



## CASE STUDY

# WEDOS Enhances Global Cybersecurity by Handling 200,000 Requests per Second with Ampere® Processors

## OVERVIEW

WEDOS, a leading cybersecurity and hosting provider, faced increasing challenges responding to brute force attacks and expanding its global points of presence (PoPs). Traditional servers proved inefficient, expensive, and difficult to scale.

By adopting Ampere Cloud Native Processors, WEDOS streamlined operations, improved response time during attacks, and enhanced cost efficiency, ultimately ensuring better cybersecurity protection for global clients. This shift allowed WEDOS to remain competitive in a rapidly evolving industry.

## AMPERE PRODUCTS USED

- Ampere® Altra® Processors (specifically Altra Max M128-30 Processors)
- HPE ProLiant RL300 Gen11 server

## ENGINEERING SOLUTION

WEDOS integrated Ampere® Altra® Max Processors across their global PoPs. These processors provided high core counts and low power consumption, essential for managing traffic spikes and defending against large-scale cyberattacks. With over 50% efficiency improvements using NGINX as a reverse proxy, the servers could handle massive amounts of requests while consuming minimal energy.

Ampere's compact design also allowed easy deployment and reduced colocation costs, facilitating the global expansion of WEDOS' PoPs. This led to faster deployment times and improved system redundancy, ensuring uninterrupted service.

## BENEFITS

Ampere's processors enabled WEDOS to reduce operational costs by up to 30% due to improved power efficiency and reduced colocation expenses. During a large-scale cyberattack, WEDOS' Barcelona PoP handled 200,000 requests per second with only 3% CPU utilization, ensuring business continuity for critical clients.

Additionally, Ampere's processors' high core count and efficiency made it easier for WEDOS to deploy and manage their global PoPs, leading to faster response times and improved protection for their customers. The power efficiency also aligned with WEDOS' sustainability goals, further strengthening their value proposition.

## COMPANY DESCRIPTION

WEDOS is the largest hosting services provider in the Czech Republic and a growing force in cybersecurity, offering DNS, CDN, and advanced protection against cyberattacks for clients worldwide. With a focus on business continuity and resilience, WEDOS has become a trusted partner for banks, governments, and enterprises seeking comprehensive security solutions.

Their expertise in managing global PoPs and reverse proxy servers has made them a leader in protecting high-traffic websites from DDoS and brute force attacks. Their commitment to innovation ensures they stay ahead in cybersecurity trends.

## CHALLENGES

WEDOS faced two major challenges: defending against brute force attacks and deploying globally distributed PoPs cost-effectively. Their Intel-powered Moonshot servers could not match the energy efficiency and their bulkiness proved them more complicated to set up and distribute loads evenly.

Additionally, customers demanded uninterrupted service and high performance during intense cyberattacks and traffic spikes. WEDOS needed a powerful and scalable solution to meet these demands while maintaining cost efficiency.

"Ampere-based processors outperformed our previous systems, allowing us to process 200,000 requests per second with just 3% CPU utilization. The transition was smoother than expected, and the performance gains were immediately apparent. We saw a 30% reduction in operational costs due to lower energy consumption and colocation expenses.

Ampere has been a game-changer for us, improving both the performance and scalability of our cybersecurity solutions. We are excited to continue leveraging Ampere's technology to safeguard our clients and expand our global footprint."

— Josef Grill, CEO, WEDOS

## About Ampere

Built for sustainable cloud computing, Ampere Computing's Cloud Native Processors feature a single-threaded, multiple core design that's scalable, powerful, and efficient. [Learn more](#)

See our solutions for a variety of demanding workloads: [amperecomputing.com/solutions](https://amperecomputing.com/solutions)

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