

Building an AI-Driven, Cloud-First Security Framework for a Global Metals Manufacturer

A global leader in silicon metal and ferroalloys serving high-growth sectors, relies heavily on digital infrastructure to manage distributed manufacturing and supply chain operations. However, legacy network architectures, fragmented governance, manual security processes, and weak cloud controls exposed the organization to significant vulnerabilities. Operational inefficiencies such as high false positives, manual investigations, and lack of automation led to delayed incident resolution.

Infosys partnered with the client to strengthen cyber resilience and operational integrity across its global ecosystem. Through network modernization, stronger identity security controls, cloud hardening, and AI-driven automation, Infosys transitioned the client to a proactive security posture that reduces risk, accelerates response, and safeguards critical assets. This ensured uninterrupted plant operations, improved compliance, and positioned the client to embrace digital innovation while mitigating threats in an increasingly complex industrial landscape.

Cyber Consulting & Advisory

Identity and Access Management

Cloud Security

Data Protection and Privacy

Governance, Risk and Compliance

Infrastructure Security

OT Security

Vulnerability Management

Threat Detection and Response

Managed Security Services

Key Transformation Highlights:



Threat Detection and Response

100% autonomous alert triaging, **3X** faster incident resolution with AI-powered workflows

38%

productivity improvement with human-AI collaboration

140+

use cases created and **15+** automation workflows implemented for automatic investigation and mitigation of security alerts



Infrastructure Security

50

legacy firewalls consolidated for centralized management and consistent security policies

15%

over-permissive and unwanted rules removed across 21 sites via firewall optimization



Identity and Access Management

150+

inactive accounts eliminated for enhanced identity security



Governance, Risk and Compliance

ISO27001

aligned governance



Vulnerability Management

55% ↓↓

reduction in open vulnerabilities by automating patching

38% ↑↑

increase in vulnerability coverage, enhancing visibility



Cloud Security

85%

security score maintained via multi-layered cloud security, protecting critical applications



OT Security

21

sites assessed identifying critical gaps and vulnerabilities in the OT environment