Connected Mobility Built for Tomorrow

Empowering Secure Vehicle Connections for Safer, Smarter Journeys

aws partner network

Executive Summary

Askey, a global network communication and electronics manufacturing provider, adopts VicOne's xZETA cloud-based automotive vulnerability and SBOM management system, built on the AWS cloud, resulting in improved efficiencies and shortened vulnerability management **from six months to just two weeks**. According to YC Chang, Senior Director at Askey's Automotive Product Unit, "This enables Askey to continue driving innovation, reshaping the future of intelligent transportation for safer and smarter mobility."

Business Challenge
Running in Circles for Vulnerability Management

Askey's 5G C-V2X OBU and RSU system plays a crucial role in realizing the connected car future, serving as the central communication hub and safeguarding vehicle telematics and user identity. However, cybersecurity threats pose significant risks, including remote vehicle manipulation and data breaches. YC Chang, Senior Director at Askey's Automotive Product Unit, highlights challenges in meeting automotive security standards, necessitating adoption of ISO/SAE 21434 for vulnerability management. Previously, reliance on third-party consultants for vulnerability scanning led to time-consuming communication loops and inefficiencies, hindering timely issue resolution and product development. Addressing these challenges is crucial for maintaining market competitiveness and team morale amid pressing timelines.

Our Solution With AWS
Fueling Effective Development Through Effective Vulnerability Monitoring

To support Askey to growth, VicOne's automotive vulnerability and software bill of materials (SBOM) management system, xZETA, has it covered. xZETA is a SaaS platform built on the Amazon Web Services (AWS) cloud, which supports high-stability infrastructure and operation, so it enables Askey to easily upload firmware and handle tasks such as generating SBOMs and conducting extensive vulnerability scans automatically. xZETA facilitates automated scans and notifies of vulnerabilities, upholding a commitment to continuous monitoring.

Moreover, considering xZETA stores numerous customer vulnerability records. To address this concern, xZETA relies on AWS Key Management Service (AWS KMS) and AWS Secrets Manager to protect system credentials. This includes regularly updating sensitive information like private keys or API keys, implementing robust access control, and encryption measures to minimize the risk of unauthorized access. In the unfortunate event of an inadvertent data leak, AWS's encryption adds an extra layer of complexity, making it challenging for unauthorized parties to decrypt the exposed information.

xZETA utilizes Amazon S3 and Amazon Relational Database Service (RDS) for secure, reliable file storage and streamlined relational database management, enabling flexible management and cost-effectiveness while freeing up resources for application development.

Furthermore, to ensure an optimal user experience, xZETA leverages AWS's CDN service, Amazon CloudFront, accelerating content delivery by loading the website from nearby data centers, thereby improving website loading speed.
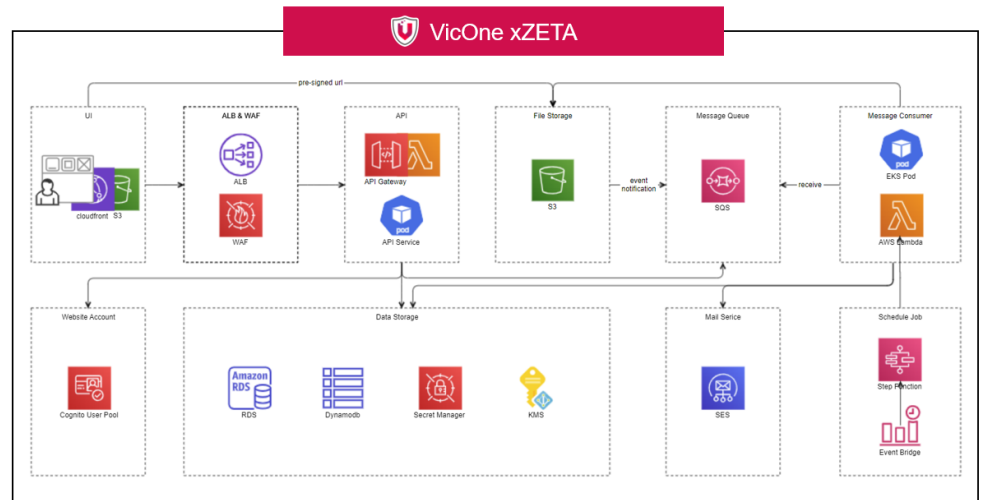
xZETA Architecture: Showcase which AWS technologies xZETA is leveraging.

Results and Benefits

Trust on the Road: Ensuring Secure Vehicle Connections

With VicOne, Askey can now use a fully automated vulnerability management platform and proactively identify potential exploitable vulnerabilities. Chang shares his experience: "The xZETA system delivers almost immediate results. After scanning for vulnerabilities, it offers actionable intelligence, like where to find patches or related information. This helps us swiftly pinpoint high-risk issues and plan mitigation, accelerating our product development efficiency. In a recent case, we went from vulnerability scan to patch deployment in just two weeks, a major improvement from the previous six-month time frame."

About VicOne

With a vision to secure the vehicles of tomorrow, VicOne delivers a broad portfolio of cybersecurity software and services for the automotive industry. Purpose-built to address the rigorous needs of automotive manufacturers, VicOne solutions are designed to secure and scale with the specialized demands of the modern vehicle. As a Trend Micro subsidiary, VicOne is powered by a solid foundation in cybersecurity drawn from Trend Micro's 30+ years in the industry, delivering unparalleled automotive protection and deep security insights that enable our customers to build secure as well as smart vehicles. For more information, visit: https://vicone.com/.