CASE STUDY

SQUARESHIFT

UNIFYING IT OPERATIONS: A SMARTER WAY TO TRACK NETWORK HEALTH

2x
PLATFORM PROCESSING SPEED

ZERO
SILENT DATA LOSS

~20K+ EPS
MAX INGEST RATE

CLIENT

A leading international branch campus enterprise managing a complex, multi-vendor network estate spanning wireless infrastructure, campus switching, perimeter firewalls, and power systems.

GEO: USA

EDUCATION & LEARNING

TECHNOLOGY STACK

elasticsearch

podman

KIBANA

Linux

logstash

PROJECT CONTEXT

- A major international higher education institution operated a complex campus network spanning hardware from multiple distinct vendors.
- Each hardware family generated activity logs in its own format, scattering critical information across isolated tools.
- The infrastructure team lacked a unified environment to search, correlate, or trigger alerts across these disconnected systems.
- This fragmentation created visibility blind spots and risks of data bottlenecks as the campus network expanded.

PROJECT OBJECTIVES

- Establish a centralized operational data platform to consolidate activity streams from all disparate hardware estates.
- Automate the identification and categorization of incoming data without requiring manual tagging by staff at the source.
- Standardize all incoming data into a uniform schema to function flawlessly across search, security, and monitoring applications.
- Deploy a resilient data architecture that the existing infrastructure team could easily operate without specialized expertise.

SOLUTION DELIVERY

- Designed a centralized "hub-and-spoke" data routing architecture that ingests all network traffic information through a single entry point.
- Implemented automated classification that maps incoming data against a master directory to route information to dedicated channels.
- Applied smart filtering to translate distinct vendor formats into a standardized schema while preserving the original raw message for compliance.
- Isolated data processing workloads by the vendor family to guarantee that a sudden surge in one system cannot overwhelm another.