

The Pivotal Moment of Edge Computing



<https://github.com/yomorun/yomo>



2021 - The raising of Edge Networks



Log In |   

Cloudflare Announces Cloudflare Pages, Brings Next Generation Website Development Platform to Businesses and Developers

New platform delivers the fastest and most scalable websites distributed on the edge



Cloudflare Pages - 2021 Sep.

Cloudflare Pages is the most secure and most scalable Jamstack platform to build and deploy your sites on the [edge](#). But *how* is Pages so fast?

It comes down to three key reasons:

- Pages is built on one of the fastest networks in the world, putting us within [50](#) [ms](#) of 95% of the world's Internet-connected population. Delivering Pages from this network is the basis of our speed.
- Cloudflare helps define and implement next generation standards, like QUIC + HTTP/3 and Early Hints, that push Pages performance to the next level.
- Pages has a killer developer experience that makes it easy to build the fastest websites on the planet.





2021 Nov. / Shopify Hydrogen + Oxygen

ING 2022 COMING 2022 COMING 2

Host directly on Shopify

Stay tuned for the upcoming Shopify-powered **global hosting solution** for Hydrogen storefronts. Oxygen is the fastest way to deploy Shopify-backed commerce experiences.



unite.shopify.com/...

EXPLORER

- OPEN EDITORS
 - App.server.jsx src
- SNOWDEVIL
 - .github
 - node_modules
 - public
 - src
 - components
 - pages
 - App.server.jsx
 - entry-client.jsx
 - entry-server.jsx
 - favicon.svg
 - index.css
 - .gitignore
 - Dockerfile
 - index.html
 - jsconfig.json
 - package.json

```
src > App.server.jsx
1 > import {
6
7   export default function DefaultRoutes({ pages, serverState,
8     fallback, }): JSX.Element
9     import DefaultRoutes
10
11   return
12     <ShopifyServerProvider>
13       <Switch>
14         <DefaultRoutes
15           pages={pages}
16           serverState={serverState}
17           fallback={<NotFound />}
18         />
19       </Switch>
20     </ShopifyServerProvider>
21   );
22
23
24
25
26
27
```

Build a set of default Hydrogen routes based on the output provided by Vite's import.meta.globEager method.

@see — <https://vitejs.dev/guide/features.html#glob-import>



implements react router
from hydrogen we get a



2021 Oct. / Vercel Edge Functions

Vercel Features ▾ Templates Integrations Customers Pricing Support Docs

EDGE FUNCTIONS (BETA)

Fearlessly Dynamic

Edge Functions give you the benefits of static with the power of dynamic. Now you can personalize and experiment without sacrificing speed or performance.

[Get Started](#) [Read Docs](#)

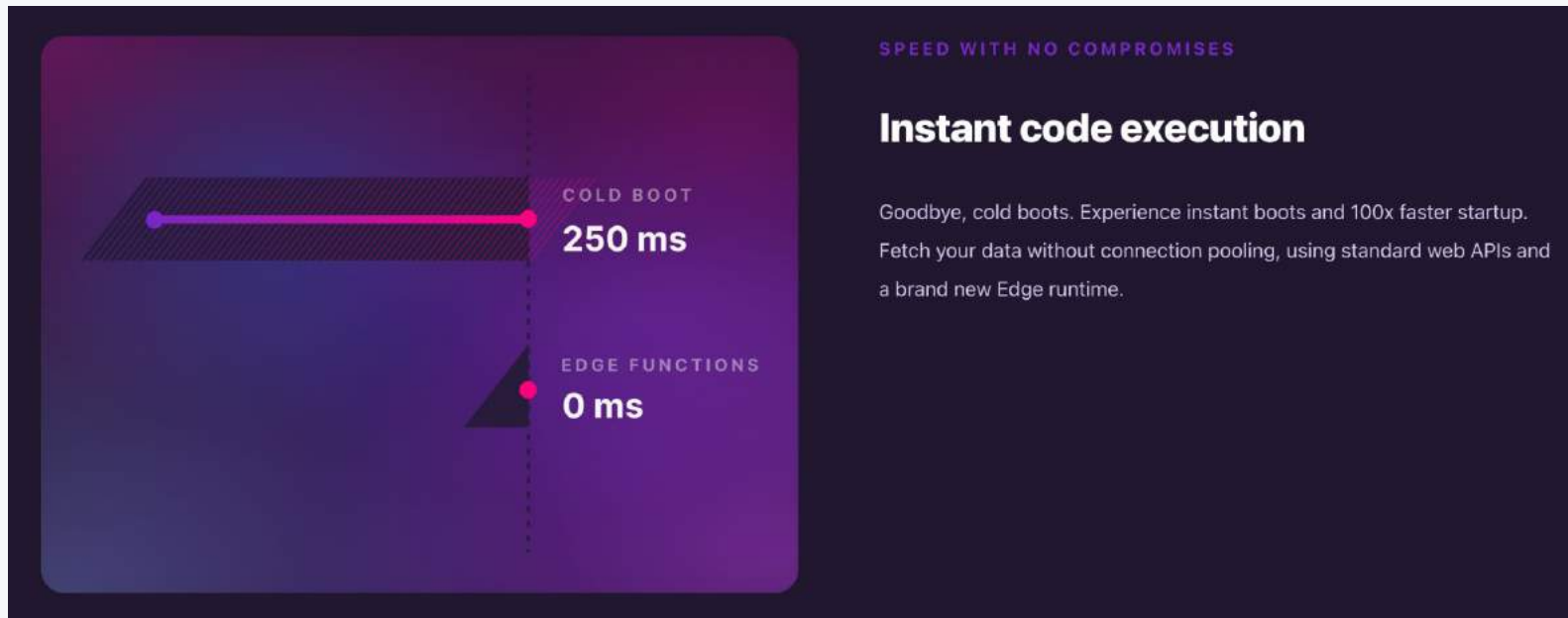
```
Geolocation Edge Function | Next.js
```

```
1 // pages/_middleware.js
2
3 export default function middleware (req, ev) {
4   console.log('Edit and run at the edge!')
5
6   return new Response({
7     ip: req.ip,
8     geo: req.geo, // this will spin the globe!
9     ua: req.ua
10  })
11 }
```

[▶ Run](#)

Incheon, KR

2021 Oct. / Vercel Edge Functions



SPEED WITH NO COMPROMISES

Instant code execution

Goodbye, cold boots. Experience instant boots and 100x faster startup.

Fetch your data without connection pooling, using standard web APIs and a brand new Edge runtime.



Remote collaboration requirements growth

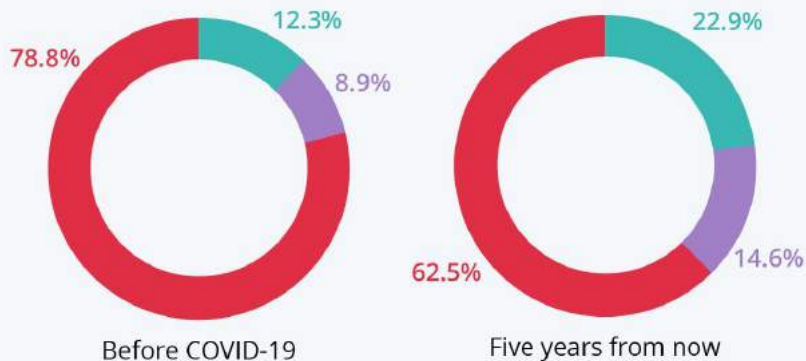


~100% Growth of Remoting

Remote Work Could Double Permanently

Percentage of U.S. work teams/departments that plan to work remotely in five years, compared to pre-pandemic

● Fully remote ● Partially remote ● Not remote



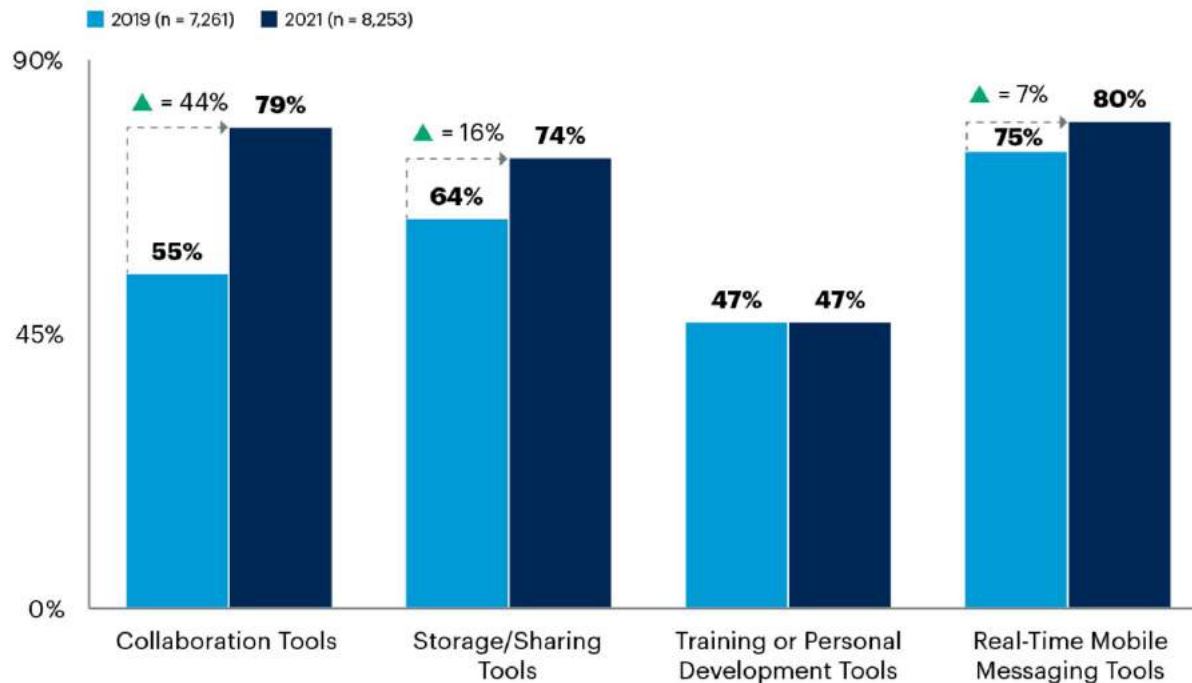
Survey conducted between Oct. 21-Nov.7 of over 1,000 U.S. hiring managers
Source: Upwork



Rethinking of Collaboration Infrastructure



Figure 1: Changes in Digital Workplace Technology Use, 2019-2021
(Percentage of Respondents)



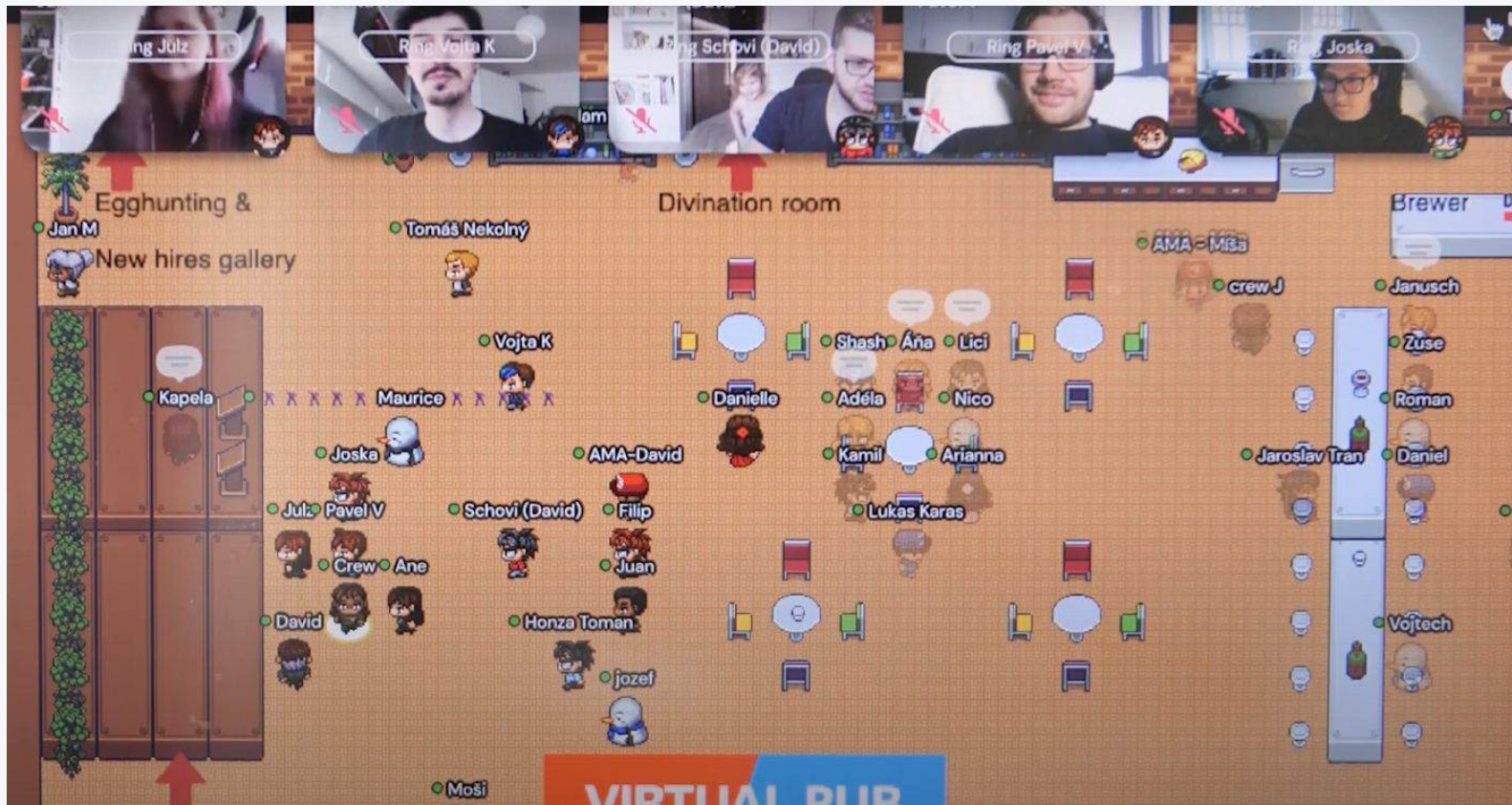
2021 Aug. / Figma Cursor Chat



A screenshot of the Figma Cursor Chat interface. At the top, there is a dark header bar with a green 'Join' button, a 'Share' button, and a 100% zoom level. Below the header, the main workspace is a light gray area. On the left, there are two chat bubbles: a pink one from 'Daniel Woodling' and a yellow one from 'Sophie Kurihara'. On the right, there is a design tool panel with tabs for 'Design', 'Prototype', and 'Inspect'. The 'Design' tab is active, showing various tool icons and a 'Frame' panel with dimensions (X: 3200, Y: 184, W: 174, H: 64) and a 'Constraints' panel.

A screenshot of the FigJam website. The header includes navigation links for 'Products', 'Enterprise', 'Pricing', 'Community', and 'Company'. The main content area features the text 'FigJam Beta' and 'An online whiteboard for teams to ideate and brainstorm together.' The text 'ideate' and 'brainstorm' are highlighted in purple and yellow respectively. There are several callouts: a yellow one saying 'Does this flow look right?', a purple one saying 'LOVE IT.', and a red one saying 'Great idea!'. A black button at the bottom says 'Try FigJam for free'.

Metaverse Workplace





Metaverse Workplace

oVice

右クリック
議を開始

Ovice Ueno
Ovice シゲカミ
Ovice ジョン

スタッフ不在、または他のお客様がいらっしゃる場合、お手数ですが以下のカレンダーよりご予約をお願いいたします。
Staff s.shigekami
Staff h.ueno
※ご都合に合うスタッフをお選びくださいませ。

本日はOviceの説明会にお越しくださいませ、誠にありがとうございます。
説明会は11:00より開始いたします。
空き時間に、ぜひ以下アンケートにご協力くださいませ。

Roblox Concert





Throughput v.s. Latency

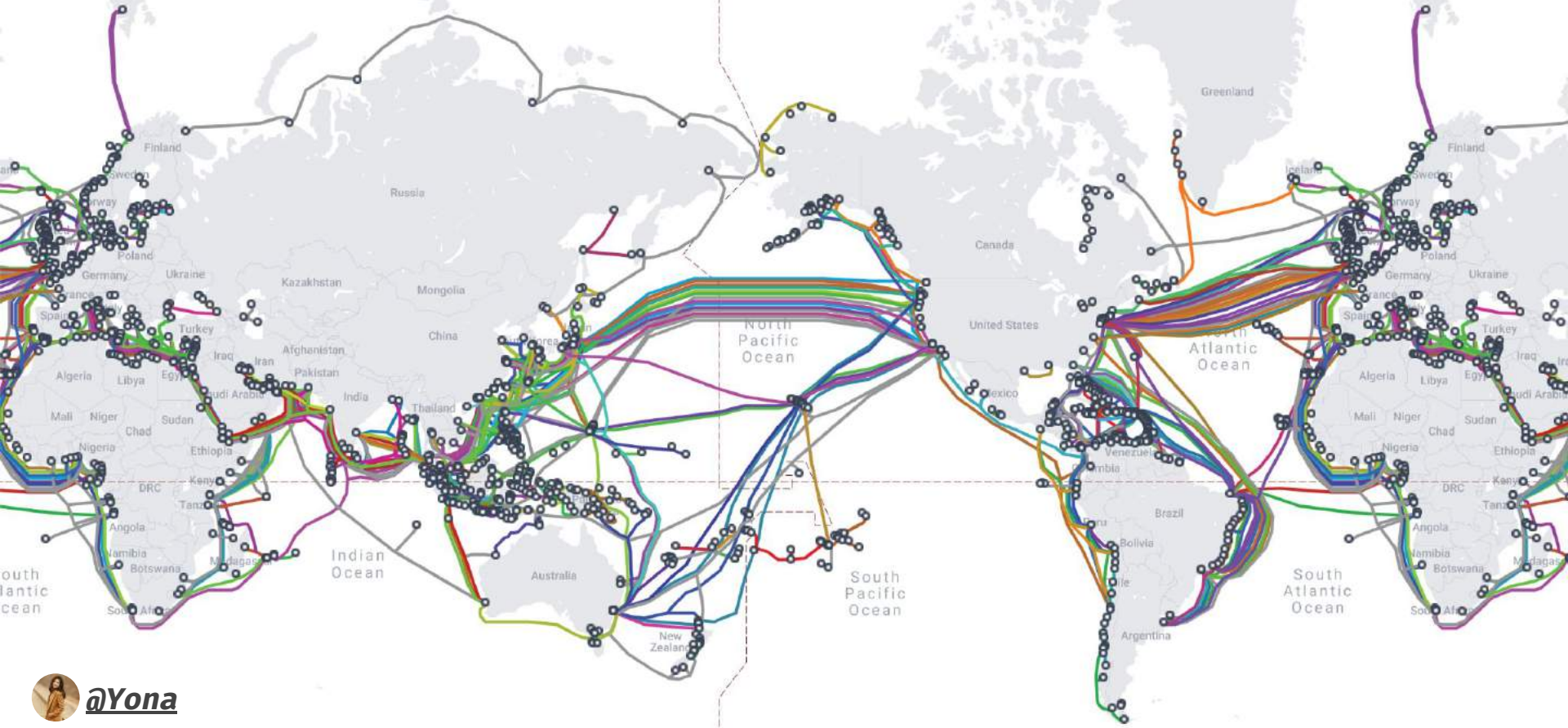


Public Cloud is far away from end user

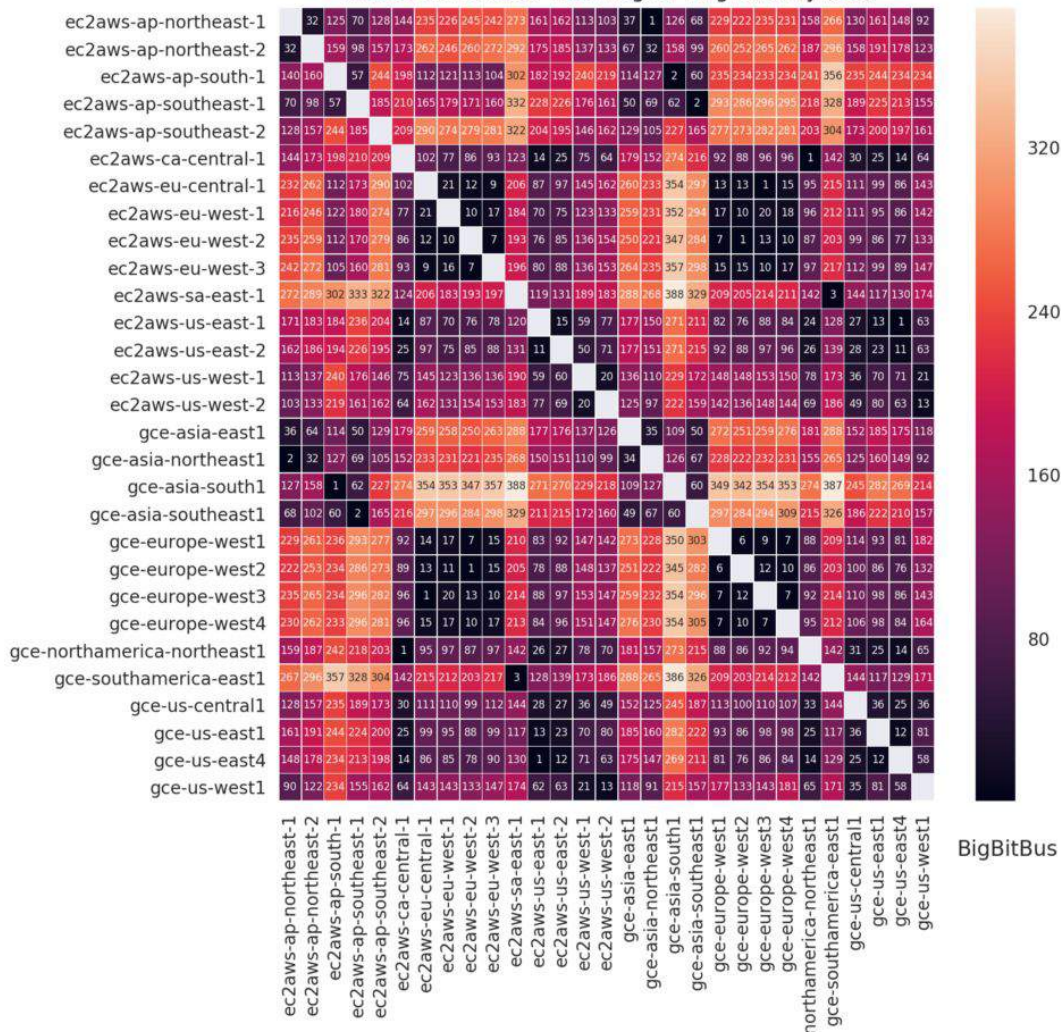




Internet is interconnected networks

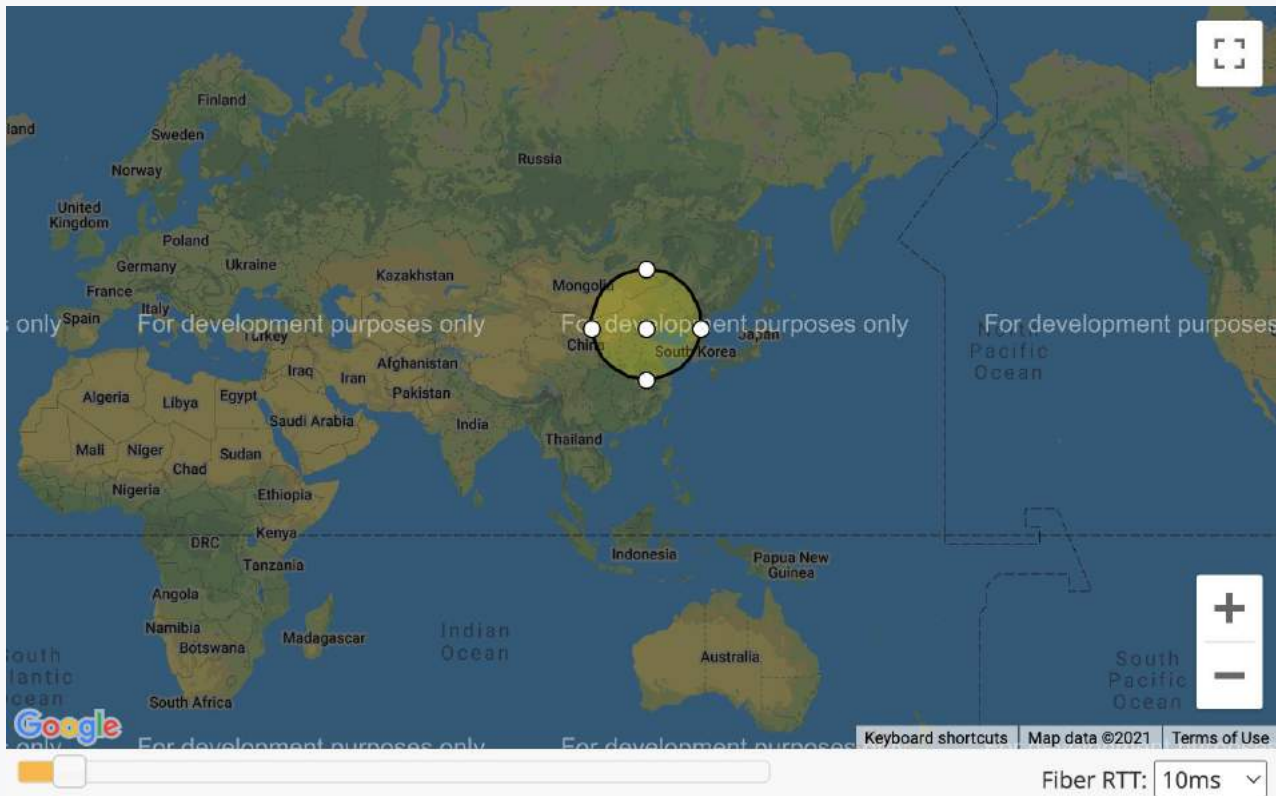


AWS & GCE Clouds' Inter-region Ping Latency (ms)



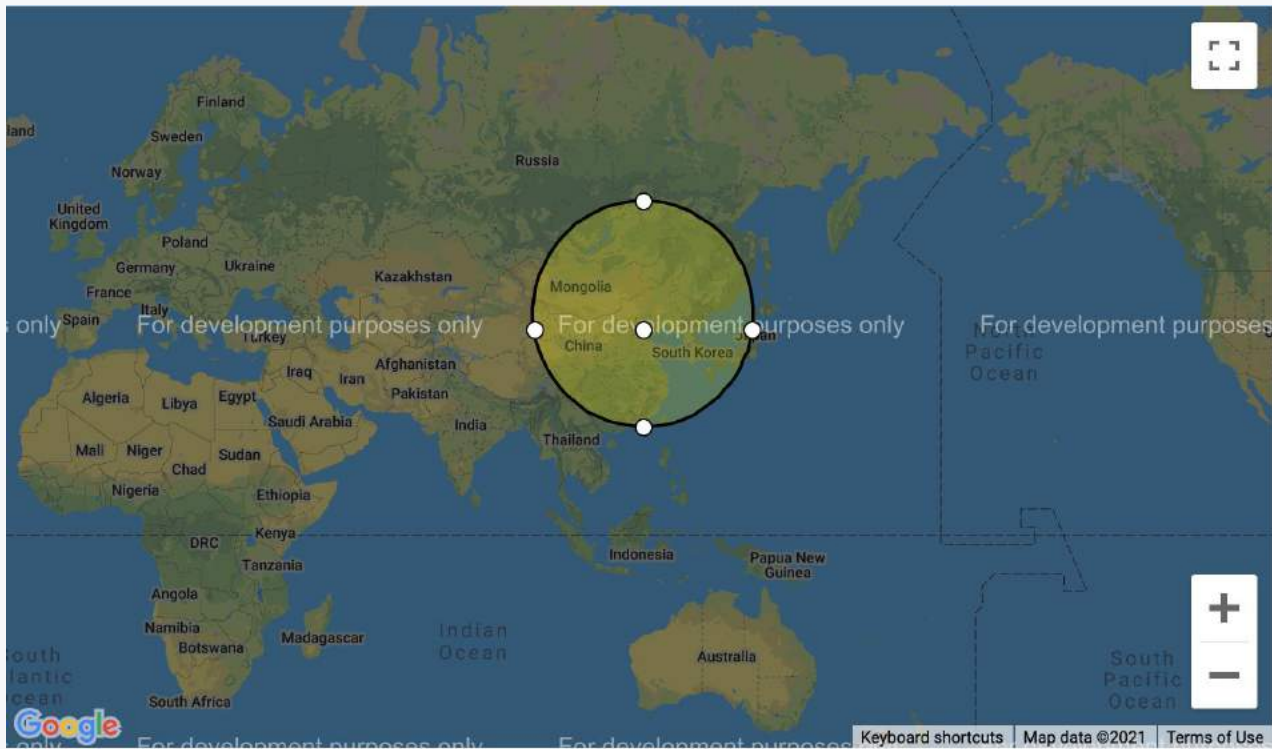


Network Speed <10ms



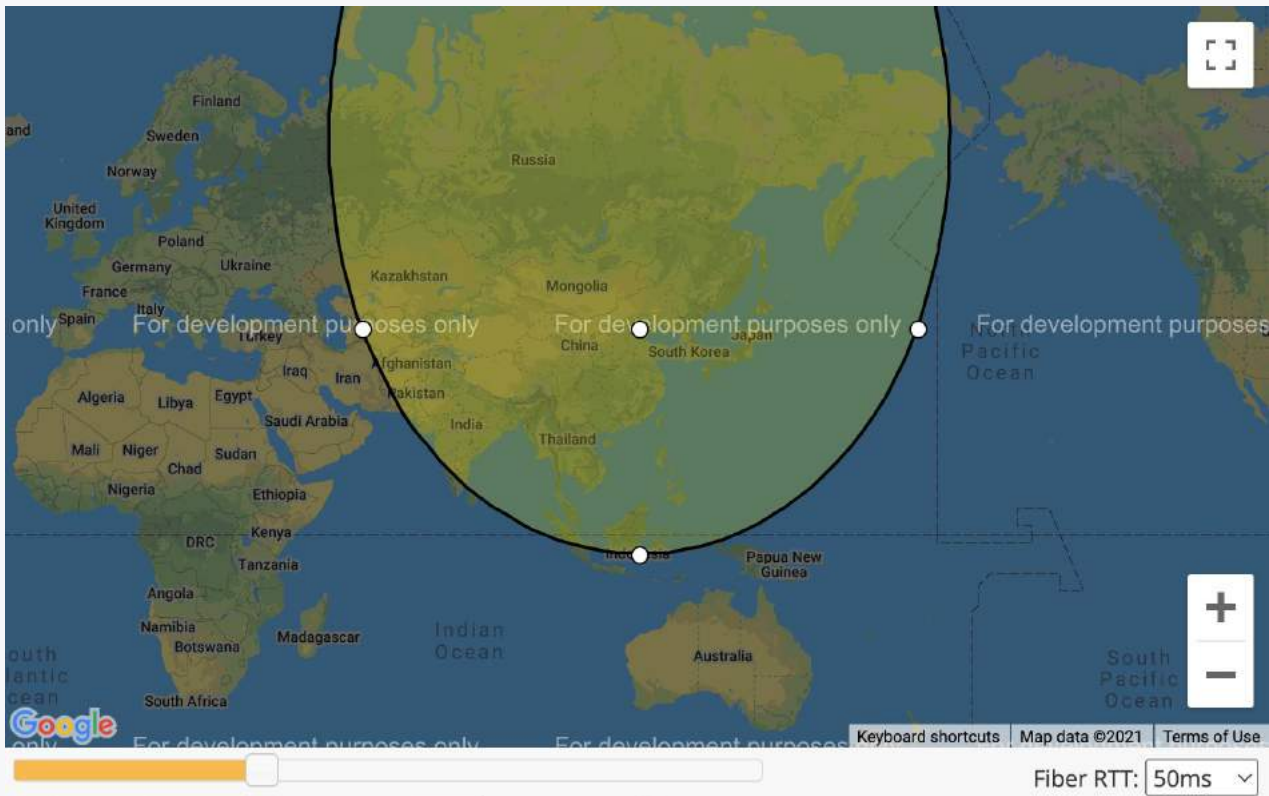


Network Speed <20ms





Network Speed <50ms





Cloud == *Distributed System in Single Region*





Kelsey Hightower

Principal Engineer at Google

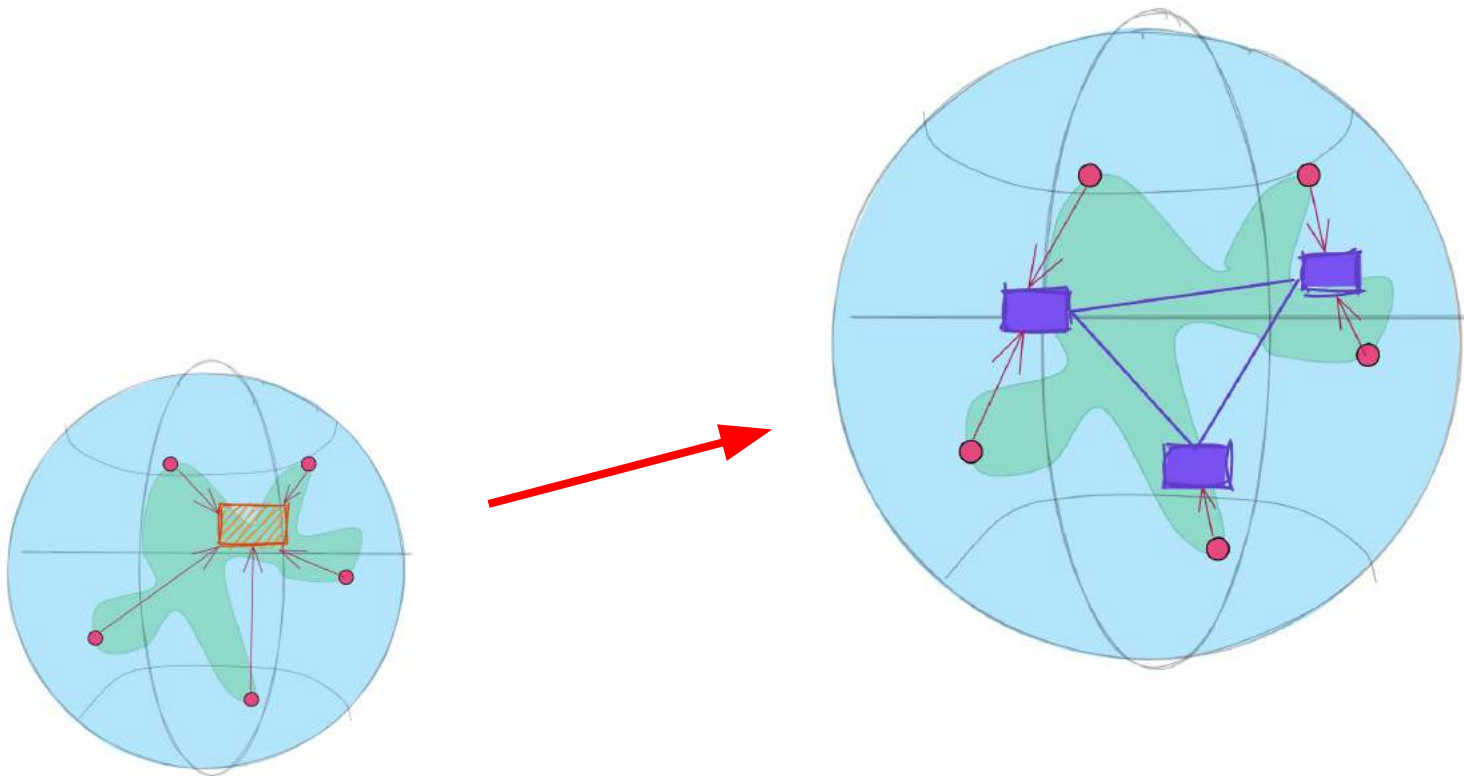


Lee Robison

Head of DevRel at Vercel

you know in the cloud we tend to think about regions and zones so ideally you get as close

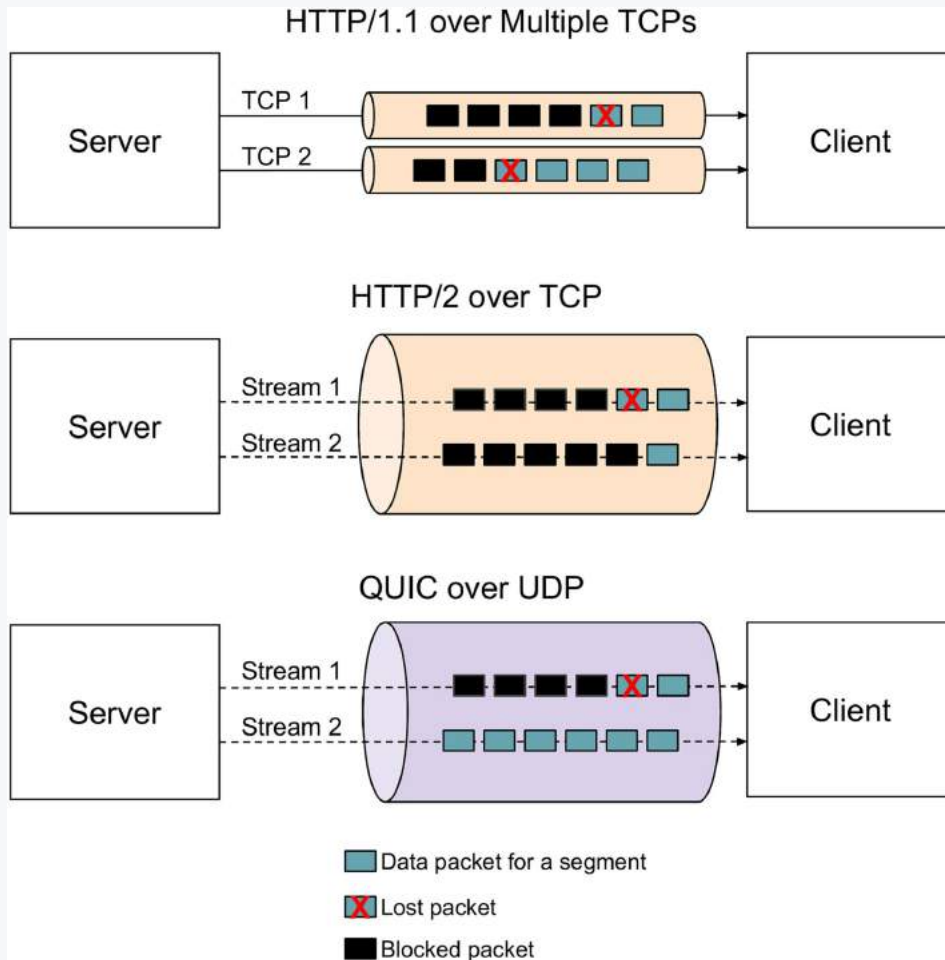
Rethinking: Geo-distributed System





Technologies are evolving

TCP v.s. QUIC

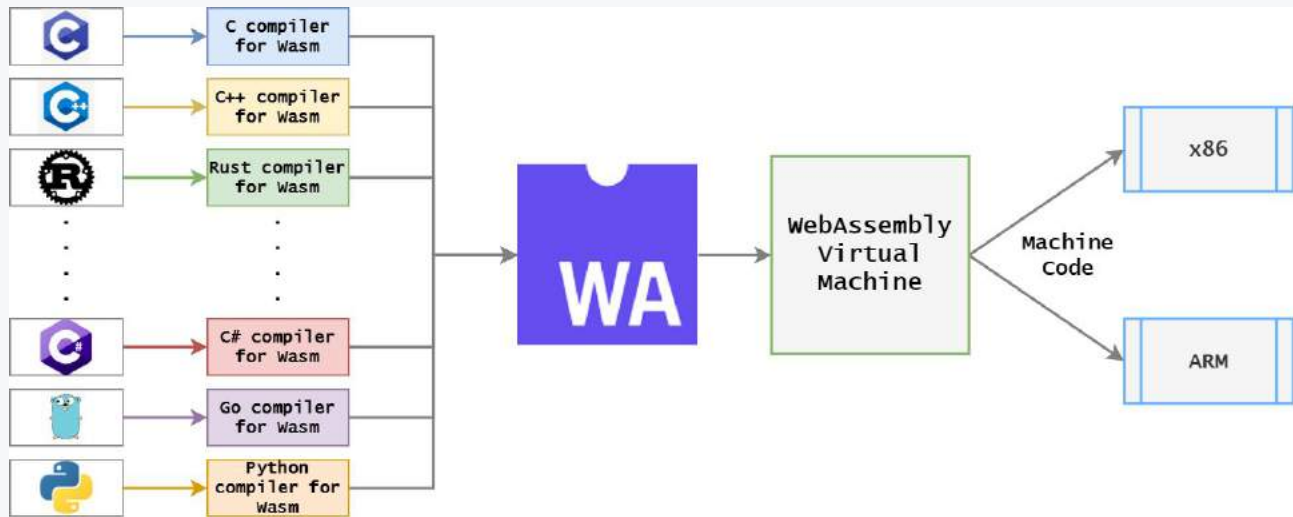


QUIC & HTTP/3



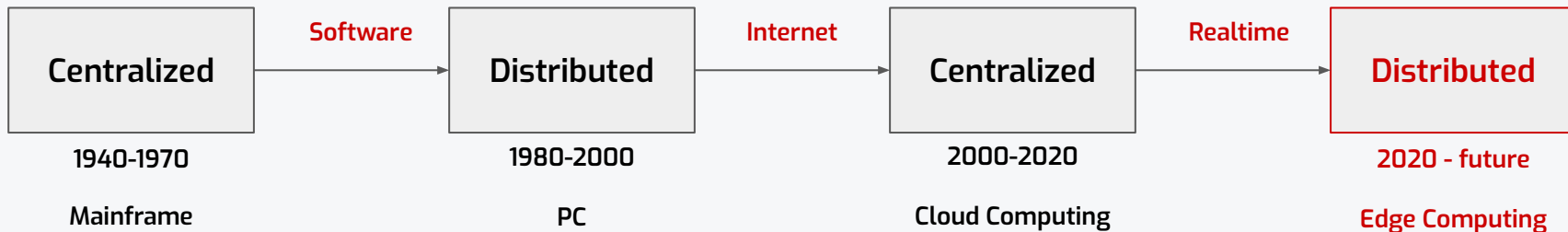


WebAssembly





Internet is changing



*“More than **50 percent** of enterprise generated data will be created and processed outside the data center by 2022”*

--- Gartner

- IoT
- Metaverse
- Cloud Gaming
- Autonomous Vehicle
- VR/AR
- Robot
-



Key metrics

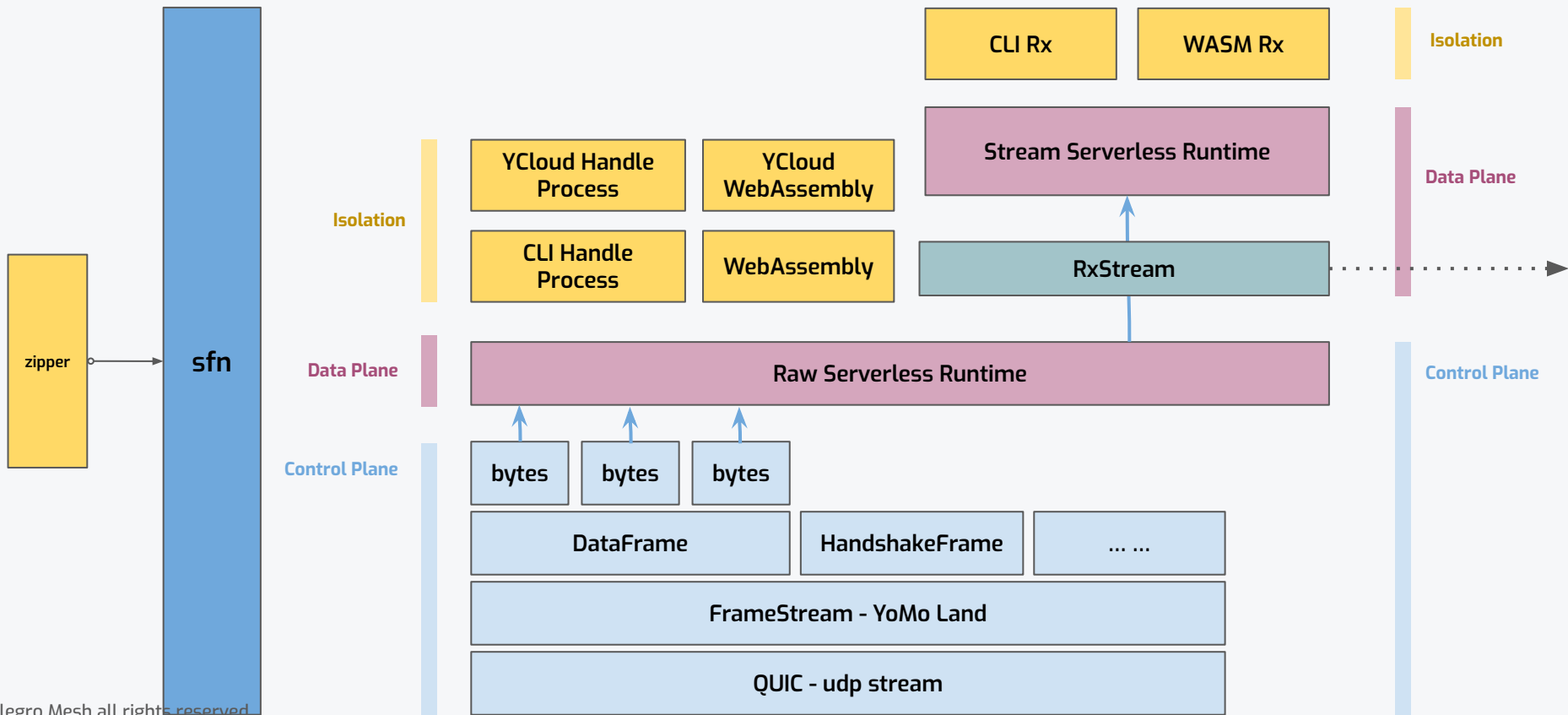
- Latency sensitive
- Security first
- Processing economics

A chimpanzee is shown in profile, using a long, thin stick as a tool to reach into a hole in a grey, textured rock. The chimpanzee's hand is visible, gripping the stick. The background is a natural, outdoor setting with some green foliage.

Tooling + Open-Sourcing



Developer Experiences - Serverless Streaming Function



 *Thanks*

