




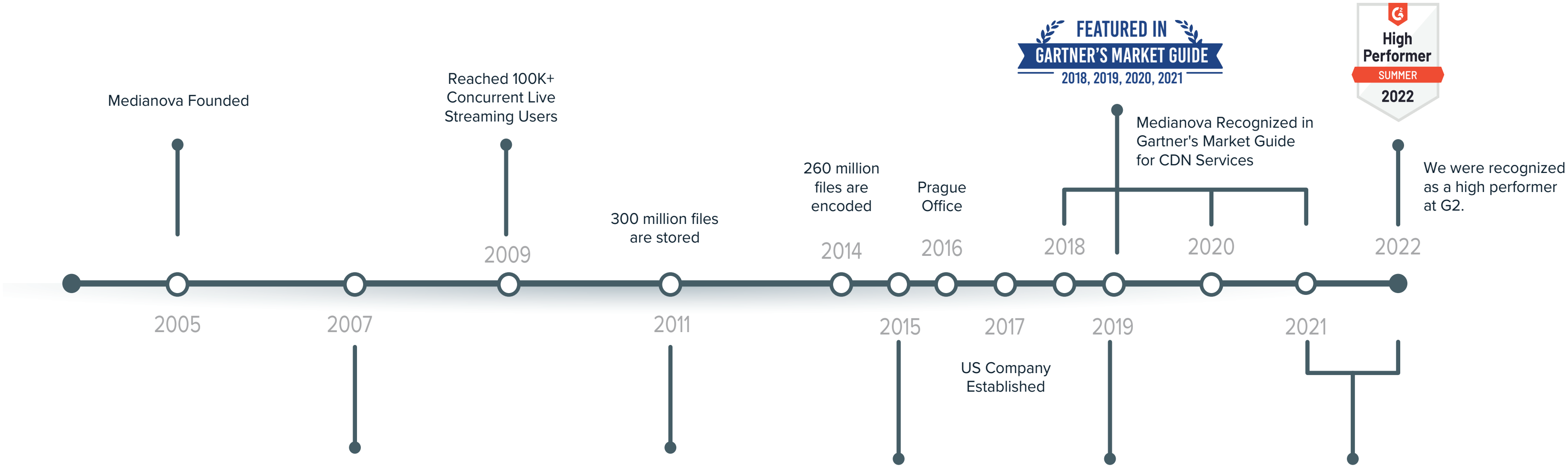
Enhance Performance
and Security

sales@medianova.com 

www.medianova.com 

[MedianovaCDN](#) 

Our Journey



- 16 years old company with experience ◆
- 600+ Customers ◆
- 24/7 Support ◆

Worldwide Football and Horse Racing Streaming



Technology Fast 500
EMEA Winner 2011, 2012

Technology Fast 50
Turkey winner
2011, 2012, 2013, 2014 2015



Medianova has been awarded second place in 2014 & 2015 "Cloud Storage Services" by Eurocloud as "Best IaaS/PaaS Service".



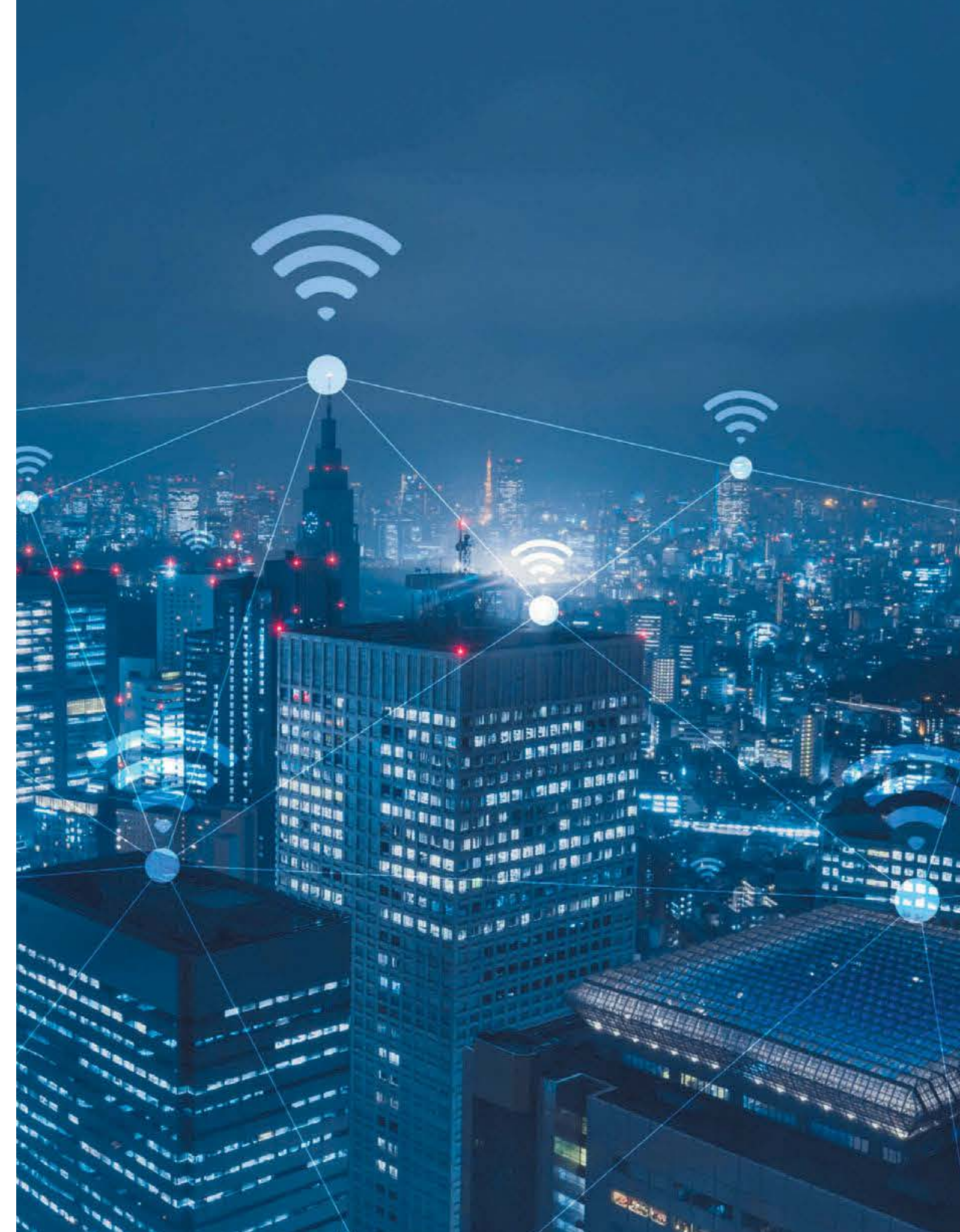
Medianova is certified by ISO Standards!



We won the Great Place To Work award

Problem

Number of **connected Apps & API requests** (dynamic content) and **cyber threats** is increasing in today's digital world.





You have to make sure that your APIs are delivered quickly, your **app performs** well and you are **protected from** cyber attacks.

A hand is holding a smartphone in the foreground, displaying a financial chart with a green line and red bars. In the background, a laptop screen shows a similar financial chart. The laptop is a MacBook Pro, and the keyboard is visible. The scene is set in a blurred indoor environment, possibly a cafe or office.

Accelerate and Secure your **App** and **APIs** with **Aksela**.

Enhance API & Web performance
and security while maximizing
user experiences.

What is **Aksela**?

Aksela is a **dynamic content caching** platform, that provides performance and security as a pack.

Aksela **improves the performance** of your **web site and APIs**, by **microcaching** your **dynamic** content in a distributed manner and serving them to your end-users from closest locations.

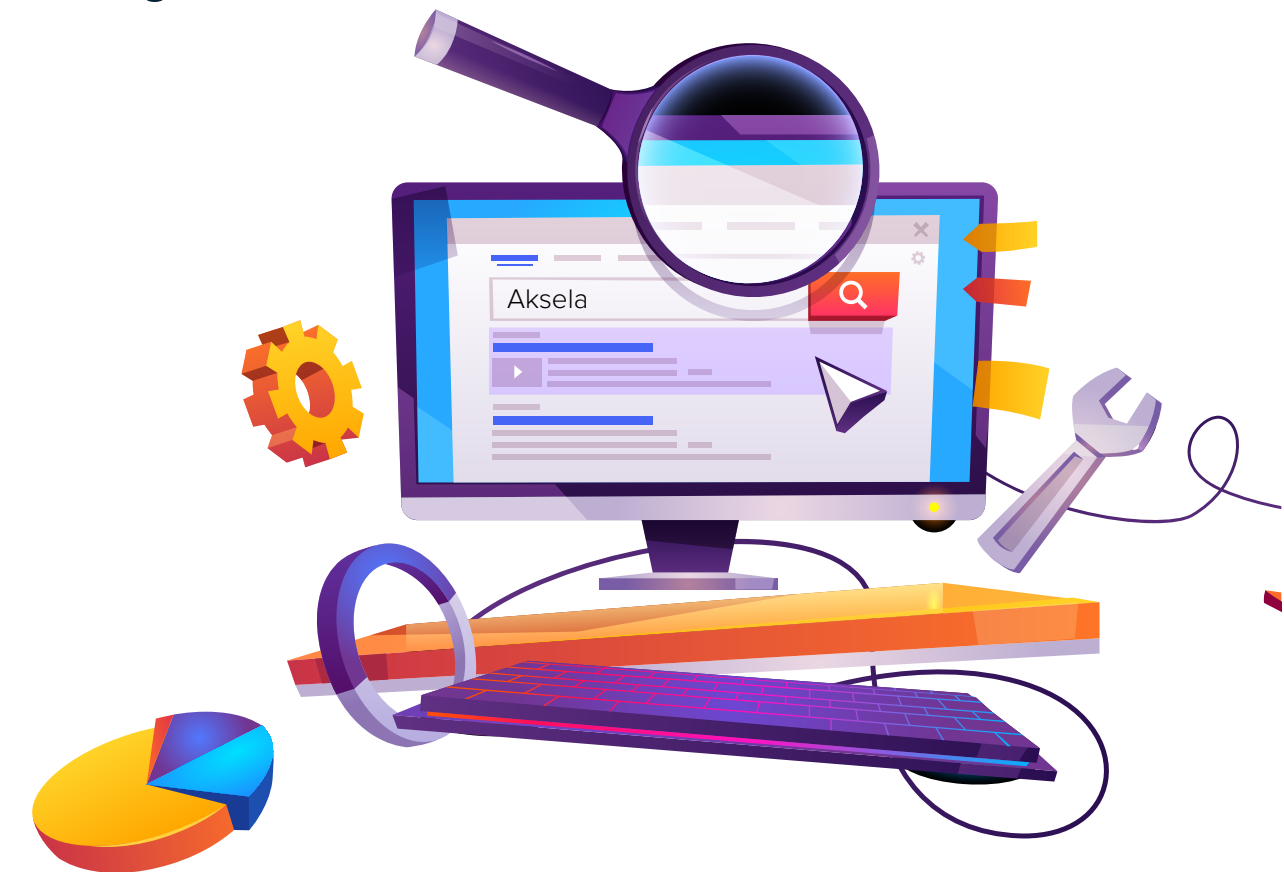
Aksela **enhances** your **security** by providing you **IP Protection** since it handles the traffic at the edge and hides your origin. Its **distributed architecture, DPDK and Anycast DNS architecture** provides **reliability** and **DDoS mitigation** capabilities.



Accelerate your site with Aksele

Aksele's **web site compression, dynamic browser caching, dynamic page caching, HTML & CSS & Javascript compression and domain sharing features, help you to offload more than 90% of hosting transactions to CDN and deliver your dynamic content around the world.**

- Aksele stays between the end user and your origin platform.
- When an end-user visits your website or app, Aksele requests the page from your origin.
- Content is cached using **micro caching** techniques.
- Cached content is delivered through POPs around the world.
- Private content bypasses caching (thanks to cookies and/or Javascript/AJAX).
- **Your site is still up even if you have a downtime on the origin.**



Accelerate your APIs with Aksele

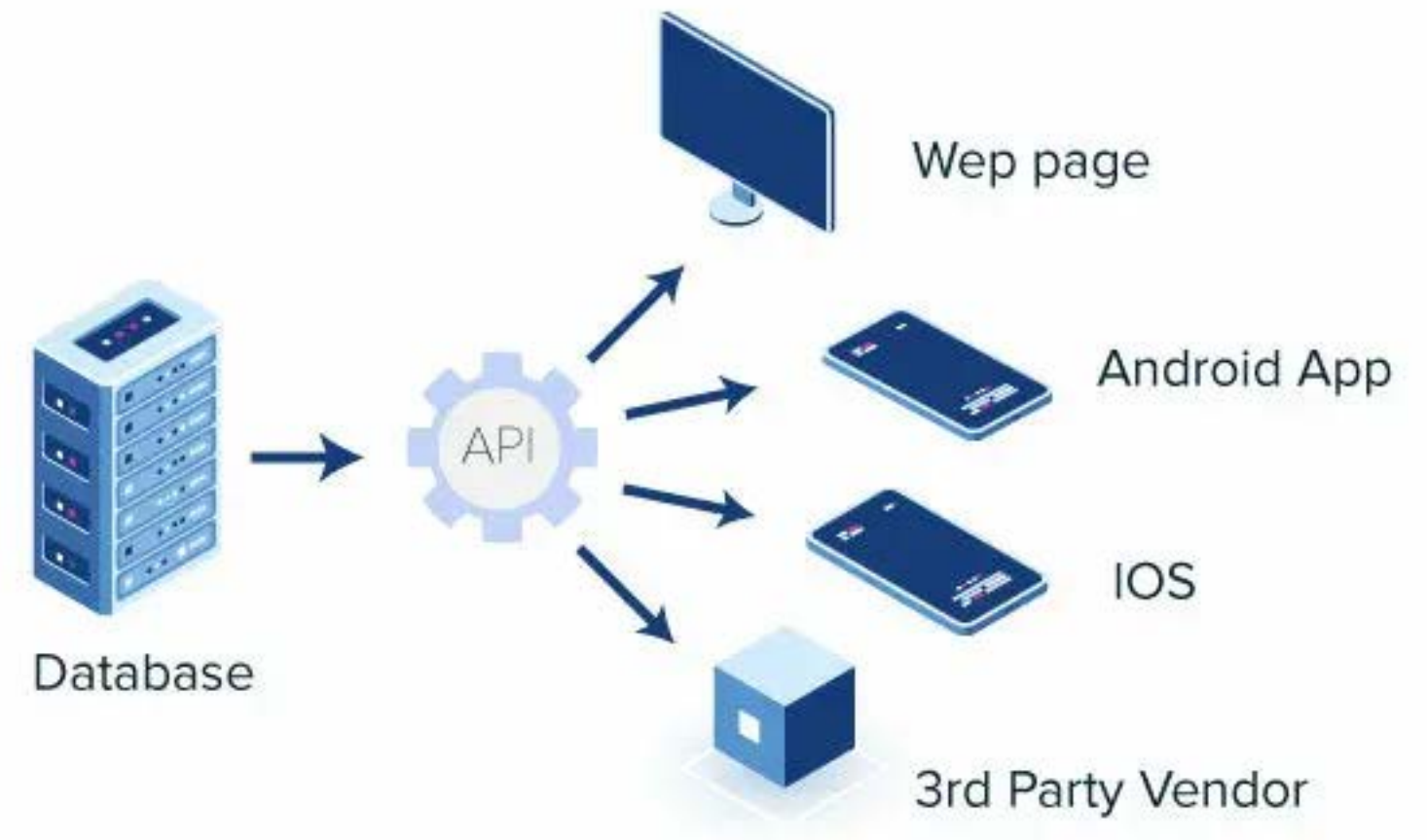
Aksele not only improves performance and security for web applications but also for APIs.

In a modern web application, all the clients are API consumers (such as REST API and GraphQL) and they make different API requests to get results.

These different API requests sent by consumers or clients will create a large number of requests flow into your API endpoint. In case of a popular web/mobile application, these requests can reach **millions of API calls** each day.

With Aksele,

- **cache your API responses, even for one second;**
- offload login, database and data computing transactions to CDN and
- thereby reduce API requests' latency.



Test results

We ran a test using Siege with 100 concurrent users to an API endpoint with and without caching.

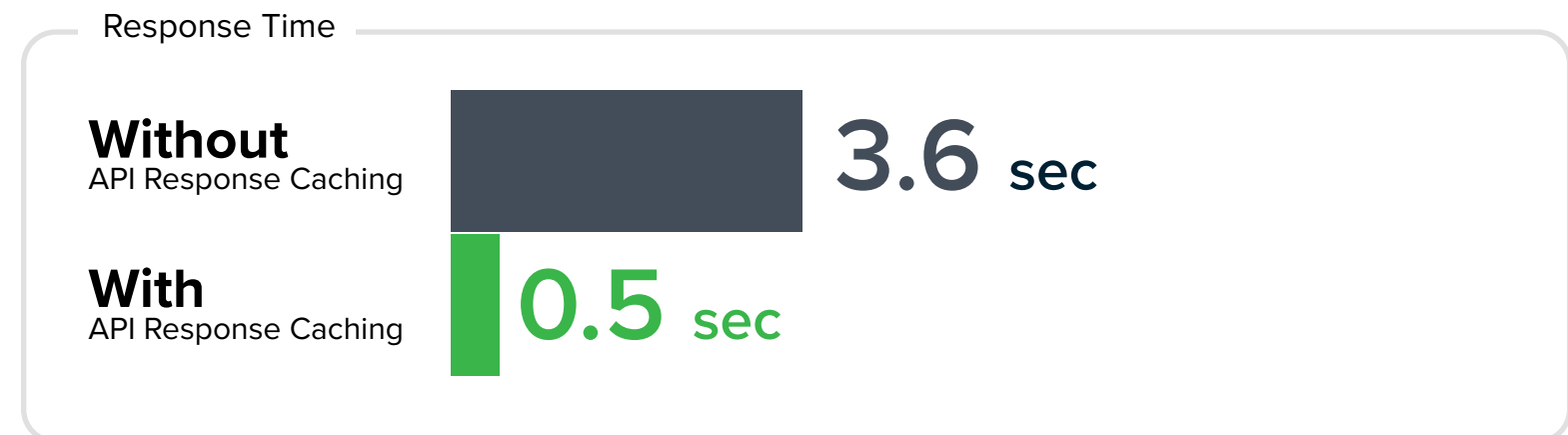
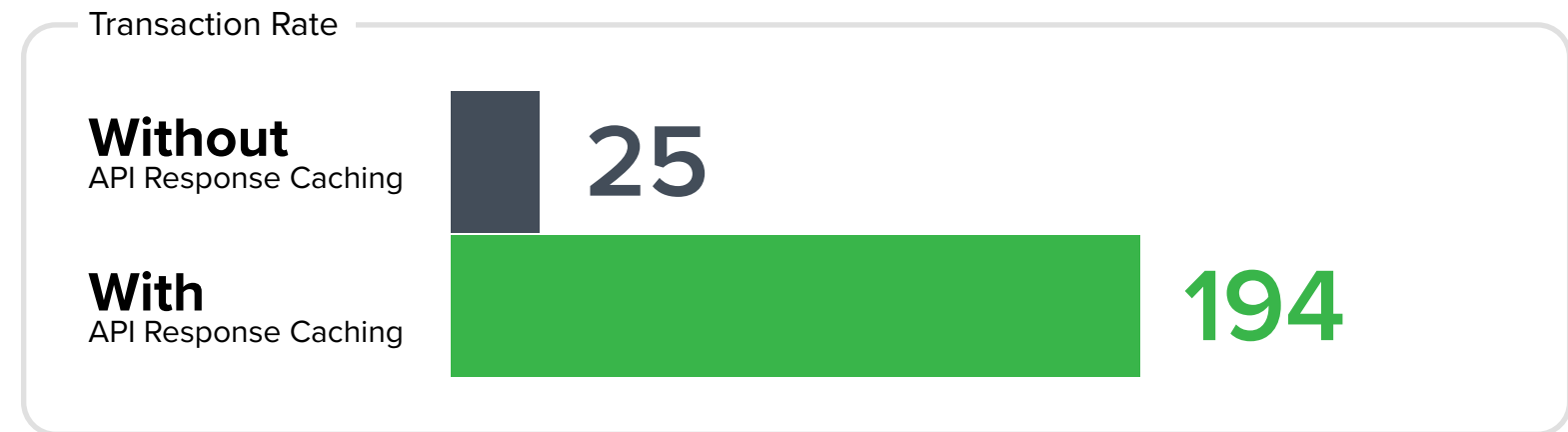
In this test, by using Medianova API caching, we were able to increase the Transaction Rate from **25.42** transactions per second to **194.93** transactions per second. This is a **666% improvement** in performance.

Likewise, response time decreased from **3.66 sec** to **0.51 sec** making it **86% faster**.

✘ **without**
API Caching

✔ **with**
API Caching

Transaction Rate	25.42	194.93
Response Time	3.66 sec	0.51 sec



Improve your security with Aksela

Aksela not only improves web performance but also enhances your security by providing following features for protection against cyber threats.



DDoS Mitigation

Aksela mitigates DDoS attacks thanks to its distributed architecture, DPDK and Anycast DNS architecture.



WAF Service compatible with OWASP Top 10

Medianova WAF service built on top of Aksela protects your site from the OWASP top 10 vulnerabilities



Rate Limiting

With Aksela Rate Limiting, you can limit requests that exceed defined thresholds.



Geo-Blocking

With Aksela Geo-blocking you can stop attacks from a certain geography.



TLS 1.3

Aksela provides free HTTPS security to prevent data theft and increase your cipher strength.

Further Critical Benefits of Aksela



End User Specific Caching

With Aksela dynamic content acceleration service, you can cache and forward pages containing customer-specific contents.



Reduced Cost & Increased Scalability

Aksela not only increases your reliability and scalability, but also reduces your resource usage and the network costs.



SEO Booster

Your website gets full marks in the performance and Core Web Vital tests of Google bots both locally and globally.



%100 Availability with Collapse-Proof Websites

Even if your primary origin source is down, your site will continue to be accessible without 5xx errors thanks to Aksela. Your origin gets protected against unusual / unpredictable traffic spikes containing customer-specific contents.



Easy Integration & E-Commerce Friendly

Aksela is compatible with SAP Hybris. The entire on-boarding process is carried out with our dedicated customer excellence team, on private onboarding Slack Channels.

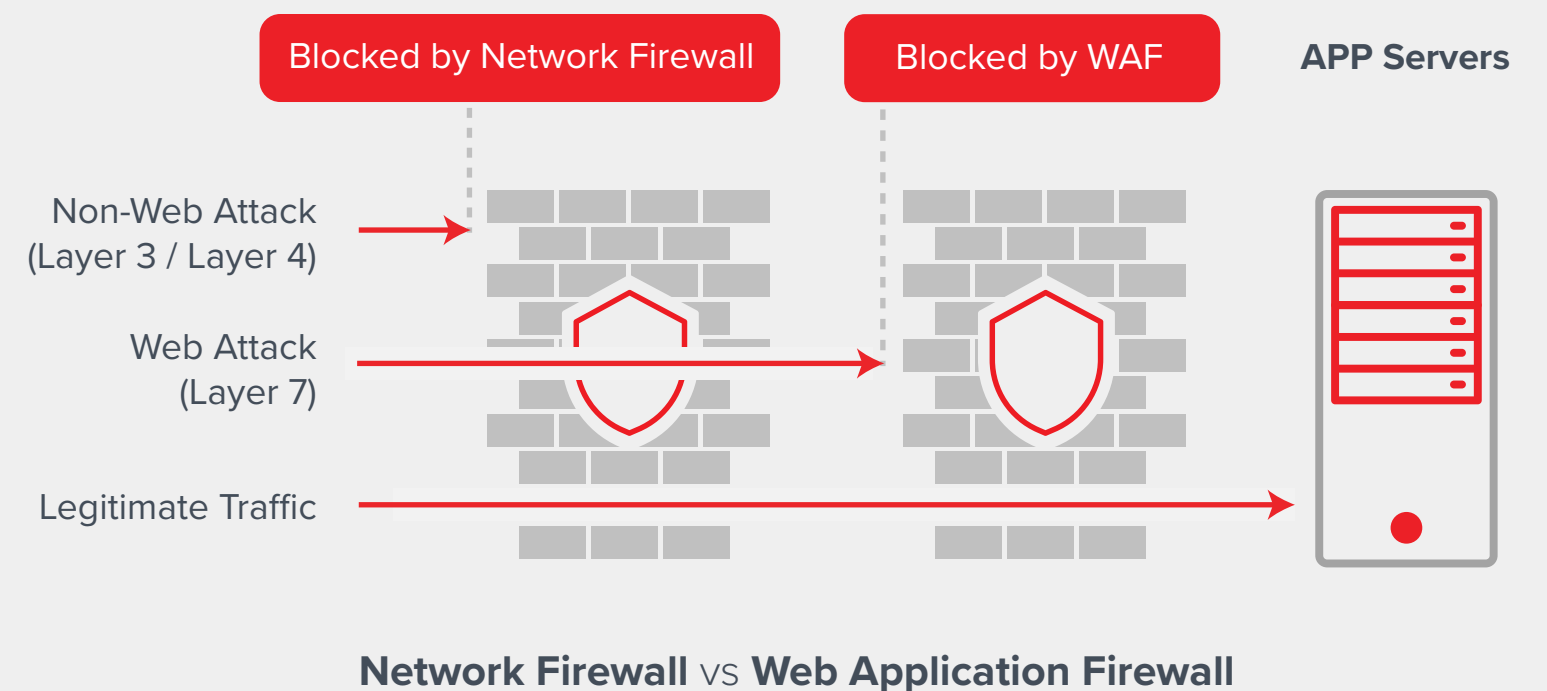
WAF (Web Application Firewall)

Standard network firewalls alone cannot protect your Apps and APIs from application layer attacks.

Medianova WAF is built on top of **Aksela** and protects your web applications and APIs from commonly seen attacks such as **SQL injection, Cross site scripting (XSS), Credential Stuffing** and many more.

It analyzes **two-way HTTP/HTTPS request traffic** and bans malicious ones.

It provides defense against **OWASP Top 10** security vulnerabilities.





Customer **Success Story**

Ebebek is both an online and a brick&mortar store chain that sells baby and motherhood items. It has **1.4 total visits per month** on average.



Challenge

ebebek's site www.e-bebek.com was initially taking a long time to open and load. Since the solution they opted for did not include micro-caching, the website was completely unfunctional when the origin servers of the site collapsed.



Results

After switching to Medianova's API caching platform, e-bebek's website and mobile application started to **load** by over **60% faster**

The **CPU usage** of the origin servers **decreased by 82%**.

Testimonial



Alper Tekin

Information Technologies
Director


“We were facing some troubles with our website and mobile application, and unfortunately, the solution of our previous CDN provider didn't seem to help much. Luckily, after being introduced to Medianova's CDN technologies like Aksela, we realized that their solutions for both the website and the app were more suitable, and the performance data was confirming this. Now we can certainly say that our TTFB and CPU usage decreased drastically and that the user experience we provide to our shoppers is much better.”


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Thank you

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