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WILLPORT Trust Secures Data in Transit with Eclypses During AWS Cloud Migration

Executive Summary

WILLPORT Trust set out to migrate their existing web applications to Amazon Web Services

(AWS) for its advanced infrastructure and security features.
It was also preparing to build its first mobile app for over 6,000 customers, including grantors, trustees, and beneficiaries. With the goal of allowing grantors to schedule and send funds to beneficiaries safely and securely from their preferred devices. To do that, they needed to ensure the protection of sensitive banking information in transit being shared between banks, organizations, and users.

Eclypses provided robust security for data-in-transit during WILLPORTS AWS cloud migration. Eclypses also secures data-in-transit for their mobile app, allowing WILLPORT's customers to securely send electronic inheritance, and for beneficiaries to receive and transfer funds all from the comfort of their own phones.

AWS Cloud Migration

To improve security, WILLPORT Trust moved from on-premises systems to AWS. They used a layered security approach, combining AWS's encryption tools with Eclypses' application-level protection.

WILLPORT deployed Eclypses in Amazon Elastic Kubernetes Service continue to leverage several other AWS Native Services in their new cloud architecture including ElastiCache for caching MTE state data and reducing latency and CloudWatch for application performance monitoring.

Manager, to secure environment and configuration variables such as API keys and database credentials. And finally, CloudWatch, for real-time insights into application performance and security events.

WILLPORT notes complete trust in the AWS Network and Security but also does not want to discount the material impact of human error. As it grows and acquires, it wants to make sure and avoid what happened to Capital One in 2019.

> "Security is my top priority as a founder," said Doris Schwartz, Founder and CEO of WILLPORT Trust."Eclypses encrypts data at the application layer, so even if the network is breached, data-in-transit remains secure."
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> "AWS provides encryption at rest and in transit, and Eclypses adds application-level encryption for even greater protection." Shwartz added.

This extra layer of security was crucial during migration and for protecting ongoing data flows, including user credentials, API tokens, and other sensitive information.

By working seamlessly with AWS, Eclypses reduced operational risks, mitigated common cyberattack methods, and offered strong anti-ransomware protection—all without affecting user experience.

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Challenges

- Protect sensitive data-in-transit during migration to AWS Cloud
- Meet tight deadline for launch of first mobile application
- Secure digital connections for increasing number of digital banking customers

Solutions

- Eclypses Deployment completed in under 3 hours
- Ensuring full data encryption during the AWS migration
- Ongoing encryption-in-transit securing all sensitive banking data

Results

- Immediate compliance with data protection laws
- Boosted trust and brand credibility with growing customer base
- Increased market opportunities with partners and clients

About the Customer

WILLPORT Trust provides affordable estate planning. Including the gradual electronic distribution of inheritance directly to beneficiaries. It has further streamlined the digital experience within their new user-friendly and secure patented app.

Speeding Time-to-Value

WILLPORT integrated Eclypses with AWS tools like SDKs, Amplify, and CloudFormation to develop their mobile app quickly. They completed deployment in under three hours, immediately protecting over 6,000 users.

Eclypses MTE technology works by Micro token Exchange. Meaning that Eclypses acting as a proxy that sits in front of an existing application within ECS, making no change to the application itself and yet immediately and effectively preventing man-in-the-middle, packet inspection, replay-and-delay injection, pattern recognition, and credential harvesting.

The MTE relay server is deployed within ECS and acts as an intermediary, securely decoding encrypted HTTP requests from client applications to backend services where MTE also sits. If a request comes from a non-MTE backed source, it will receive no response as MTE much be installed at both endpoints and only speaks to itself.

This rapid implementation addressed 7 out of 10 key data security vulnerabilities and 8 out of 10 API vulnerabilities. Allowing the team to focus on building innovative features.

Expansion Plans

Eclypses is designed to integrate seamlessly with future partners, leveraging API gateways and serverless components for flexibility. WILLPORT aims to expand Eclypses usage for secure bank-to-bank integrations, supporting potential partnerships with organizations like AMEX, KPMG, and Wells Fargo. For WILLPORT, as a newer brand, Eclypses is a competitive advantage. As WILLPORT can now guarantee that its business asset – the data – cannot be hacked even if intercepted.

They also have no fear of latency as they scale since Eclypses leverages AWS auto-scaling capabilities to handle fluctuating user loads without compromising performance.

About the Partner

Eclypses, is an APN-differentiated software partner and AWS Container and Security Competency partner. Revolutionizing data security in transit and at the edge. Its containerized security and non-patterned encryption ensure intercepted data remains useless to attackers. Securing tokens, credentials, and sensitive data.

Where traditional protocols are imperfect (leaving data exposed in plaintext during runtime) Eclypses encrypts at the application layer (Layer 7), using unique, one-time-use cryptographic values. Seamlessly integrating with AWS infrastructure and native services and delivering end-to-end protection without disrupting workflows or user experiences.

Following quantum-resistant Crystals-Kyber algorithm encryption. Eclypses is FIPS 140-3 validated. Futureproofing enterprise-grade security for application data, APIs, access management, and cloud migration to AWS.

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