

# Cloudflare for App Modernization

Shorten time-to-value as you rehost, replatform, or refactor apps — or even build from scratch.

## Extend app lifespan, embrace agility

Exploding demand for digital services, including AI, are pushing legacy applications to their limits, forcing enterprises to modernize fast — or fall behind.

Accelerate your app modernization projects with Cloudflare's app delivery, security, observability, development, and AI capabilities — all on one global network and architecture.

- **Drive growth:** Launch dynamic apps globally, scale everywhere while staying compliant, reimagine digital experiences with AI
- **Reduce risk:** Stop DDoS and volumetric attacks, automate protection against evolving threats, secure privileged access
- **Lower costs:** Shift CapEx to OpEx by retiring on-prem infrastructure, cut egress and cloud costs, extend life of enterprise apps



## Avoid point solutions or vendor lock-in

As you migrate app servers to the cloud, living with legacy app delivery services often creates fragmented networks that hamper business and developer agility.

Modernizing apps with public cloud providers can accelerate cloud migration — while locking you into one cloud, raising risks and costs, and cutting flexibility.



### Rehost legacy apps

Deliver the most agile and consistent customer experience globally — no matter your app environments.



### Replatform legacy apps

Orchestrate app components, security policies, and disparate infrastructure with no app rewrites for seamless user experiences.



### Refactor legacy apps Or build new apps

Accelerate building, consuming, and deploying of AI services and full stack apps with Internet-optimized AI and app primitives.

**One global network and architecture**  
Delivery · Security · Development



# Technical capabilities

## Accelerate and secure apps and AI services

### Application delivery and security

Improve app experiences with [CDN](#), [DNS](#), and [load balancing](#).

Automate protections with in-line security for [GenAI services](#), [APIs](#), [bots](#), [third-party app components](#), [volumetric attacks](#), and [web and mobile apps](#).

Serve content from caches longer with our large [persistent data store](#) to reduce egress fees.

## Build full-stack apps and AI services

### Developer and AI services

Integrate enterprise apps and modern user-facing functionality with [serverless functions](#) close to the user.

[Run AI models](#) and [AI agents](#) at the edge, powered by serverless GPUs.

Choose flexible serverless storage options for [objects](#), [key values](#), [SQL](#), [task queues](#), [vectors](#), and more.

## Observability from dev to runtime

### Application and Developer services

Gain deeper visibility across app components with [real-time logs](#) on errors and user behavior.

[Monitor AI usage and costs](#) and [implement AI guardrails](#) on prompts and results.

Meet compliance requirements with [detailed logs](#) across APIs and public, SaaS, and mobile apps.

## Secure access across internal environments

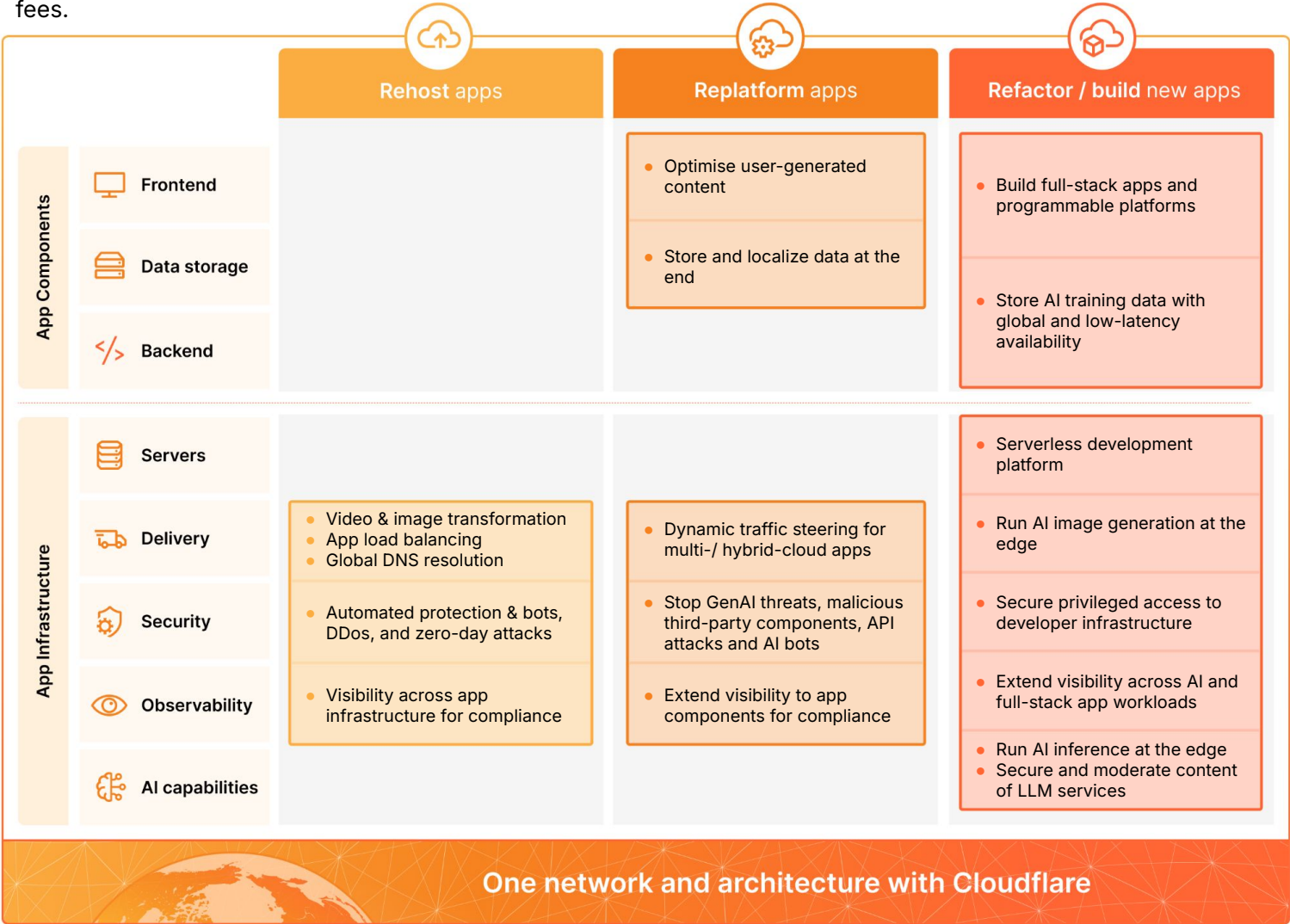
### Security Services Edge (SSE) services

Enforce [Zero Trust access](#) to web, SaaS, and private apps.

Encrypt and store developer [secrets](#).

Authenticate, authorize, and audit privileged access to [infrastructure targets](#) with [browser-based RDP](#).

Protect [sensitive data](#) within AI services, apps, and [APIs](#).



## Project #1: Rehosting legacy apps

### Strategic goal:

Migrate app “as is” to the cloud with no underlying code changes to scale and lower costs.

### How Cloudflare helps

Host your app with your preferred cloud provider. Migrate app infrastructure onto Cloudflare to extend lives of existing apps, enhance digital agility, and improve resilience.

Accelerate apps globally with DNS, CDN, and load balancing at the edge. Protect from DDoS attacks, zero-day exploits, and other downtime incidents.



→ Improve security and delivery wherever you host your app



## Project #2: Replatforming legacy apps



→ Embrace DevOps



→ Manage multi-cloud and hybrid complexity



### Strategic goal:

Optimise app infrastructure for multi- and hybrid-cloud environments to enhance functionality.

### How Cloudflare helps

Orchestrate seamless digital experience without rewriting each app. Enhance apps with functions-as-a-service and automate management with infrastructure-as-code.

Enforce consistent security against GenAI threats, API abuse, AI bots, and third-party app risks with a single control plane across enterprise environments. Consolidate visibility across app components and infrastructure to meet global compliance standards.

## Project #3: Refactoring legacy apps or building new ones

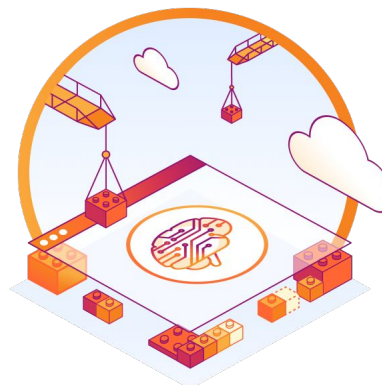
### Strategic goal:

Transform apps to capitalize on modern tech, including AI, serverless computing, microservices, and more.

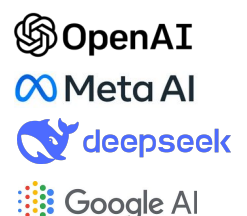
### How Cloudflare helps

Improve developer velocity with security built-in on Cloudflare’s serverless development and edge services platform.

Support new workloads throughout the AI lifecycle: store training data without egress fees, run inference at the edge, observe and improve performance of AI deployments, and secure AI usage.



→ Enable apps with AI



## Drive growth, reduce risks, and lower costs with Cloudflare



E-commerce  
[Read case study](#)

Protect and personalize online shopping experience worldwide

- 6 million customer domains protected from automated attacks
- 170+ petabytes of data processed monthly with fast, reliable service
- Help Shopify **personalize apps** like shopping carts and payment gateways

"Cloudflare puts our services within 50 milliseconds of anybody on the planet. That allows us to build experiences that feel local to everyone, everywhere, at any time."

**Duncan Davidson**  
VP, Developer Productivity, Shopify



Automotive parts  
[Read case study](#)

Security and visibility across growing digital presence

- 450 million threats blocked in 1 year
- 900+ apps and websites protected
- Discovery of screen scraping by a competitor prompted blocking of malicious competitive activities

"When board members see the numbers, they know we're getting a solid return on our Cloudflare investment."

**Damian Apone**  
Global Director of Governance, Risk, Compliance, and Security, Genuine Parts Company



Retail  
[Read case study](#)

Improve security efficiency

- 400+ e-commerce sites protected with deployment within months
- 75% reduction in incident resolution time, unlocking staff efficiency



Telecommunications  
[Read case study](#)

Unlock cost savings

- CAD \$11.8 million in projected direct costs savings over three years
- 100+ hours of overtime eliminated because of increased staff efficiency

## Ready to modernize your apps with Cloudflare?

[Request a consultation](#)

