CLOUDVISORY

CASE STUDY 04 | AEROSPACE INDUSTRY: NIST 800-171 COMPLIANCE

> **“Cloudvisory helped us meet several key requirements for NIST 800-171 Compliance. Equally, we have gained valuable insight into our cloud deployments, making them more agile and secure.”**

Helping Achieve NIST 800-171 Compliance

This company provides products, parts and services aimed at aviation and aerospace. Innovative inventory systems, immediate product availability and highly trained repair services are hallmarks of their success. Their customers are made up of both commercial and government entities.

Given multiple data breaches in the US Government over the last few years, the requirement for strong security measures to protect sensitive information from hackers has never been more intense. In an effort to address such security concerns, the National Institute of Standards and Technology (NIST) has released a list of recommendations for protecting sensitive federal information residing in non-federal systems. Referred to as Controlled Unclassified Information (CUI), contractors and service providers that process, store or transmit CUI on behalf of government entities must be able to demonstrate certain security controls. Controls govern many areas but include access control, configuration management, system integration, monitoring and protection. Given that this company services both commercial and government agencies, the need to establish clear separation between systems became a mandate.

With applications spread across multiple cloud providers and traditional data centers, this firm determined that several key controls were needed for their cloud systems in order to meet specific NIST 800-171 requirements:

1. Deny network communications traffic by default and allow network communications traffic by exception (i.e., deny all, permit by exception) through automated policy controls
2. Provide an automated way to clearly segment the workloads that service commercial entities and government agencies
3. Monitor the information system including inbound and outbound communications traffic, to detect attacks and indicators of potential attacks
4. Demonstrate they can provide protection from malicious code at appropriate locations within organizational information systems (i.e. stem the tide against the East/West threat)
5. Use automated mechanisms to correlate audit review, analysis, and reporting processes for investigation/response to indications of inappropriate, suspicious, or unusual activity.

Facing increasing pressure to prove compliance, this company went into the marketplace to find potential solutions that could assist in meeting these requirements. Through a detailed proof of concept, Cloudvisory was able to prove it could meet these above requirements one-for-one.

1. Cloudvisory discovered the existing infrastructure objects and data flows across all environments using this information to establish verifiable policies that are automatically monitored 24x7. Using cloud native security controls, these policies represent white-listed communications, denying all other communications by default
2. Micro-segmentation of commercial applications from government ones, creates clear separation of activity and communication
3. All inbound/outbound data flow and micro-segmentation policies set in Cloudvisory are monitored to detect abnormal behavior and potential threats.
4. As Cloudvisory monitors policies, the platform can detect, alert on, block and even quarantine malicious threats
5. Cloudvisory provides real-time visibility, detection and alerting along with integration to major reporting systems to assist with forensics into suspicious or rogue activity.

In addition to meeting their key requirements around cloud policy, monitoring and enforcement to address NIST 800-171 requirements, the company has experienced an increase in operational speed, a reduction in risk and lowering of operational costs using Cloudvisory’s Contextual Security Platform.

Reach out today for a demo and a test drive of Cloudvisory’s Cloud Security Platform

WWW.CLOUDVISORY.COM