

# Turning Chaos into Control with Cloudflare

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Organized By



Hosted By



24

September

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Belvedere Rd, London SE1 7PB



# When Reality Hit

Marks & Spencer - April 2025

OUR DIGITAL CLICK  
& COLLECT SERVICE  
IS TEMPORARILY  
UNAVAILABLE

We're experiencing technical issues  
with digital collection and returns.

Please speak to a colleague  
if you need assistance.

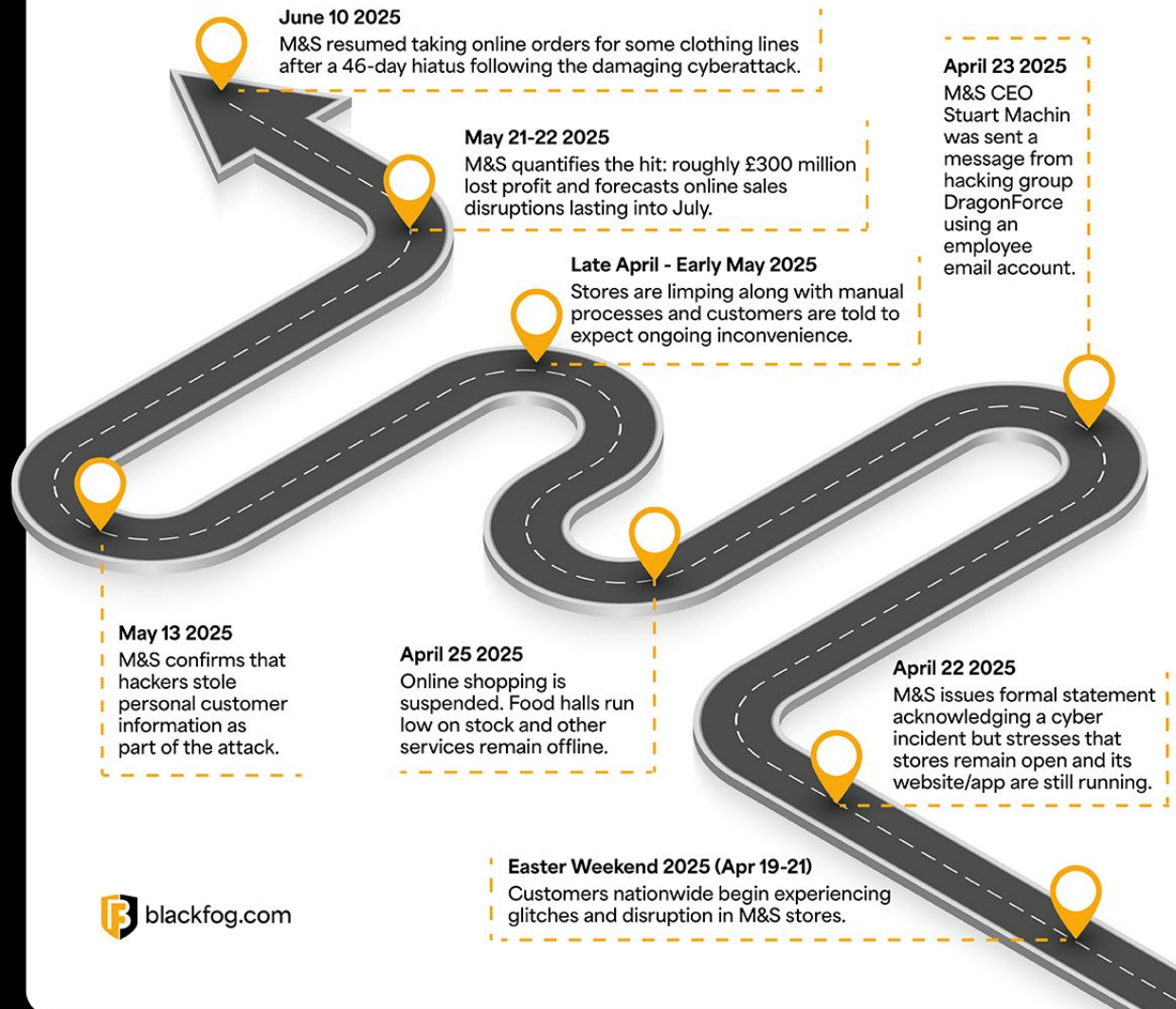
M&S

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# The Scale of Damage

46 days of disruption

£300m loss









# **TURNING CHAOS INTO CONTROL WITH CLOUDFLARE**

**24 SEPTEMBER 2025**

**JOHN ADIB**



# Not Just Node.js

Node.js everywhere, plus some  
Python

# Too Many Deployment Models



Cloud Functions. Cloud Run.  
Kubernetes. Firebase.





# Scattered URLs

Multiple domains. Cloud Run  
URLs. No single entry point.



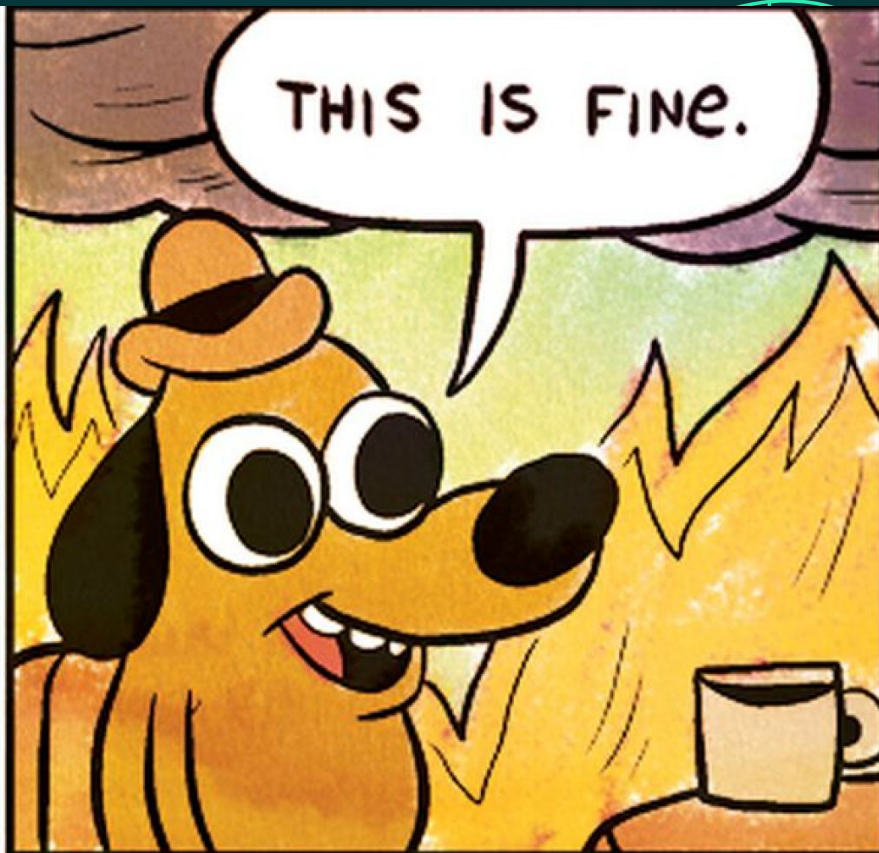
# Security Gaps

Public endpoints. Direct DB access. No Zero Trust model.

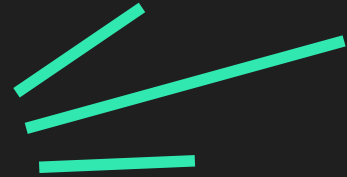


# High Business Stakes

Thousands of orders. Millions  
of requests. Security matters.

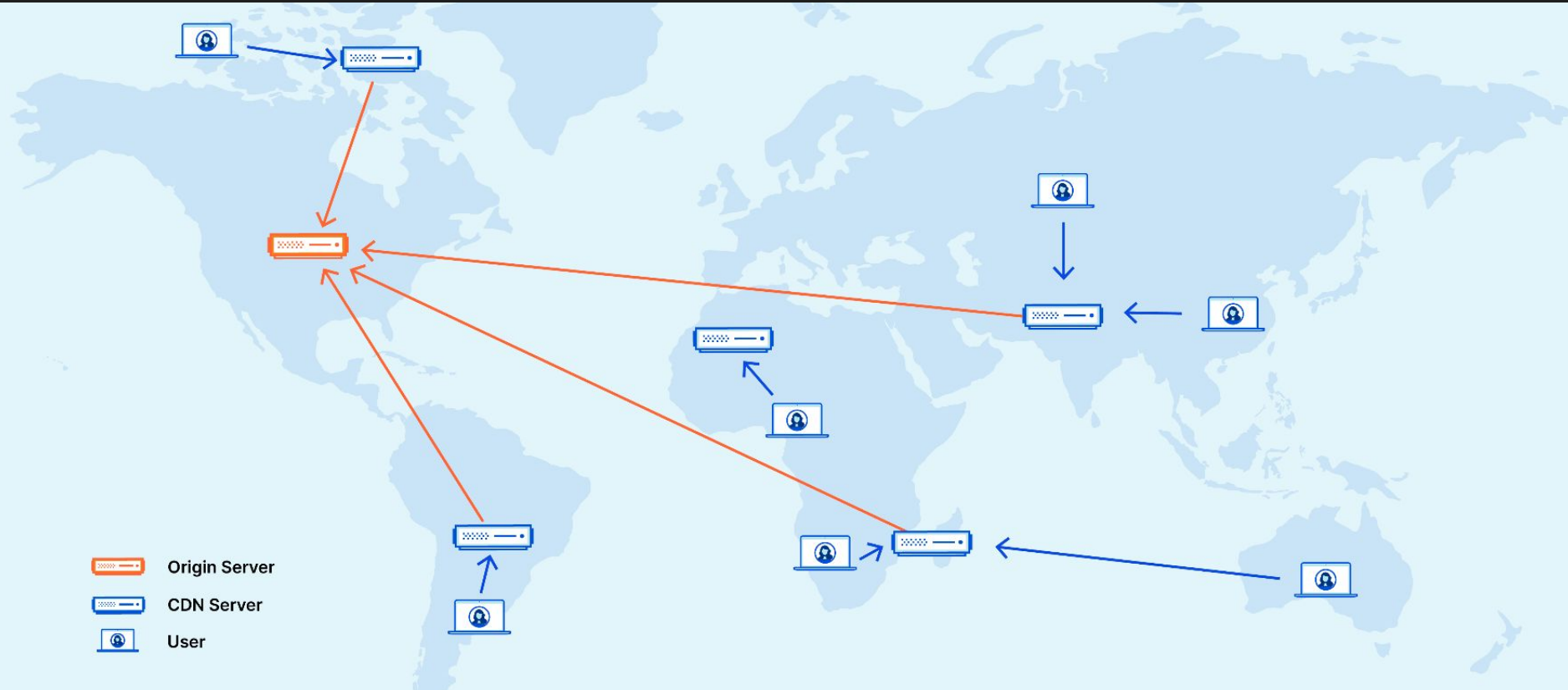


# Foundation of the Solution

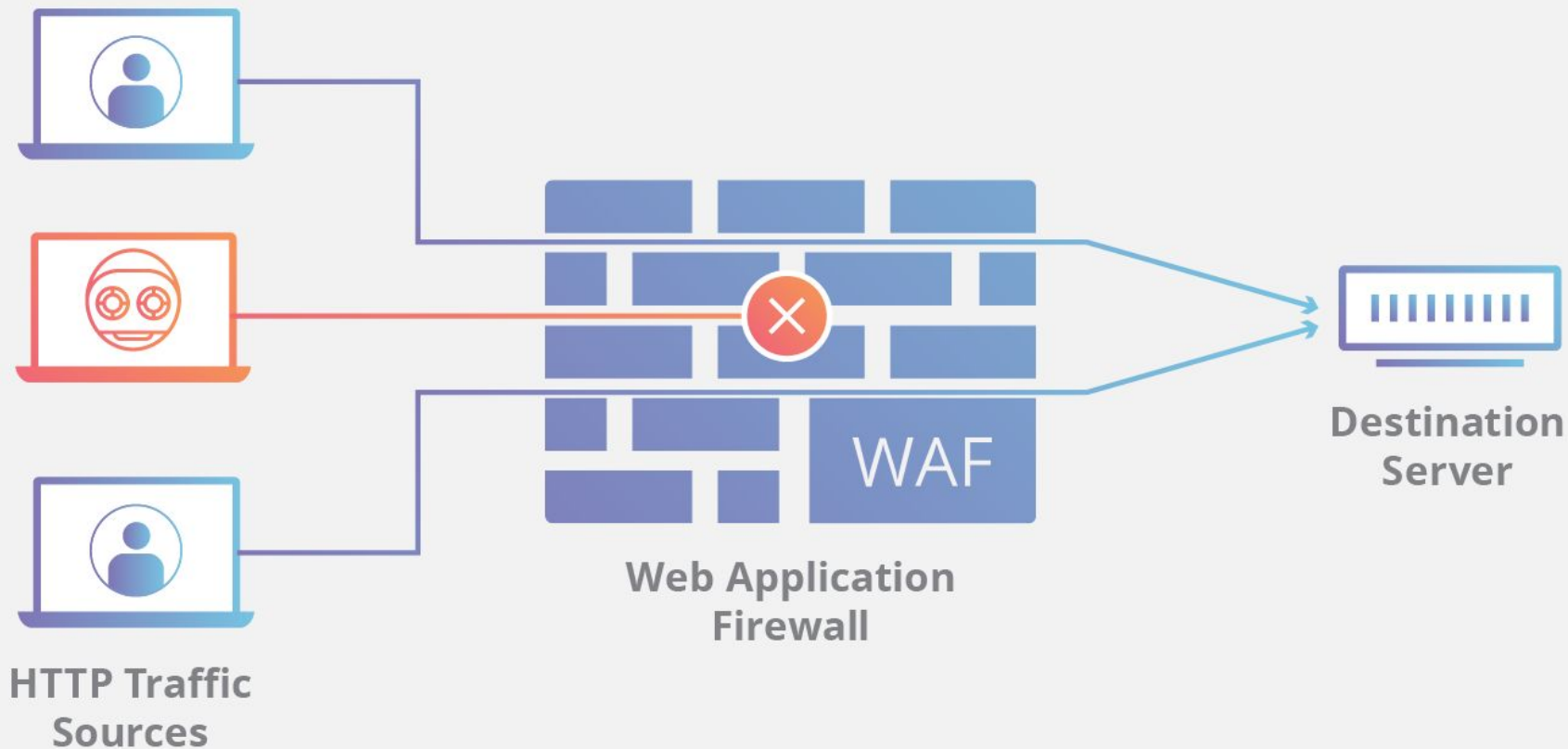




# CDN - Content Delivery Network



# WAF - Web Application Firewall



# Authentication

Who you are





# Authorization

What you can do after login



# Single Sign-On (SSO)

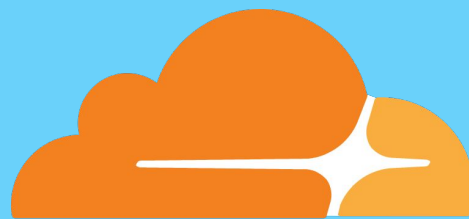
One login for everything





# Zero Trust

Never trust, always verify



CLOUDFLARE®



# One Domain for All

One front door instead of  
many URLs



# Protecting Everything

APIs, events, and UI all behind  
Cloudflare



# Customer-Facing website

Better experience for end  
users





# Cloudflare Zero Trust

From dev to prod, every  
request checked by policy

# Reality Check



# One-Time PIN Issues

OTP delays → moved to  
Google Login



# CF Zero Trust Pricing

50-user limit

Pay-as-you-go £7 per user



# GCP Cloud Run

No custom domain support for  
servers in London (eu-west-2)



# GCP Load Balancer + Cloud Armor

Extra Layers We Didn't Plan For





# E2E Testing

E2E tests need headers to  
bypass Zero Trust

QA 



Are we happy with the result?

Yes!



Did we face any surprises?

Yes!



Was that the best solution?

Yes!



**All your cyber security efforts**



**That one employee clicking on a phishing link**





Thank you,  
Let's connect!



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