

# Maximize AWS Security Posture at Scale through Automation



## Reduce Risk with Preventative & Detective Controls As A Service Through Control Broker

In the Financial Services industry, security of workloads and infrastructure is critical. One security misstep can lead to crippling regulatory fines and a loss of customer trust which impact revenue. By shifting security controls and guardrails left in the development and deployment process, companies can automatically catch and prevent security vulnerabilities before they put the organization at risk. Vulnerabilities need to be identified quickly by hooking preventative controls into every stage of the SDLC from the developer's IDE to the CI/CD build, test, and deployment stages to prevent risk. Additionally, maintaining security over the lifespan of the resource also needs to be addressed through identification with detective controls and then event-driven reactive actions are used to automatically remediate identified vulnerabilities. Vertical Relevance's Control Broker and rules engine module enables an organization to build tailored and customized rules and make them accessible as a service. Through preventative and detective controls, reactive actions, and the Control Broker an organization can be confident their infrastructure is secure through its entire lifecycle.



## Improve Visibility Of AWS Security Posture Through A Single-Pane-Of-Glass

As the emphasis on security in AWS increases, so do the number of proprietary tools and software products that claim to "solve" your organization's security concerns. While each of those products and services may do one thing, they often work in siloed manners and do not give a holistic view of an organization's security posture. Vertical Relevance's approach to security within AWS is to leverage AWS's security service Security Hub as the single pane of glass for all security events across your entire organization. We then build out custom integrations, using what we call custom aggregators, for services like Config rules, CI/CD pipeline integration, code scanning, etc. that all report into that single AWS Security Hub tool. By structuring all security events in the AWS Security Finding Format (ASFF) it can be ensured that all security events contain consistent and relevant properties that can be mapped out to demonstrate compliance with even the most stringent requirements (e.g., NYDFS, PCI, FINRA, etc.). From these events and incidents can be observed, responded to, and automatically remediated.

## Features



### Preventative Controls

We create custom preventative controls to ensure that infrastructure that does not comply with your organization's standards, never gets deployed in the first place. This comes in many shapes and sizes such as pre-deployment CI/CD IAC code validation, IAM restrictions, Service Control Policies, and many other mechanisms depending on your needs.



### Detective Controls

For existing infrastructure in your environment, we provide tooling to monitor for not only drift from initial compliant configuration, but also non-compliant configurations. When non-compliant infrastructure is detected, the necessary stakeholders will be notified, and reactive actions can be executed to remediate.



### Reactive Actions

Reacting and remediating to non-compliant infrastructure has never been easier. With the proper automated reactive actions in place, infrastructure that does not meet security requirements will be automatically remediated based in an event-driven manner via the events that are monitored within AWS's EventBridge.

## Vertical Relevance on AWS

AWS provides scalable, resilient and secure services that enable customers to build efficient solutions to meet their market needs. Vertical Relevance brings significant Financial Services and AWS technology experience to evaluate current and targeted capabilities against business goals and identify solution architectures and management processes to achieve those business goals. We partner with our customers to evaluate, prioritize and execute on programs to evolve their existing applications into cloud native solutions that are secure, reliable, perform efficiently, and are optimized for cost, while managed using best practices.

## Improved Security posture within AWS

With an automate everything security approach, operational overhead and risk are significantly reduced. In addition, organizational security for the first time is centralized for enhanced observability.



### Improved Visibility & Observability

With a single-pane of glass and centralization of security findings, organizations will have a holistic view of pressing security matters across a large and diverse AWS landscape.



### Improved Response Time

Through the implementation of reactive actions, issues can be automatically remediated and reduce the risk to the organization.



### Controls As A Service

Control Broker's service-based implementation enables organizations to implement their controls in a scalable manner across the entire AWS organization.



### Flexible by Design

Control Broker's rules engine is flexible and customizable, and rules can be reused across multiple and mediums.

## Industry Leading Security Platform for Financial Services



### Migrate away from manual

With the increasing scale of workloads in AWS, manual remediation is no longer a viable option. Remediation needs to happen instantly as event occur. With event driven responses to security risks, risks are mitigated as they happen, not when an engineer has time to investigate and resolve.



### Customer Piece of Mind

An investment in your infrastructure security is an investment in your customers and their data protection. An increased and automated security posture can give customers the peace of mind they're looking for when trusting their sensitive data with your organization.



### Improved Reliability

Security events can lead to application outages. By reducing the attack vector and number of security related events, outages can be reduced. In a world where customers expect their financial applications to be always available, this is a must.

## Get started with Vertical Relevance solutions on AWS

If you are looking to provide automation, consistency, predictability, and visibility to your software release process [contact us today](#).