

FLORIAN
LENZ

Building Ultra-Fast, Globally Distributed Apps with Serverless at the Edge

Join at menti.com | use code

6933 3427



FLORIAN
LENZ



Firefighter Triathlete
GYM **Azure Consultant**
Freelancer YouTuber Speaker
My Coding Zone - Dev Podcast



/in/florianserverless/



@FlorianLenz



www.florian-lenz.net

ESN Designer Whey Protein

Die Nr. 1 unter den Proteinpulvern. Cremig lecker wie ein Milchshake.

ESN Isoclear Whey Isolate

Klarer erfrischender Protein-Drink. In vielen leckeren Sorten.

Designer Bar

Unser beliebtester Proteinriegel 100% geller Geschmack

ESN Super Omega-3

Hochdosierte Kapseln. Made in Germany.



ESN

<https://www.esn.com>

ESN Supplements | Für deine maximale Performance

Sign up und gewinne einen Gutschein im Wert von 250€! Heute ist dein Glückstag! Melde dich für unseren Newsletter an und sichere dir exklusive Rabatte, coole ...

Proteinpulver

Muskel-Support: Proteine sind für den Aufbau und Erhalt deiner ...

ESN-Week

ESN WEEK. Code: ... ESN WEEK: Spare bis zu 50% auf unser ...

Food & Snacks

Food & Snacks – Protein Snacks für jeden Tag. Abs are made in ...

Alle ESN Produkte

Sign up und gewinne einen Gutschein im Wert von 250 ...

Outlet

4,17 €/100g

28,43 € mit C...

Von Google

5,50 €/100g

39,92 € mit C...

Von Google

1,32 €/100g

7,92 € mit Code

Von Google



ESN | Designer Bar...

26,90 €

esn.com

+4,90 € Versa...

2,24 €/1Stück

20,18 € mit C...

Von Google



ESN



🚚 Lieferung: 4,90 €

Alle Bestellungen

🔄 Kostenlose Rücksendungen

14 Tage



Most **people will leave** your site
if it takes **more than 3 seconds**
to load.



~300ms







~20ms



esn - Google Suche

google.com/search?q=esn&rlz=1C5CHFA_enDE1026DE1026&eq=esn&gs_lcrp=EgZjaHJvbWUqBggAEEUYOziGCAAQRrg7MgclARAAGI8CMgclAhaAGI8CMgYIAxBFGDwyBggEEUYPDIGCAUQRrg80gEHND43ajBqMagCALACAA&sourceid=chrome&ie=UTF-8

Googleesn

ESN Designer Whey Protein

Die Nr. 1 unter den Proteinpulvern. Cremig lecker wie ein Milchshake.

ESN Isoclear Whey Isolate

Klarer erfrischender Protein-Drink. In vielen leckeren Sorten.

Designer Bar

Unser beliebtester Proteinriegel 100% geiler Geschmack

ESN Super Omega-3

Hochdosierte Kapseln. Made in Germany.

ESN

https://www.esn.com

ESN Supplements | Für deine maximale Performance

Sign up und gewinne einen Gutschein im Wert von 250€! Heute ist dein Glückstag! Melde dich für unseren Newsletter an und sichere dir exklusive Rabatte, coole ...

Proteinpulver

Muskel-Support: Proteine sind für den Aufbau und Erhalt deiner ...

ESN-Week

ESN WEEK. Code: ... ESN WEEK: Spare bis zu 50% auf unser ...

Food & Snacks

Food & Snacks – Protein Snacks für jeden Tag. Abs are made in ...

Alle ESN Produkte

Sign up und gewinne einen Gutschein im Wert von 250 ...


Outlet

4,17 €/100g
28,43 € mit C...
Von Google

5,50 €/100g
39,92 € mit C...
Von Google

1,32 €/100g
7,92 € mit Code
Von Google




25% RABATT



ESN | Designer Bar...
26,90 €
esn.com
+4,90 € Versa...
2,24 €/1Stück
20,18 € mit C...
Von Google

ESN

ESN



Lieferung: 4,90 €
Alle Bestellungen

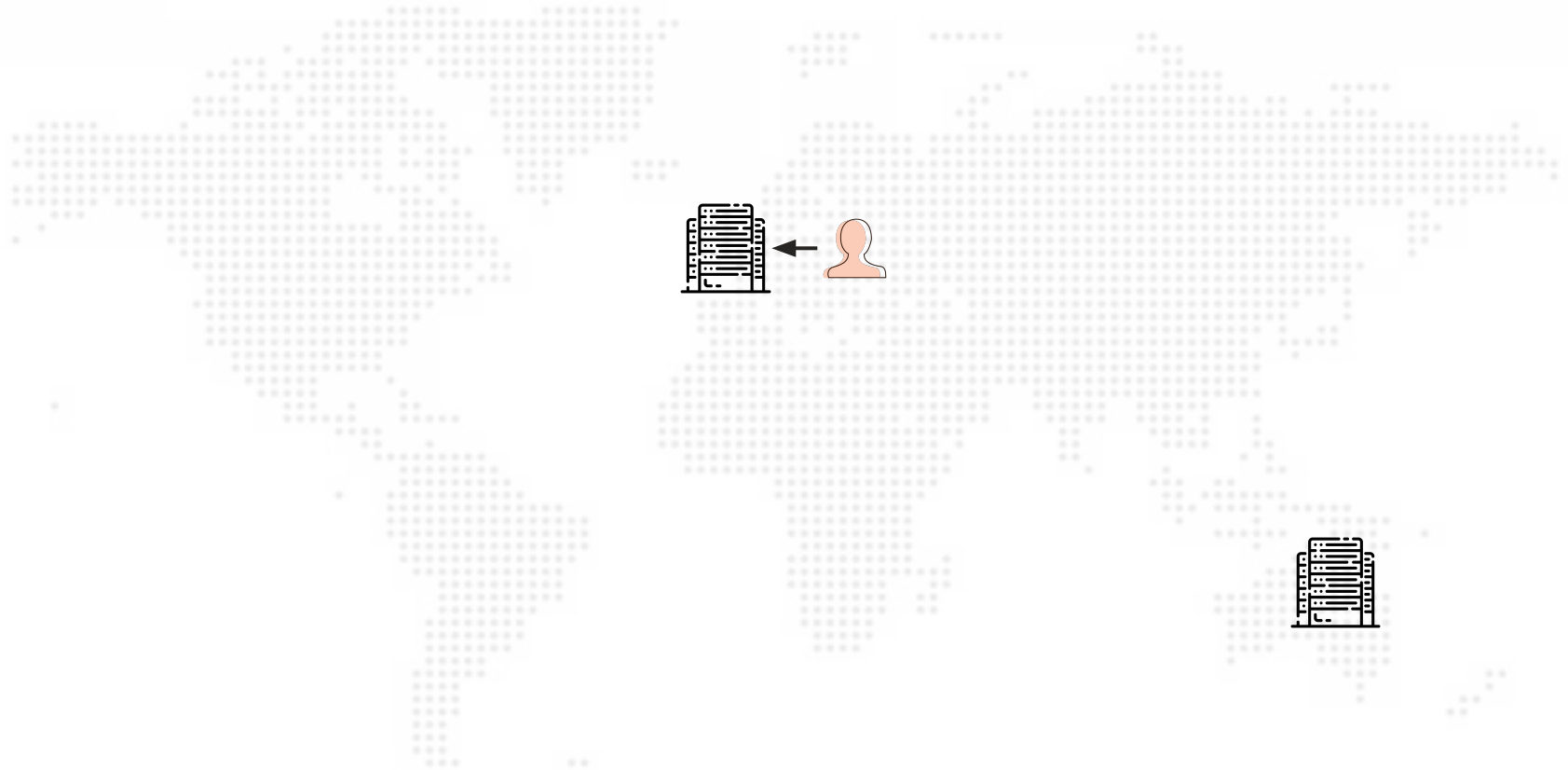
Kostenlose Rücksendungen

14 Tage



e-commerce sites that load
within **1 second** convert **2.5x**
more





Example Shop

Date of Purchase: 2.2.2025 Total Amount: \$35.00

Purchase Details

| Product | Quantity | Unit Price | Total Price |
|-----------|----------|------------|-------------|
| Product A | 2 | \$10.00 | \$20.00 |
| Product B | 1 | \$15.00 | \$15.00 |

VAT Number: DE123456789

Address: Teststr. 123, 12345 Berlin

Contact: info@test.shop

FB

IG

TW

© 2025 Global eCommerce Store. All rights reserved.

```
[Function(nameof(GetReceipt))]
```

1 usage Florian Lenz *

```
public IActionResult Run(
```

```
[HttpTrigger(AuthorizationLevel.Anonymous,  
    params methods: nameof(HttpMethod.Get),  
    Route = "receipts/{ReceiptId}")]
```

```
HttpRequest req,
```

```
[CosmosDBInput( databaseName: "receipts", containerName: "receipts",  
    Connection = "CosmosDBConnection", Id = "{ReceiptId}",  
    PartitionKey = "{ReceiptId}", PreferredLocations = "%Location%")]  
Receipt? receipt)
```

```
{
```

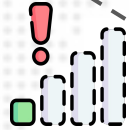
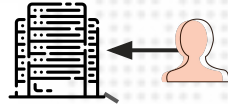
```
if (receipt == null)  
{  
    return new NotFoundResult();  
}
```

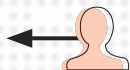
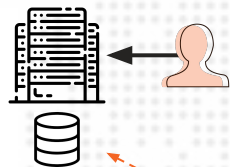
```
return new OkObjectResult(receipt);
```

```
}
```



It **doesn't matter** how **CDN**y
your application is if everything
important is coming from a
single origin server.

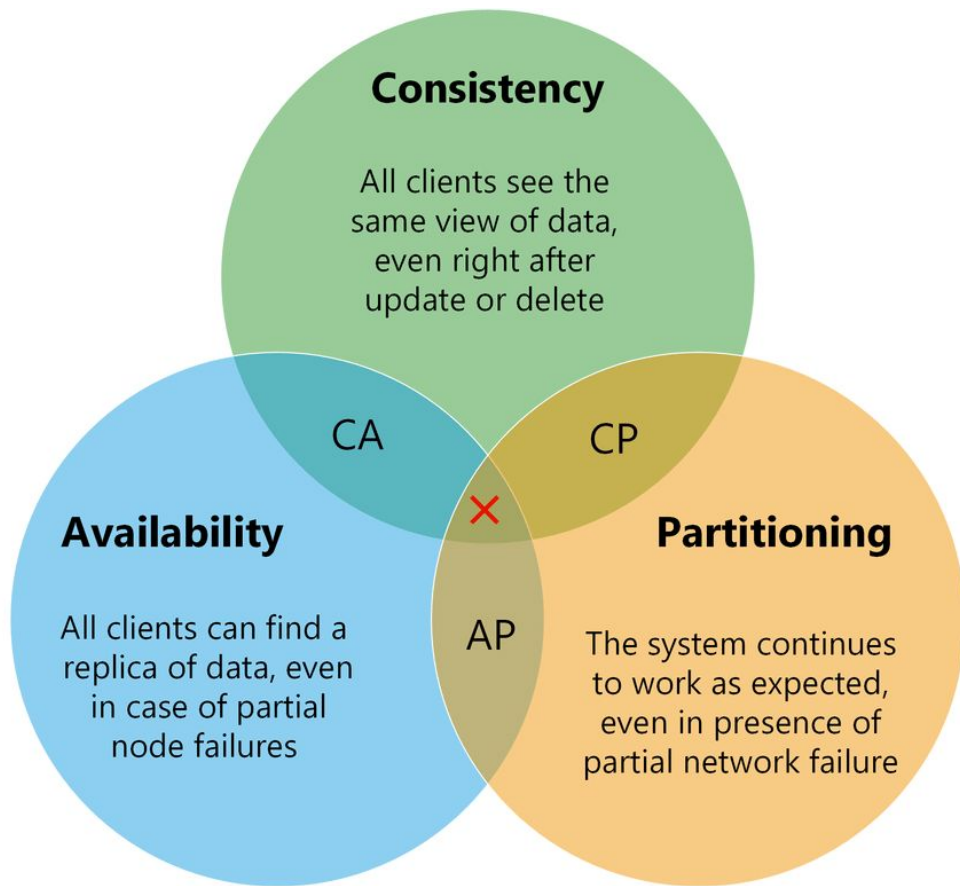






Amazon.com Goes Down, Loses **\$66,240 Per Minute**

| Availability % | Downtime per year | Downtime per month | Downtime per week |
|------------------|----------------------|---------------------|----------------------|
| 90% (one 9) | 36.5 <i>days</i> | 72 <i>hours</i> | 16.8 <i>hours</i> |
| 99% (two 9) | 3.65 <i>days</i> | 7.2 <i>hours</i> | 1.68 <i>hours</i> |
| 99.9% (three 9) | 8.76 <i>hours</i> | 43.8 <i>minutes</i> | 10.1 <i>minutes</i> |
| 99.99% (four 9) | 52.56 <i>minutes</i> | 4.32 <i>minutes</i> | 1.01 <i>minutes</i> |
| 99.999% (five 9) | 5.26 <i>minutes</i> | 25.9 <i>seconds</i> | 6.05 <i>seconds</i> |
| 99.9999% (six 9) | 31.5 <i>seconds</i> | 2.59 <i>seconds</i> | 0.605 <i>seconds</i> |



Strong

Bounded Staleness

Session

Consistent Prefix

Eventual

Stronger Consistency

Weaker Consistency

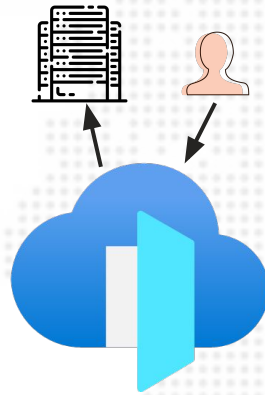
Higher availability, lower latency, higher throughput



my-app-eu.azurewebsites.net



my-app-australia.azurewebsites.net

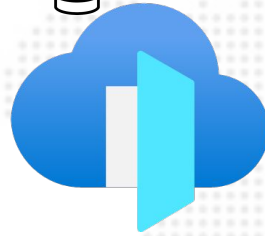


Azure Front Door
(CDN)
my-app.azurefd.net



Azure Front Door
(CDN)
my-app.azurefd.net





Azure Front Door
(CDN)
my-app.azurefd.net



“Edge Computing”

S1 Standard

1 Core

1.75 GB RAM



50 GB
Storage



Custom domains / SSL
SNI Incl & IP SSL Support



Up to 10 instance(s)
Auto scale



Daily
Backup



5 slots
Web app staging



Traffic Manager
Geo availability

74,40

USD/MONTH (ESTIMATED)

S2 Standard

2 Core

3.5 GB RAM



50 GB
Storage



Custom domains / SSL
SNI Incl & IP SSL Support



Up to 10 instance(s)
Auto scale



Daily
Backup



5 slots
Web app staging



Traffic Manager
Geo availability

148,80

USD/MONTH (ESTIMATED)

S3 Standard

4 Core

7 GB RAM



50 GB
Storage



Custom domains / SSL
SNI Incl & IP SSL Support



Up to 10 instance(s)
Auto scale



Daily
Backup



5 slots
Web app staging



Traffic Manager
Geo availability

297,60

USD/MONTH (ESTIMATED)



\$74.40



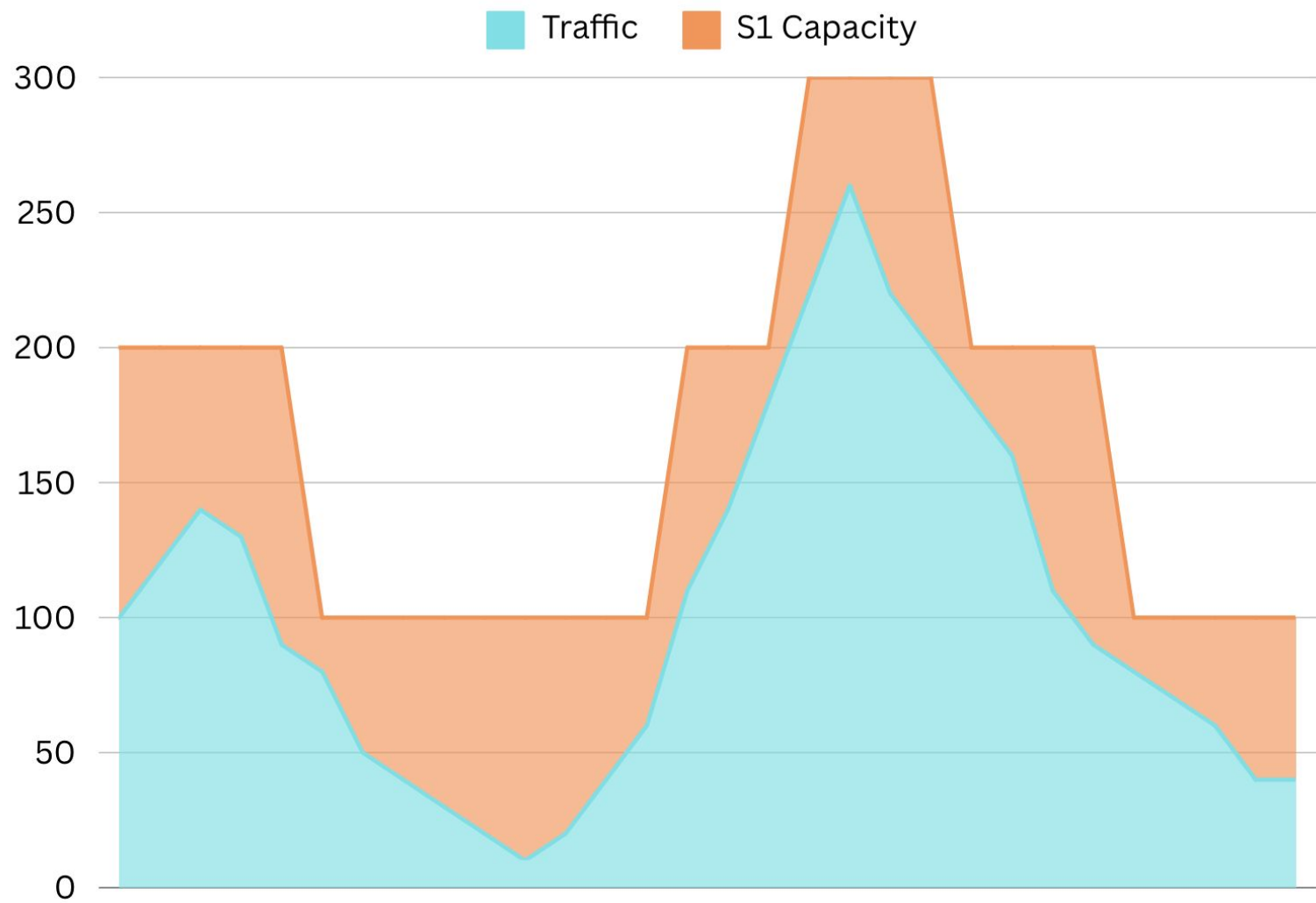
\$74.40



\$74.40



\$74.40





\$74.40



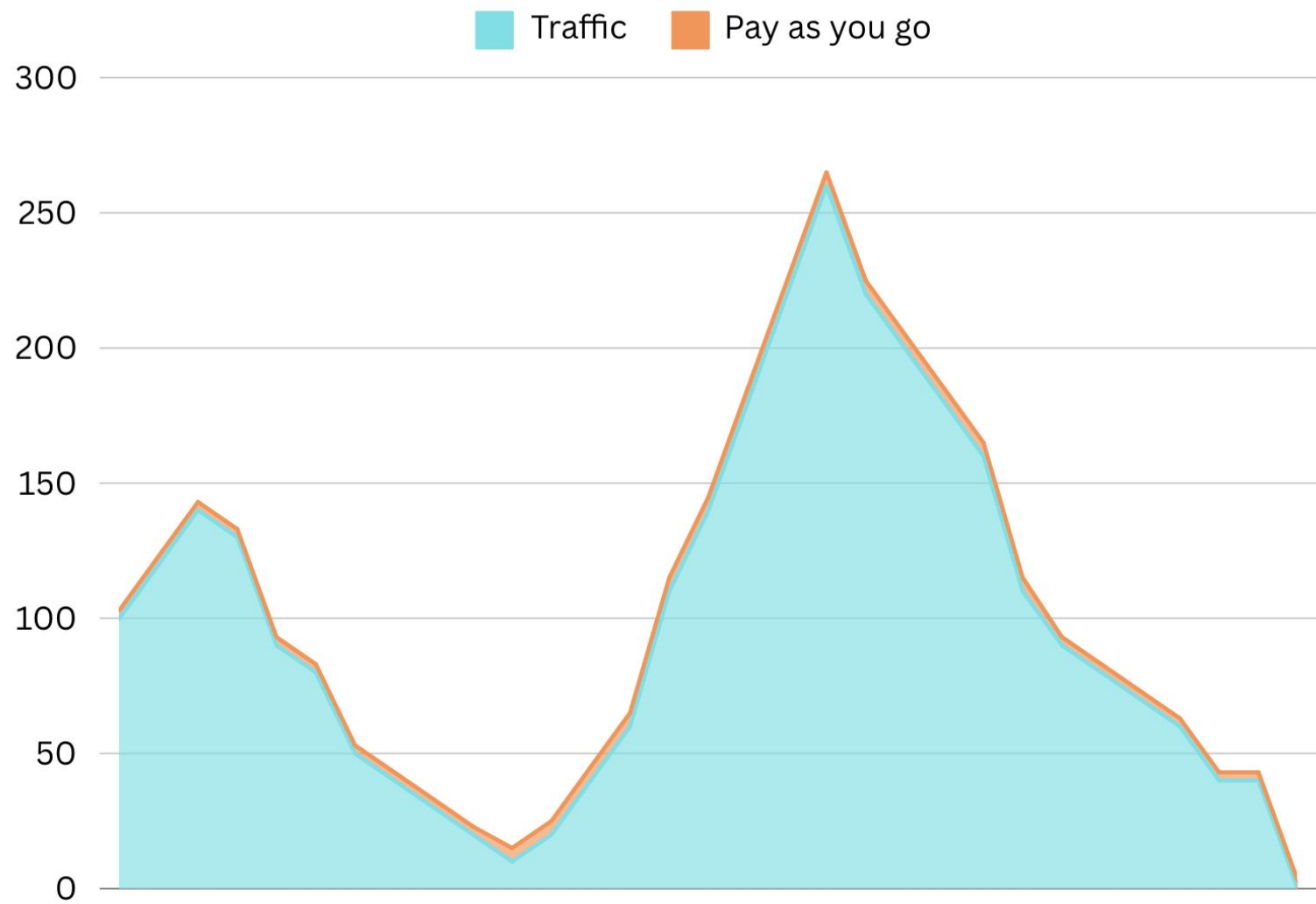
\$74.40



\$74.40



\$74.40



\$104.00



\$32.00



\$44.00

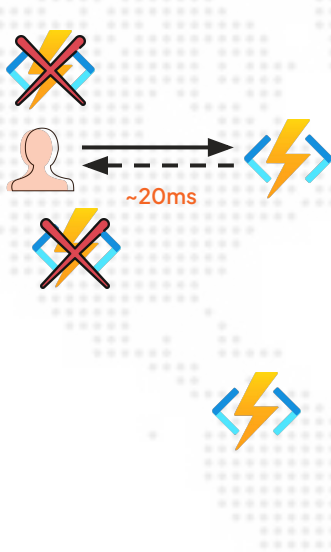


\$28.00

\$104.00

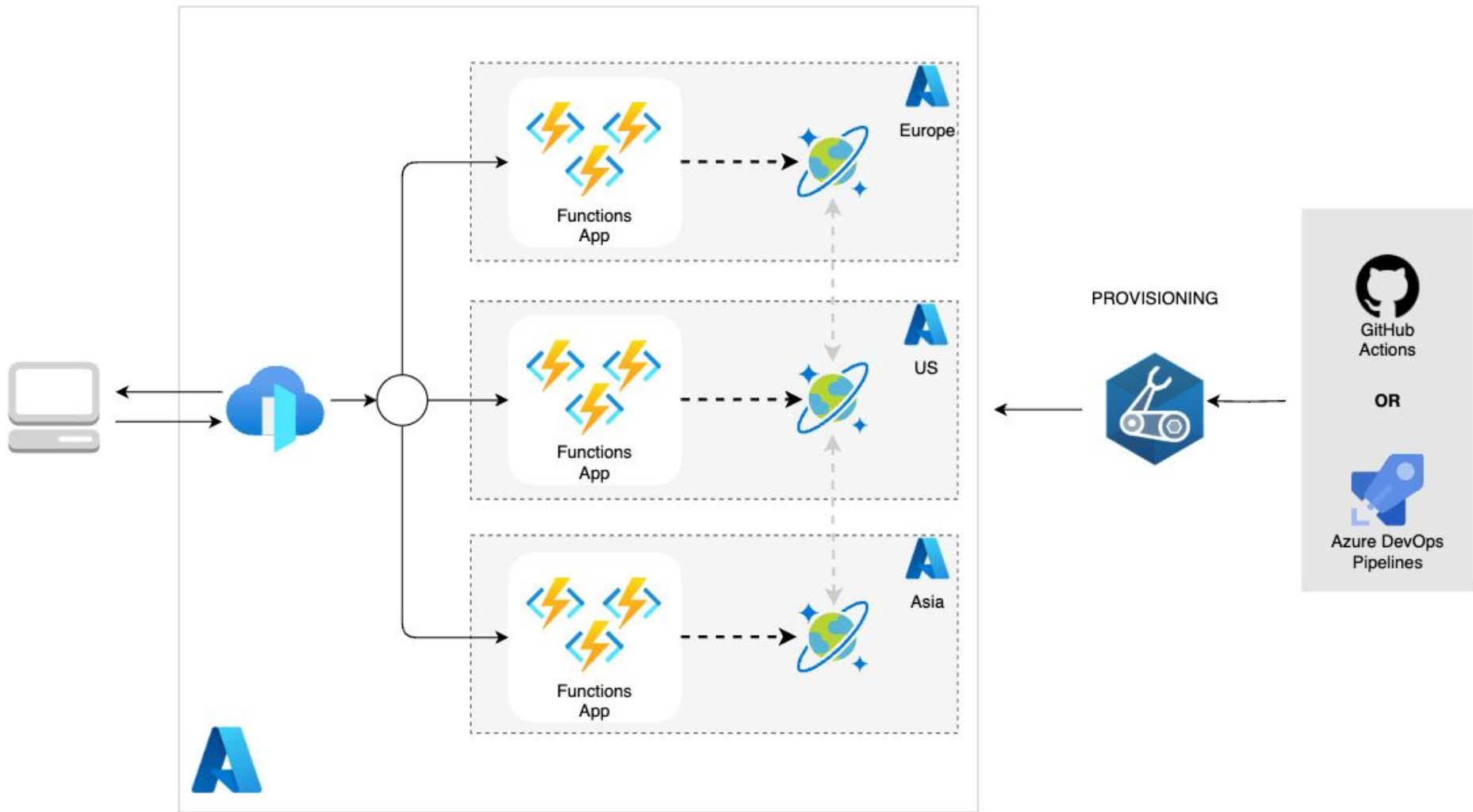


\$104.00



Serverless Edge Computing







florianlenz96/ global-ebon

This repository contains code and resources from the presentation "Building Ultra-Fast, Globally Distributed Apps with Serverless at the Edge". The...



1

Contributor



0

Issues



0

Stars



0

Forks



/in/florianserverless/



@FlorianLenz



www.florian-lenz.net



SpreeaView



Review my Session