



Managed Perimeter Security Service

Case Study

Piksel Group provide Managed Perimeter Security Service to protect eCommerce website for a high street retailer



Cloud Perimeter Security and the Retail Sector

Consumers are now turning to online shopping as their preferred channel, and in the UK it is predicted to contribute to more than half (53%) of the total retail sales in the next ten years. In order to retain customer loyalty and to remain successful as a retail business many traditional high street retailers recognise that the stability, availability, and security of their website is as important as the in-store experience.

Piksel Group provide a 24x7 managed service for a major UK high street retailer with an eCommerce website hosted on Amazon Web Services (AWS). With a reliance on the availability of this critical application, the customer wanted to ensure the security of the platform and so engaged the Piksel Group to evaluate and recommend viable solutions.

With more than 20 years of experience in delivering digital retail innovation through professional services, 24/7 cloud managed services, and ongoing optimization, and having worked alongside this customer for over 5 years, the Piksel Group team intimately understood the company's challenges





THE CHALLENGE

All-encompassing Cloud Security

To protect their eCommerce website the customer needed a comprehensive security solution, designed, configured and managed by cloud security experts.

Application level security

The solution also had to provide protection from potential application vulnerability exploits such as SQL Injection and Cross site Scripting (XSS).

Rapid Response to any attack

Effective monitoring, automation and support to provide immediate response and swift mitigation in case of attempted DDoS attack was identified as a key requirement

THE SOLUTION

Piksel Group Managed Perimeter Security Service

To address the need for a comprehensive cloud security solution, the Piksel Group team recommended implementing the Managed Perimeter Security Service, delivered in partnership with the **AWS DDoS Response Team (DRT)**. The service consists of a fully managed suite of AWS services combined to create a holistic solution, ensuring a solid and managed perimeter protection. The Piksel Group experts ensure the customer's perimeter is properly designed, configured, maintained, monitored, and managed end-to-end, with proactive, real-time support for any cloud security issue.



RESULTS

Since the service went live, there have been several attacks identified. By proactively tracking and blocking IP addresses showing suspicious activity, any major attack has been averted, and as a result, there have been no outages to the website caused by malicious activity or DDoS attacks.

With access to the AWS Global Threat Environment Dashboard, the customer has a view on the current threat level occurring across Amazon CloudFront, Elastic Load Balancing and Amazon Route 53 worldwide. This provides not only greater visibility of global threat landscape, but also the threats relevant to their applications.

By taking advantage of the Pikel Group Managed Perimeter Service to protect their critical AWS workloads the customer has the reassurance that their AWS resources are not only protected, but also that any changes to the threat landscape will be picked up by security scans and that Pikel Group will continue to monitor and adapt the safeguards provided by the AWS services to provide always-on protection.



WHO ARE PIKSEL GROUP?

The Pikel Group services a range of clients across the broadcast & media, telecommunications, retail, transport, public sector, faith and healthcare industries, and has been doing so for over twenty years. Our industry subsidiary organisations are focused on solving the challenges of and providing the services needed by these industries, be it cloud migration, the unification of analogue and digital workflows, technical design, development and implementation, peerless systems integration services or flexible, ongoing support and monitoring.

OUR APPROACH

Our teams utilise productised solutions, combinations of shrink wrapped, feature focused modules and bespoke software development, alongside a cloud-first approach, backed up by data centres across the world, to deliver the technology solutions our clients require. We discuss, whiteboard and prototype in a truly collaborative approach, working hand in hand with our clients from strategy through to delivery to ensure business goals are achieved.

STRATEGIC PARTNERSHIPS



As a long-standing AWS Advanced Consulting Partner, Pikel Group is committed to delivering first class AWS solutions. Our team of highly skilled architects and certified specialists have been deploying production solutions for customers since 2009. We have capabilities and experience across a wide range of AWS services, from core services like EC2 and S3 through to advanced Machine Learning services. In recognition of our expertise to deliver AWS Well-Architected reviews Pikel Group was among the early partner participants to be invited to join in the Well-Architected Partner program

Delivered by our teams of certified experts in Microsoft technologies, Pikel Group provide a wide range of Microsoft solutions, from Windows Virtual Desktop to Azure migrations. We hold Gold Cloud Productivity, Gold Cloud Platform and Gold Datacenter certifications. This means we can help our clients manage, migrate and optimise their Microsoft technology stack.

Microsoft
Partner



Gold Cloud Productivity
Gold Cloud Platform
Gold Datacenter
Silver Application Development
Silver Data Analytics
Silver Enterprise Mobility Management
Silver Security



Contact us for a free consultation or to find out more about our full portfolio of solutions and services.

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