Case Study

Cloud
Challenge

nubeGo
Engagement

Realised
Benefits

Tools Used

nubeGo

www.nubego.io

auto protect group

AWS Config: Remediation Rules

AutoProtect provides insurance products and dealer warranties to vehicle manufacturers and retailers of all types throughout the UK, Europe and globally. AutoProtect hosts their applications in a hybrid environment including on-premises and AWS Cloud.

As a data-driven organisation, AutoProtect creates multiple Amazon S3 buckets in order to store customer data. With more than 8.5TB in 80+ Buckets, managing and securing this data became a challenge, more when new products and features are in testing or validation phases.

AutoProtect participated in a Well Architected Day by nubeGo which highlighted several areas that could be improved according to a comparison against AWS recommend best practices. With 30+ recommendations, they decided to engage with nubeGo to bring Governance and start building a framework which could be relied on for future growth. By adopting AWS Config and SSM Automation documents, nubeGo enabled a fully compliant, automated S3 data protection system as part of the NCMS Landing Zone MSP Service.
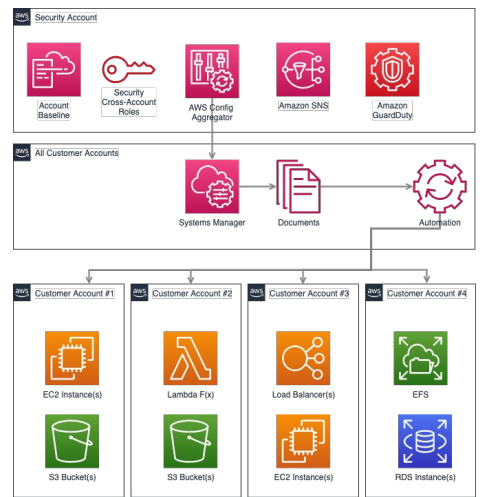
During the onboarding phase, AutoProtect found many of their buckets didn't have versioning enabled, and doing it manually would have taken valuable time which they invested in keep building the product.
Also, making sure no bucket has public read and writes ensure the data stored in there remains secured and encrypted using AES-256. AWS Config allows AutoProtect to continuously audit and assess the overall compliance of the AWS resources configurations with the organization's policies and best practices.

The entire NCMS security solution is based on AWS tools, and leverages AWS Security services like AWS Config, AWS Systems Manager and AWS Organizations Security Control Policies. With 65+ AWS Config rules, 20+ Security Control Policies and 10+ SSM Automation documents, when a new rule becomes non compliant, an automated remediation is executed within seconds. These remediations could be Lambda Functions or API calls to AWS Services. Currently it protects S3 buckets and patches EC2 instances using AWS Systems Patch Manager. AWS Config dashboard is built using an aggregator for the entire AWS Organization, providing a central view of compliance status.

As nubeGo is a VMware Partner, CloudHealth by VMware is enabled by default and configured as part of the customer onboarding.

> **Relying on an automated security remediation solution gave us the confidence and to build trust across the different areas of the organisation when building new products**
>
> Ian Gatley, Chief Technology Officer