

CASE STUDY

# Turbonomic, an IBM Company, Improves Business Continuity with Cyber-Resilient Recoveries

## About The Customer

IBM Turbonomic Application Resource Management (ARM) software is used by customers to assure application performance while eliminating inefficiencies by dynamically resourcing applications across environments.

## The Challenge

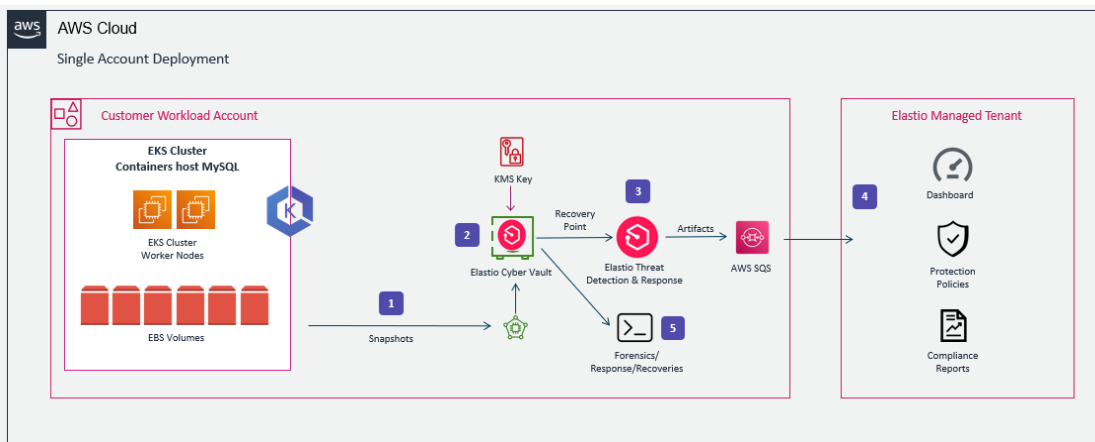
Trust is essential to IBM’s customers, and they expect services like Turbonomic to be highly available and secure. Building SOC2 controls was a fundamental part of the process because they ensured application security and availability. The data security controls would serve to protect the software stack against cyberattacks. The availability controls needed to include the ability to capture and back up all cloud resources dynamically while identifying and mitigating threats and predicting capacity requirements in real-time.

Turbonomic needed to automate the enforcement and reporting of these controls and continuously monitor its recovery risk posture. Moreover, they had to ensure that cyber threats were not reintroduced back into the production environment during a recovery operation.

## The Elastio Solution

The Turbonomic team is also responsible for managing ParkMyCloud. This cloud platform helps IT teams manage, govern, and optimize spend across AWS environments. It leverages a scale-out architecture based on Amazon EC2, Amazon EBS, and Amazon RDS MySQL.

Before the team deploys an application, it is first scanned for threats. Once it is in production, Elastio continually monitors, protects, and inspects the applications and data for detonated or undetonated ransomware and other forms of malware. It continuously evaluates the health of file systems to guard against these threats proactively. Elastio’s agentless component provides seamless protection for scale-out compute applications like PMC to ensure that every instance



and volume is continuously protected, scanned for threats, and retained for cyber-resilient recoveries.

1. Elastio auto-detects new and existing EKS worker nodes and creates a snapshot.
2. Elastio ingests snapshots into its ScaleZTM storage engine and globally duplicates and compresses the data.
3. The Elastio recovery point is scanned in real-time for ransomware, malware, corruption, and other factors that affect restorability.
4. Compliance reports, protection policies, and data security metrics and events are presented in a SaaS console.
5. If a cyber threat is detected and needs to be remediated, Elastio can provide historical context and reconstitute material information for forensic interrogation from its cyber vault. In one click, customers can easily recover entire instances, selected volumes, or individual files in a secure and isolated environment. Elastio is also designed to integrate with existing incident response procedures. It supports sending logs, events, and alerts to leading SIEMs.

The container-based application uses Amazon EKS and multiple persistent volumes to host the data, each backed up using Amazon's high-performance block storage service Amazon EBS. The application uses MySQL as its database platform, which is hosted in the container.

### **Outcomes and Benefits**

Elastio enabled IBM Turbonomic to couple security and backups into one solution, enabling recoveries to be more efficient and elegant. Because Elastio combines these functions into one, it eliminates manual effort and enables them to know with certainty what their security posture will be in the event of a need to restore from backups.

Elastio helps protect Turbonomic from replicating and copying data that is compromised unknowingly, impacting local recoveries and disaster recoveries. In doing so, it proactively mitigates the risks facing business continuity operations, such as downtime and data loss, while providing robust remediation and forensics for security teams.

### **About Elastio**

Elastio integrates with AWS Backup to continuously scan backups for threats, recovery testing them to ensure a successful restoration, and quickly identifying the last clean recovery point. Elastio is a Select Technology and Well Architected AWS Partner located in Reston, Virginia. AWS customers can contact [sales@elastio.com](mailto:sales@elastio.com) to set up a demo or download the product from [AWS Marketplace](#).