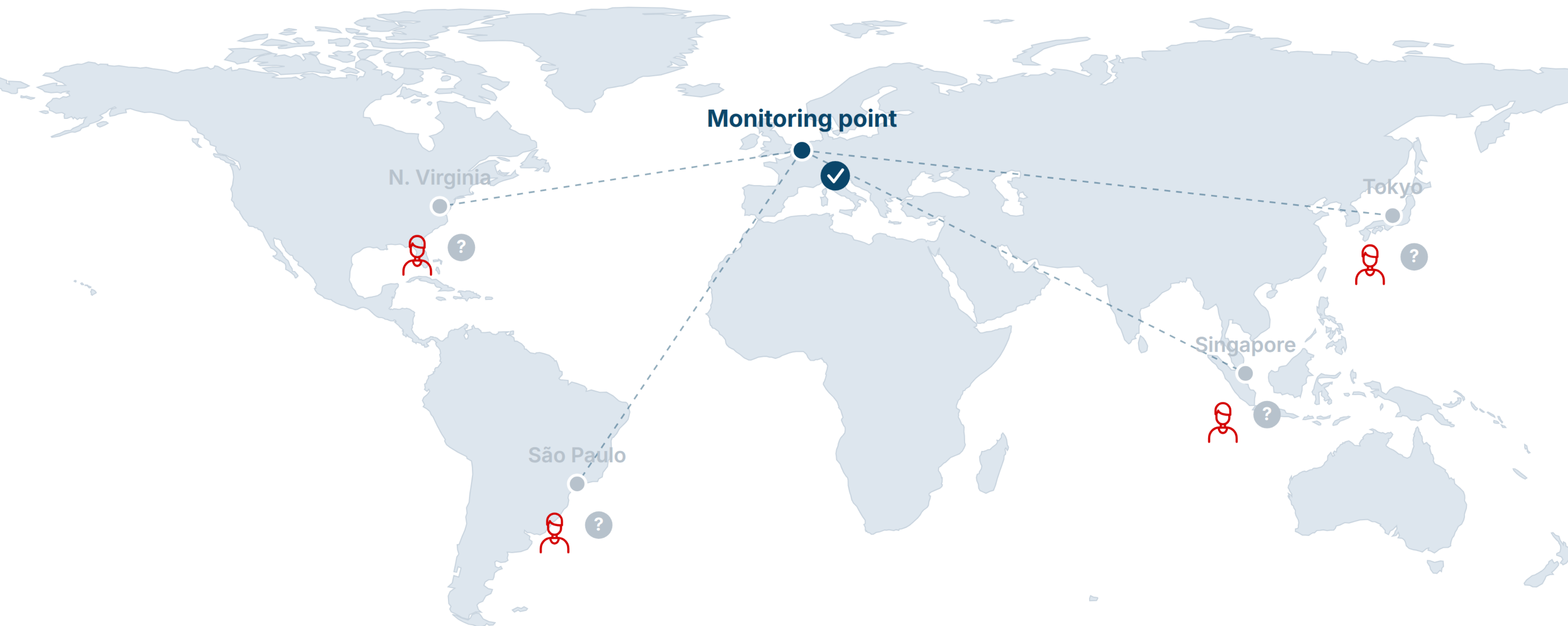
Network diversity

One network path is one point of failure - a hijacked or leaked route can cut off a whole region.



User experience

Local DNS, edge caching, regional partners - what works in one market can behave differently in another.



**One monitoring point sees its own path - not what
your users actually experience.**

Walking through it

Fintech business, four regions: challenge and solution.

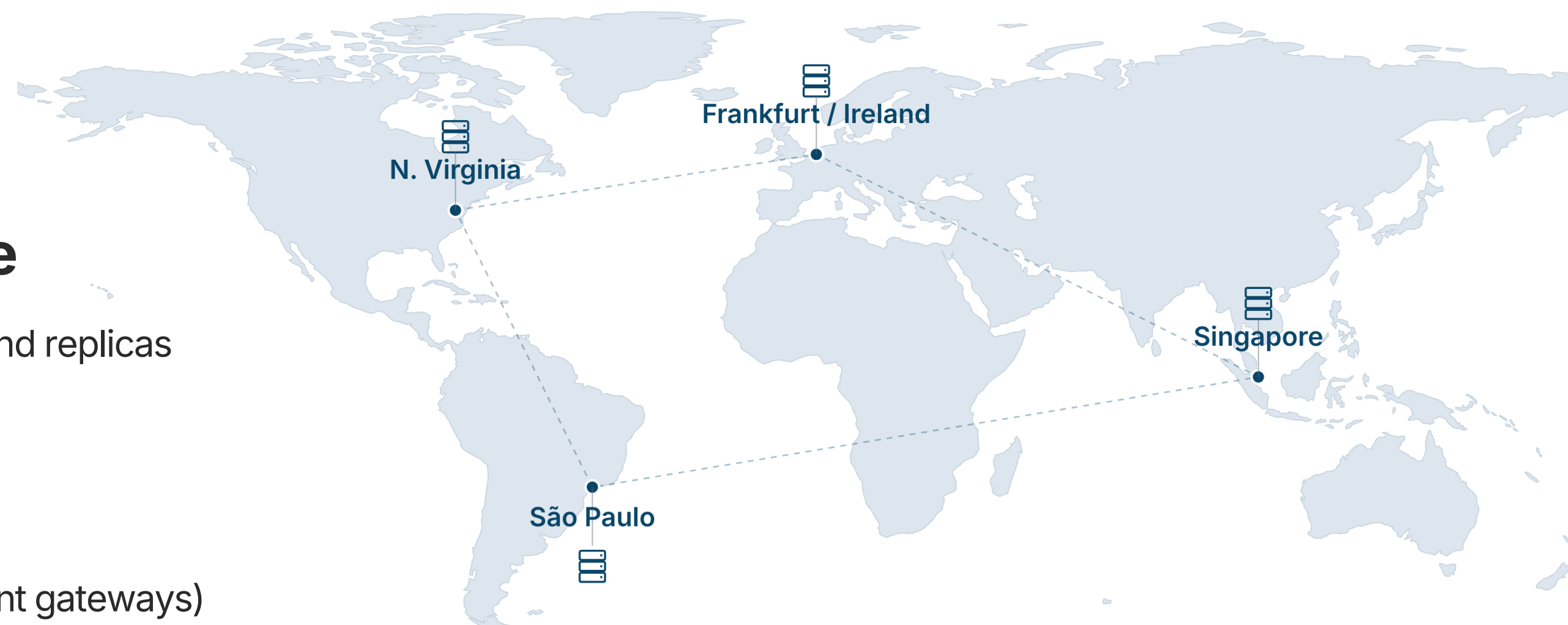


Its own infrastructure

Not just backed up: core systems and replicas actively serve traffic in each region.

Shared across every region:

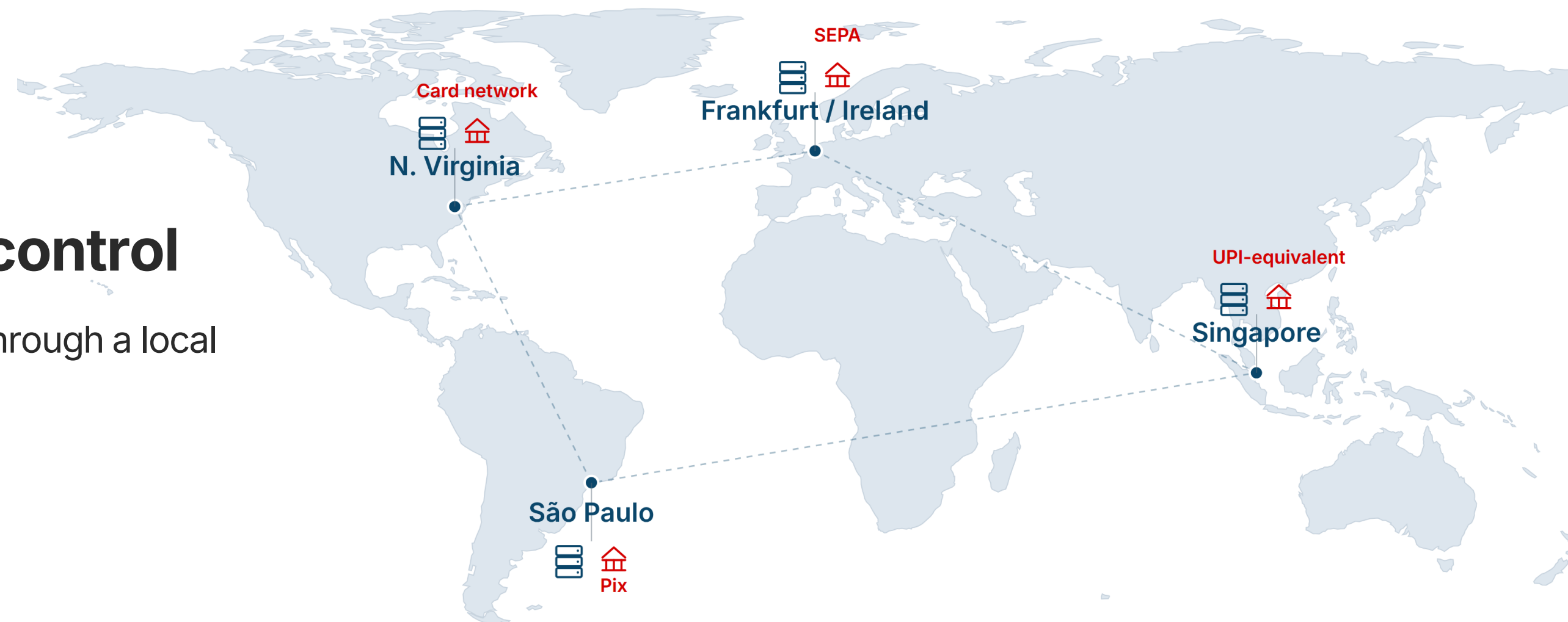
- KYC / AML provider
- Legacy colocation (HSMs, payment gateways)



Local rails it doesn't control

Each region also clears payments through a local rail it doesn't run itself:

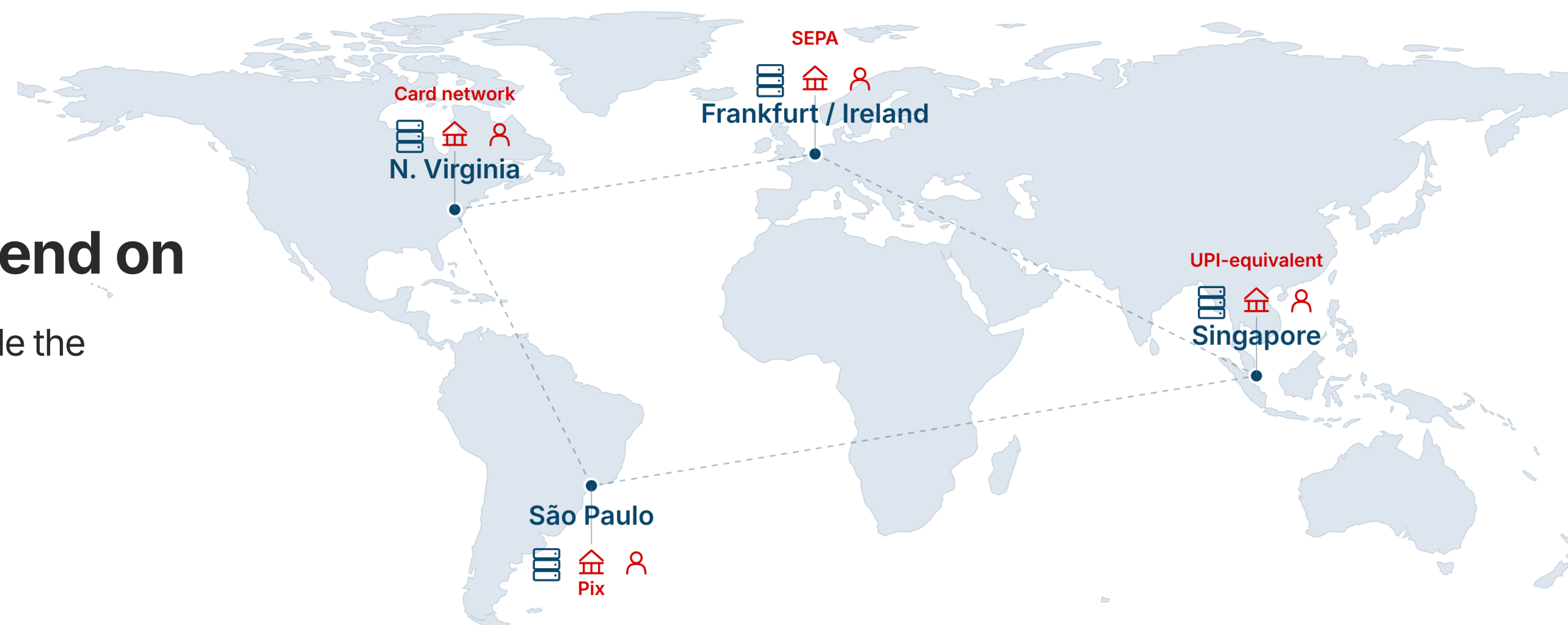
- Card network - N. Virginia
- SEPA - Frankfurt / Ireland
- Pix - São Paulo
- UPI-equivalent - Singapore



What customers depend on

And what depends on pieces outside the business's control:

- Local DNS resolution
- Edge / TLS termination
- Third-party services



Monitoring requirements



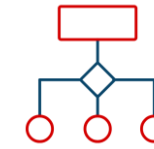
Internal systems

Global core systems, regional instances, legacy HSMs.



Regional replication

One inconsistent region and the business can't prove its own numbers.



Third-party services

A local payment rail, an identity provider, global AML screening - all outside its walls.



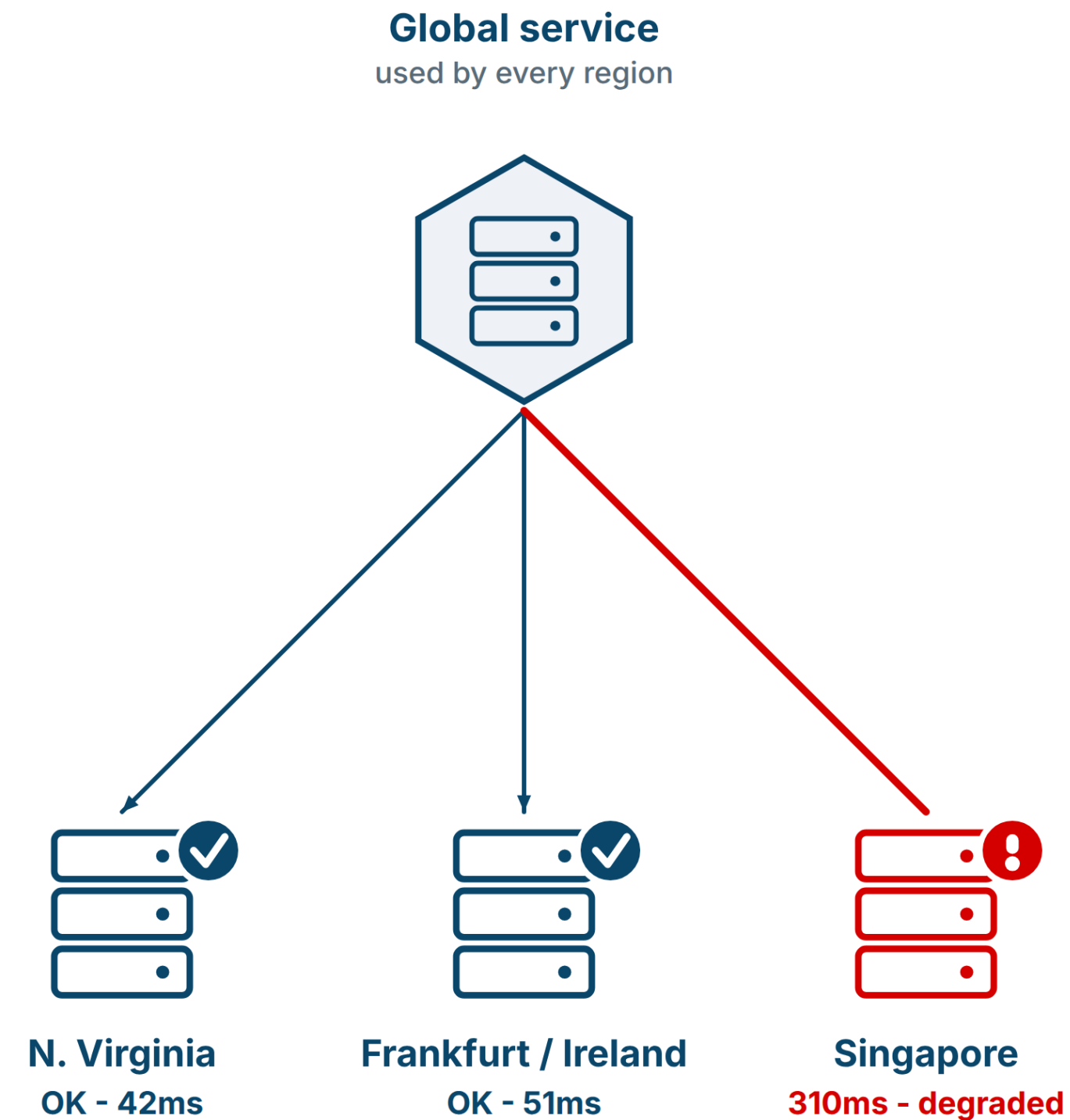
User experience

The exact quality of service a user gets in that specific region - not a global average.

Why it matters

One service. A different path per region.

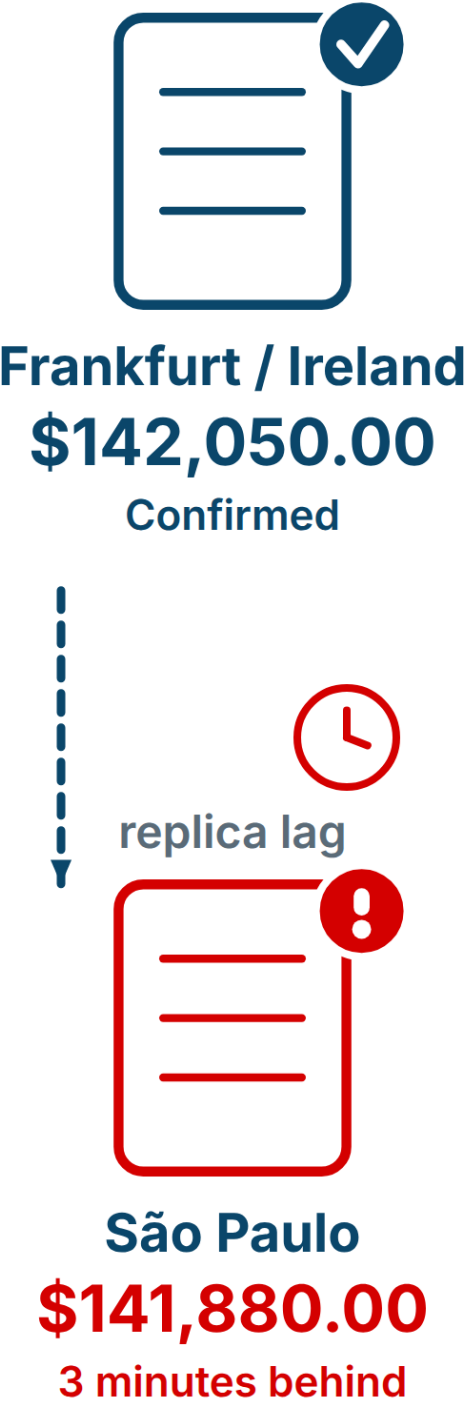
A central check says it's healthy. A local proxy tells you what each region actually experiences.



Why it matters

A stale replica, a wrong balance.

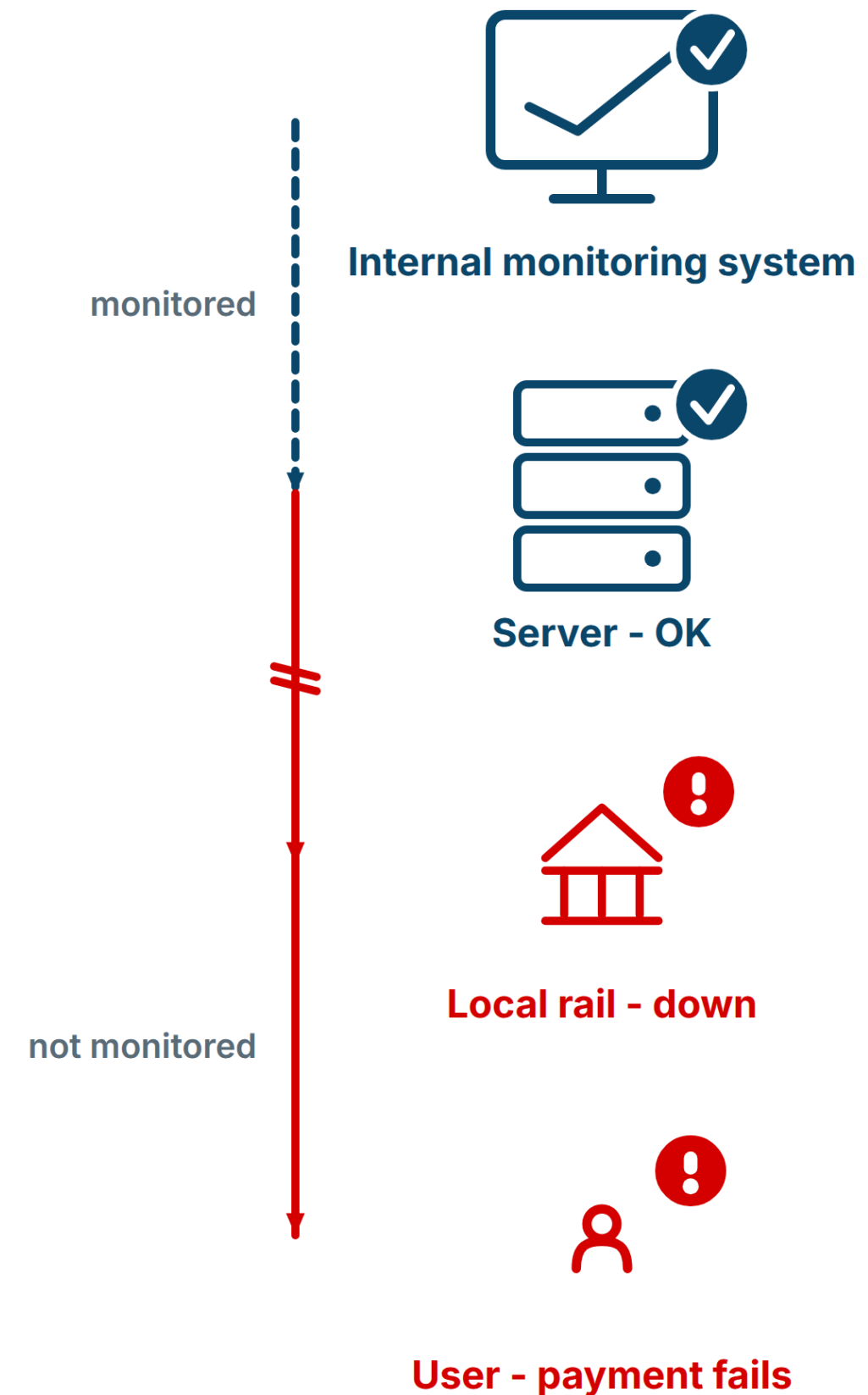
By the time anyone notices, it's not a metric anymore
- it's a reconciliation.



Why it matters

The payment fails. The dashboard stays green.

Everything the business monitors looks fine. What the user experiences doesn't.



What actually solves this?

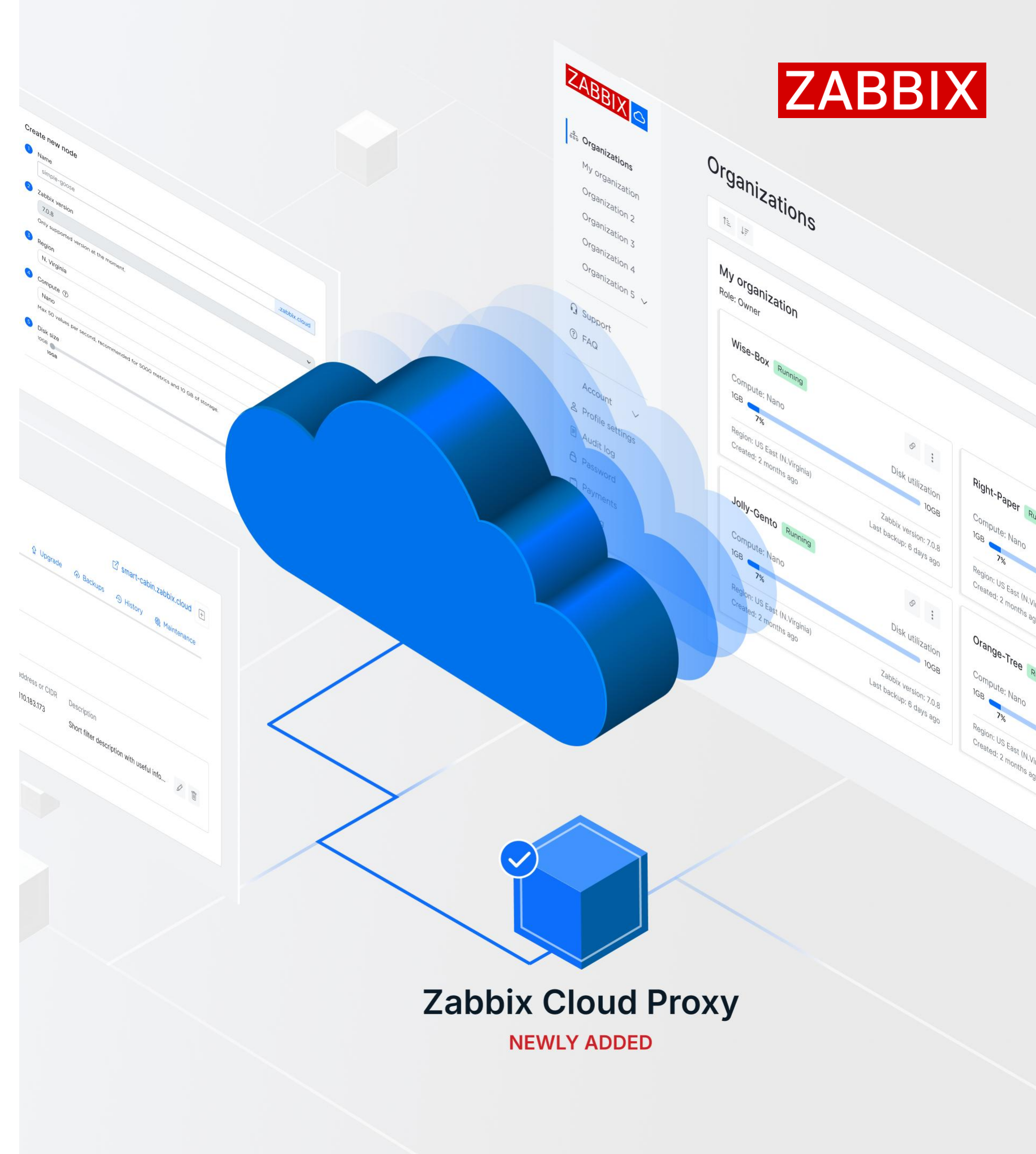
One system, built for exactly this.



What's new

Zabbix Cloud Proxy

A new feature that unlocks additional usage scenarios – built right into our SaaS service.

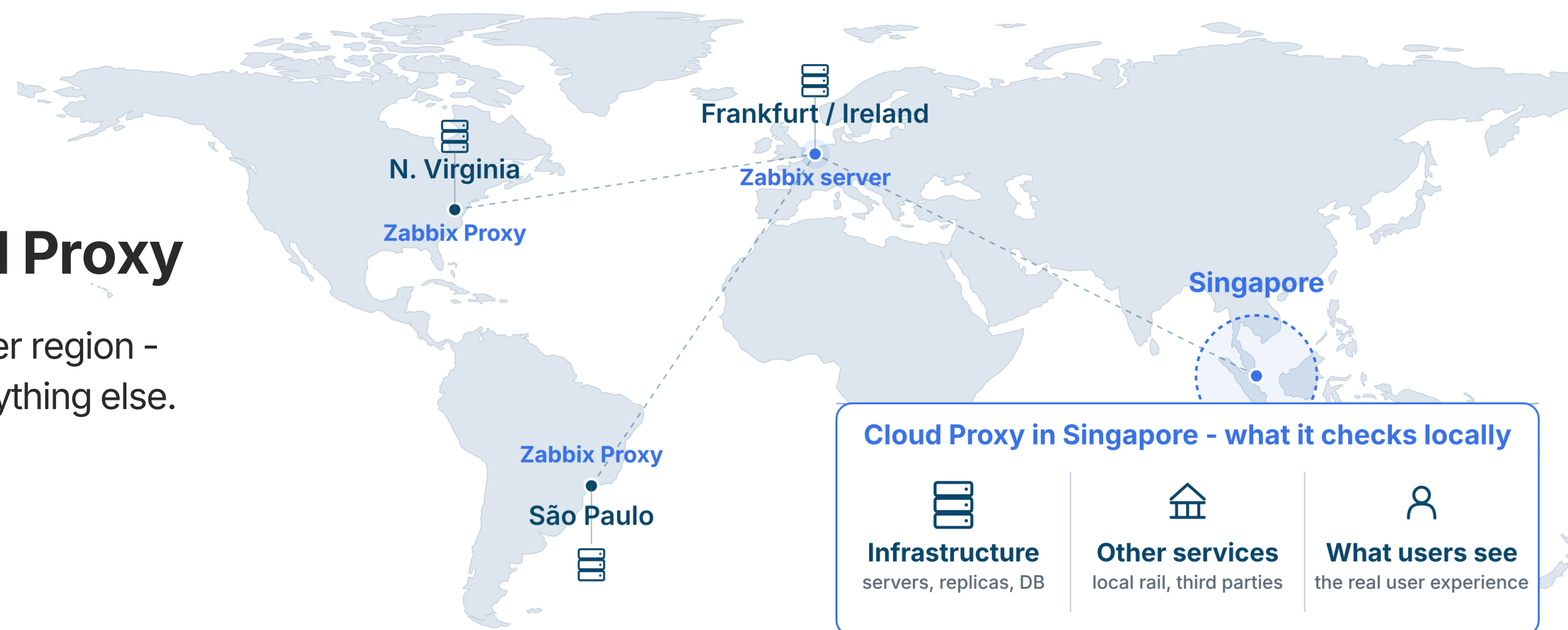


Zabbix Cloud Proxy

NEWLY ADDED

Cloud Server + Cloud Proxy

Zabbix server plus a Cloud Proxy per region -
deployed from the same UI as everything else.



Let's see it in action



What outside checks can't see

Own infrastructure: monitored everywhere



Own infra: monitored

Every region's infrastructure reports healthy - checked the usual way, from outside.

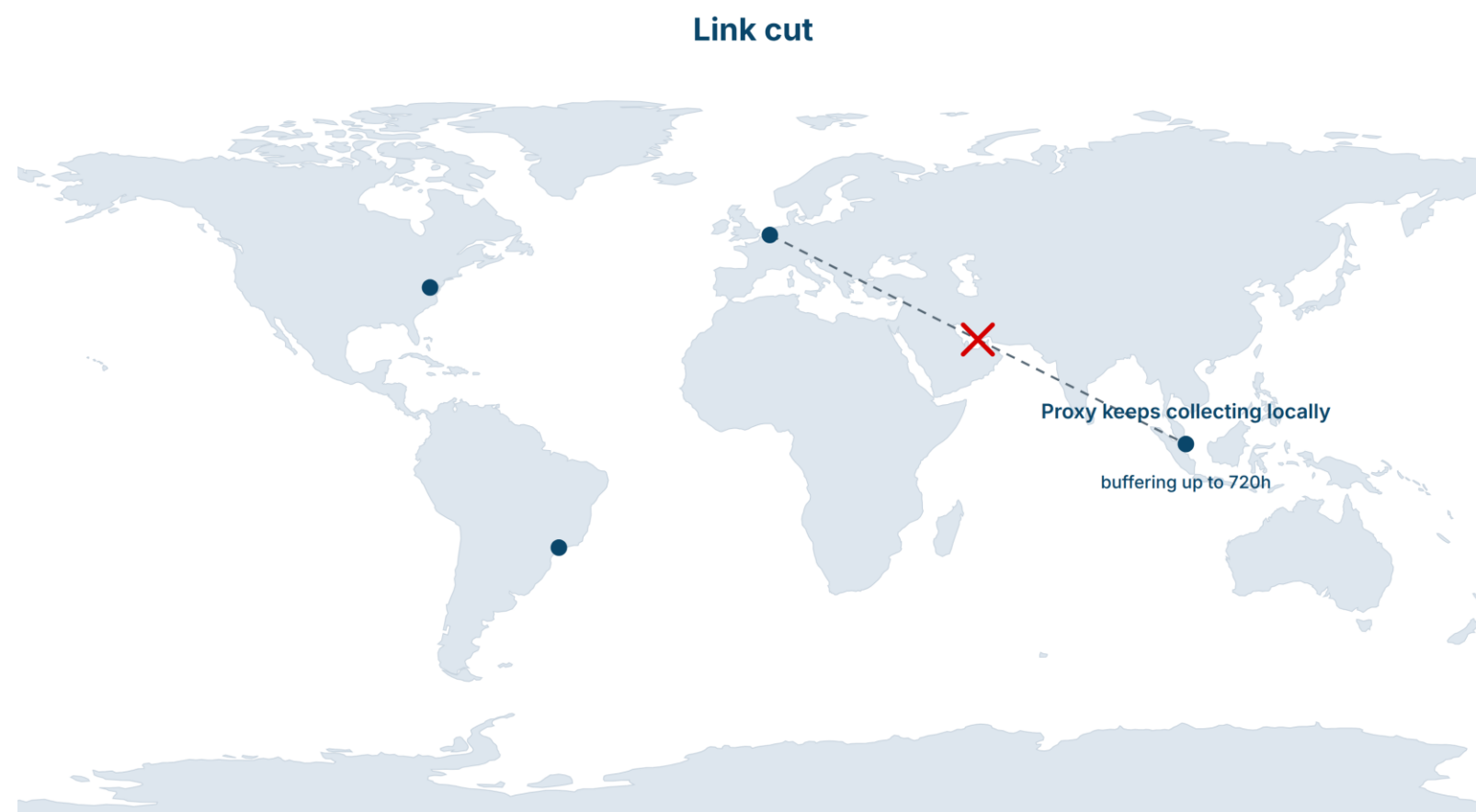
Now: checked from inside the region



Local rail: checked locally

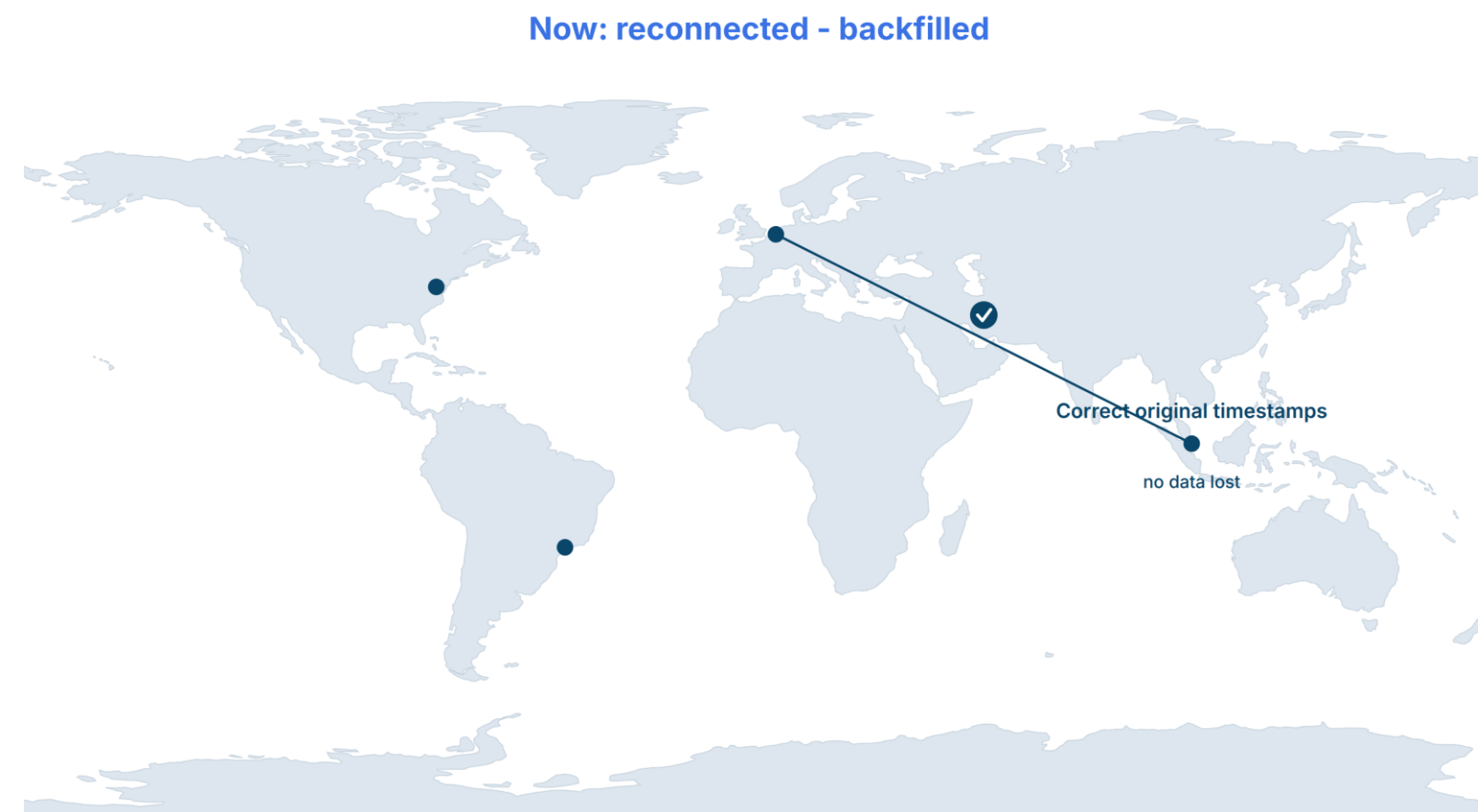
The local payment rail is only visible to a check running inside that region.

The link gets cut



Mid-outage

A synthetic probe loses the interval - the data simply never existed.

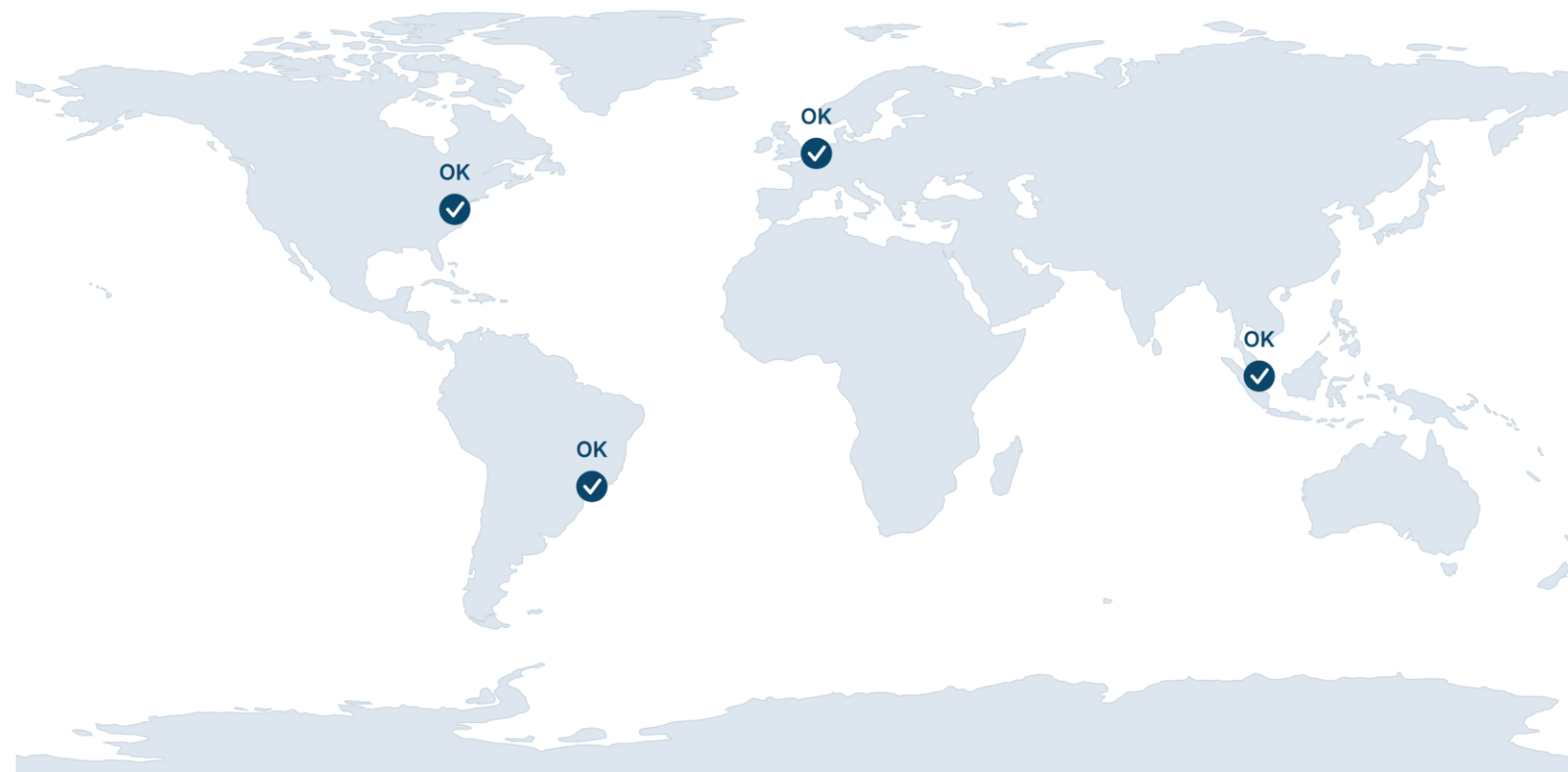


After reconnect

A Zabbix proxy keeps collecting locally and backfills with correct original timestamps.

What is actual user experience?

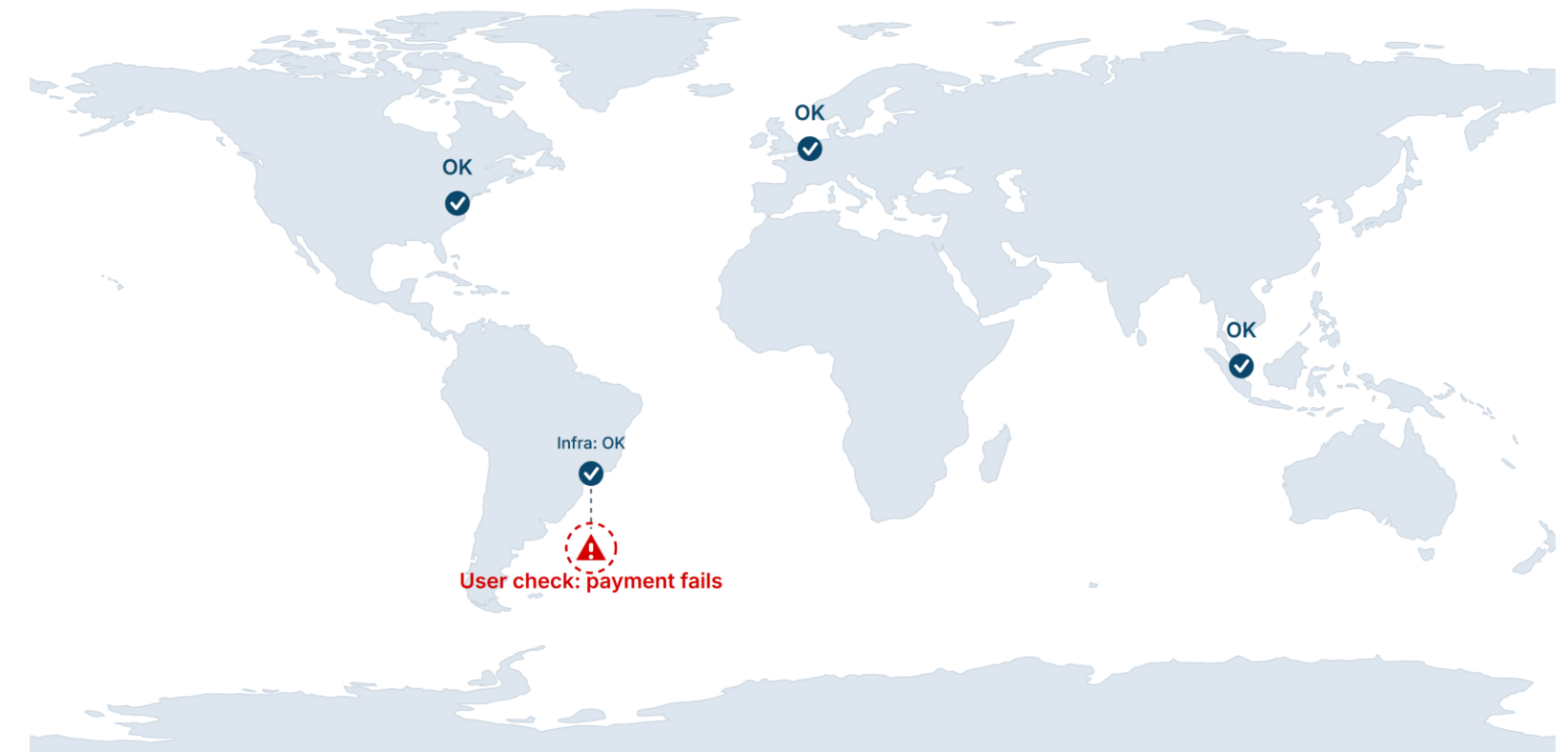
Only the infrastructure is checked



Infra checks only

Every region reports healthy. Nothing checks the local rail itself.

Now: a synthetic check as the user



Synthetic check, as the user

A synthetic transaction through the local rail catches the exact failure - the same one that stayed invisible before.

Not just fintech



E-commerce & retail

Checkout looks fine globally while one region's payment gateway is down.



Telecom & ISP

A local network outage hits one region's subscribers while the core stays healthy.



Streaming & media

The origin is healthy while a regional CDN edge quietly drops viewers.



Logistics & delivery

Each region's carrier APIs and customs systems fail in their own, different ways.

Get started

**With Zabbix Cloud your
monitoring system stays
healthy and operational**

Start free at zabbix.com/cloud



Thank you!

