



DEPLOYMENT OF AMAZON CLOUDFRONT FOR COMPANY WEBSITE

EXECUTIVE SUMMARY

The customer's corporate website, hosted outside of AWS, required significant enhancements in both performance and security to better serve users across the United States. To address these needs, the customer selected Amazon CloudFront as their content delivery network (CDN). This initiative focuses on the design and implementation of a CloudFront-based solution to improve website speed, reduce latency, and strengthen protection against web-based threats - delivering a seamless, secure, and reliable digital experience for users nationwide.

THE CHALLENGE

The customer's website, hosted outside of AWS, has notable limitations in delivering the performance and security required to support a global user base. Geographic distance from end users results in higher latency and slower load times, reducing engagement and overall satisfaction. The lack of AWS-native security capabilities increases exposure to web-based threats and malicious traffic. In addition, the current hosting provider struggles to scale reliably during peak demand, creating risks of downtime and degraded performance. Together, these challenges lead to an inconsistent digital experience, with significant variability in speed and reliability across regions.

IDT SOLUTION

IDT collaborated with the customer to implement a global content delivery solution built on Amazon CloudFront, supported by AWS WAF, Amazon Route 53, and AWS Certificate Manager (ACM). The solution introduced intelligent edge caching, optimized traffic policies, and data compression to improve speed and responsiveness, while advanced security controls - including managed WAF rules, DDoS protection, origin access restrictions, and TLS encryption—significantly strengthened the website's resilience.

Business Outcome: The customer now operates a high-performance, enterprise-grade web platform that delivers faster page load times, consistent reliability, and robust protection against cyber threats - enabling scalable growth and reinforcing trust with global users.

THE BENEFITS

Through this engagement, the customer implemented a globally optimized web delivery platform that enhanced both performance and security.

The use of regional edge caching, intelligent routing, and data compression minimized latency and accelerated page load times worldwide, driving higher user engagement and satisfaction.

By incorporating AWS WAF and ACM, the customer reinforced protection against malicious traffic, aligned with security best practices, and reduced the risk of downtime.

With Route 53 global DNS management and edge functions, the customer achieved a more reliable, scalable, and consistent digital experience—empowering them to support growth with confidence while maintaining trust across global markets.



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