

# Cloud hos Cloudflare

En introduktion till Cloudflare Workers - en plattform för serverless compute utan cold starts - och kringliggande tjänster

# Agenda

- Kort om Cloudflare
- Workers och kringliggande tjänster
- Demo
- Fördelar och nackdelar

# Cloudflare

- Grundades 2009
- Erbjuder tjänster för bl.a. DDoS hantering, CDN
- Driver en DNS server på 1.1.1.1
- 2017 lanserades Workers

The image features a solid yellow background. On the left side, there are three white squares of varying sizes arranged in a stepped pattern. The top square is medium-sized. Below it, to the right, is a larger square. To the left of this larger square is a smaller square. The text 'Workers och kringliggande tjänster' is positioned to the right of the largest white square.

Workers och  
kringliggande  
tjänster

# Compute

- Workers
  - Inga coldstarts!
  - Kostnad per CPU-millisekund

# Storage

- D1
  - Serverless SQL databas
- R2
  - Objectstorage
- KV
  - Key/Value store
- Durable Objects
  - Koordinera state mellan klienter

# Messaging

- Pub/Sub
  - Distribuerad MQTT
  - Stängd beta
- Queues
  - Öppen beta

# Webb

- Pages
  - JAMstack
  - Stödjer många ramverk
- Stream
  - Videohosting
- Images
  - Bildhosting



# AI

- Workers AI
  - En worker med GPU som kan köra utvalda open source modeller
- Vectorize
  - Vektordatabas

The image features a dark purple background with several white geometric shapes. On the left is a tall, vertical rectangle. In the bottom center is a parallelogram. On the right side, there are two stacked rectangles, with the top one being smaller than the bottom one. The word "Demo" is written in white, sans-serif font, positioned to the right of the tall rectangle and above the parallelogram.

Demo

The image features a dark purple background with several white geometric shapes. On the left is a tall, vertical rectangle. In the top right corner is a horizontal rectangle. In the bottom right corner is a larger vertical rectangle. At the bottom center, there is a parallelogram. The text 'Fördelar och nackdelar' is positioned in the center of the image, between the left rectangle and the right-side shapes.

# Fördelar och nackdelar

# Varför Cloudflare?

- Kostnad
- Inga cold starts
- Endast managed services

# Varför inte Cloudflare?

- Endast managed services
- Workers stödjer relativt få språk
- Smalare utbud av tjänster
- Ingen stor spelare (inom cloud)

## Amazon Maintains Cloud Lead as Microsoft Edges Closer

Worldwide market share of leading cloud infrastructure service providers in Q1 2024\*

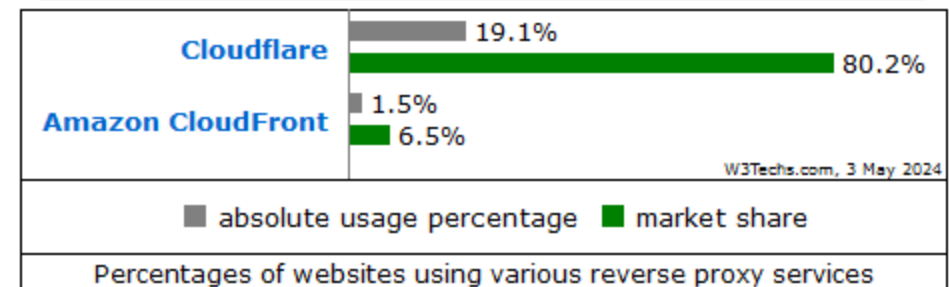


\* Includes platform as a service (PaaS) and infrastructure as a service (IaaS) as well as hosted private cloud services

Source: Synergy Research Group



statista



# Sammanfattning

- Ni vet vad workers är
- Ni vet hur man skriver en worker
- Testa!

Tack för mig!

# Resurser

- Repo med kod från demo - <https://github.com/Doverstav/kitscon241/>
- Bygg en RAG med Workers AI - <https://developers.cloudflare.com/workers-ai/tutorials/build-a-retrieval-augmented-generation-ai/>
  - Går igenom Workers, Workers AI, D1, Vectorize och Hono