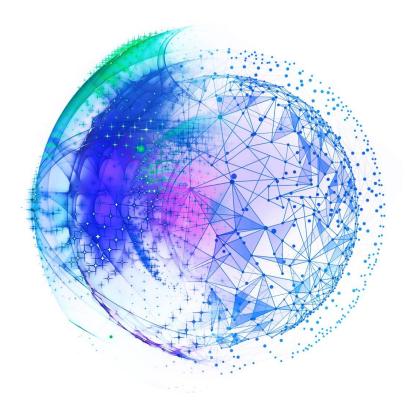
Deloitte.



Integrating a cloud security controls framework and automation control toolkits for SAP infrastructure within a food distribution company

CHALLENGE

A food distribution company embarked on a business transformation facilitated by SAP S/4HANA to meet emerging business challenges and strengthen their leadership in the food service industry.

APPROACH

Working from the client's requirements, Deloitte developed a solution implementation plan that integrates a cloud security controls framework with automation control toolkits to drive automated workflow management for tracking and approval of security requirements, and support defense against known threat actors.

OUTCOME

Our client improved their overall security posture with a state-of-the-art cloud infrastructure, enabling scalability for future growth while also leveraging the latest technologies to streamline processes and derive better insights.

Our client, a food distribution company, wanted to meet emerging challenges and strengthen their industry leadership through business transformation enabled by SAP S/4HANA. We worked closely with the client to uncover their requirements that would help with the implementation of automated workflow management for tracking and approval of security requirements, as well as helping against known threat patterns.

To enable this transformation, Deloitte assisted in developing and deploying:

- A cloud policy baseline for detective and automated corrective control sets
- Automated controls and continuous deployment pipeline
- Auto-remediation for priority
 Amazon Web Services (AWS) services,
 including automation and
 orchestration operational reporting
 dashboard
- Cloud infrastructure and application specific risk and remediation reports
- Cloud access security broker (CASB) architecture and design
- A system backed by technology and security experts monitoring 24/7 for Distributed Denial of Services (DDoS) attacks against AWS applications
- Application testing tools with developer's continuous integration/deployment (CI/CD) pipeline, bug tracking tool, and deployment process

Deloitte also delivered:

- A dedicated development team support for remediation guidance and review
- A firewall managed service designed to protect web-facing applications and APIs against common exploits
- Auto-remediation enhancements to address alerts of AWS infrastructure vulnerability scans
- Enhanced detective and corrective cloud security guardrails

State-of-the-art cloud

From these efforts, the client successfully transitioned to a state-of-the-art cloud infrastructure that provides scalability and innovative technologies that streamline business processes and provide better insights. The platform integrates cybersecurity risk and compliance, is fully automated with a zero trust approach that provides high reliability and provides additional agility to adapt to future business model requirements by allowing for future integrations.

Scope and complexity

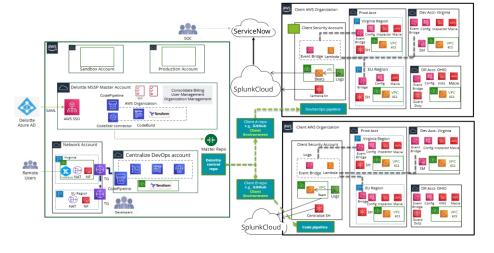
The project involved deploying, protecting, and managing:
 AWS EC2 instances
 AWS Firewall Manager
 Lambda
 AWS WAF
 AWS Advance SHIELD
GuardDuty encryption keys and certificate manager
 AWS Transit Gateway
 Prisma Cloud

Cloud compliance frameworks for privacy and data protection criteria that meet standards and regulations like HIPAA, ISO 27001, SOC2, CCPA, PIPEDA, MITRE ATT&CK, CIS AWS Foundations Benchmark v1.3, CSA CCM, GDPR, HITRUST CSF V9.3, NIST-800, SOC2, ISO27001, and PCI DSS v3.

Industry compliance frameworks: Palo Alto Networks firewall, TrendMicro, Cloudstrike, Okta ASA/SSO, Prisma Compute, Nessus, Hashicorp Key vault, ServiceNow, etc.

Cloud reference architecture | Cyber cloud managed services

Illustrative architecture for securely deploying AWS to support multiple enterprise applications and user base



Contact us:

Aaron Brown

Cyber Cloud Managed Services Leader Partner | Deloitte Risk & Financial Advisory Deloitte & Touche LLP

aaronbrown@deloitte.com

Fiona Williams

Advisory AWS Alliance Leader
Partner | Deloitte Risk & Financial Advisory
Deloitte & Touche LLP
fwilliams@deloitte.com

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