TOP 30 GLOBAL BANK USES VEXATA FOR AI-BASED FRAUD DETECTION

Customer

Top 30 US-based Global Bank

Use Case

Fraud Detection using SAS Machine Learning

Challenges

- 4X Increase in transactions
- Current AFA did not scale throughput as transactions grew

Solution

Vexata VX-100F Scalable NVMe Flash Array

Results

- **75%** reduction in fraud detection time
- **3X** better transaction processing time
- **25%** the servers needed for transaction processing reduces processing cost

Massive Data Growth Driving Change

As a US-based global financial organization, the bank's fraud detection operation was experiencing a four-fold increase in digital transactions to over 4 billion per day, so in order to maintain risk avoidance, they needed a storage infrastructure that could deliver consistent performance levels.

Performance Challenge

This customer relies on SAS Fraud Management analytics, which uses embedded machine learning to detect anomalies in real-time. This SAS application requires a significant amount of throughput, but the AFA that the customer initially selected was not scaling to meet the growth in digital transactions, which forced them to consider alternative platforms.
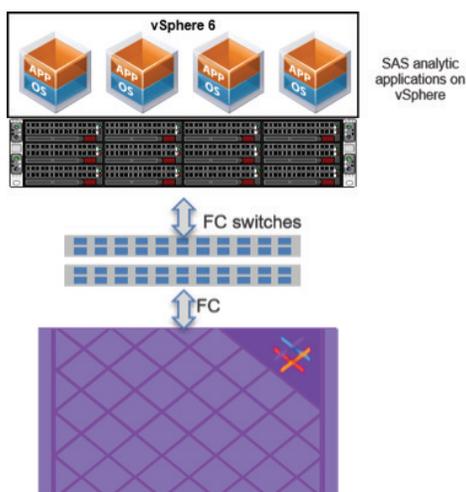
The Results

Vexata was contacted and presented a solution to this challenge, anchored by the Vexata VX-100F Scalable NVMe Flash Array. The VX-100F allowed the customer to utilize VMware ESX to reduce the servers required to deliver the SAS analytics performance while seamlessly scaling fraud detection capacity and performance.

When compared to their previous AFA solution, the customer found that even with server consolidation through VMware, the system accelerated transaction processing than previous benchmarks using 4X as many bare metal servers.

The customer also liked that they could scale capacity without impacting array performance, regardless of the data set size. Using the VX-100F they saw:

- **75%** reduction in fraud detection time
- **3X** better transaction processing time
- **25%** the servers needed for transaction processing reduces processing cost

Additionally, the VX-100F was future proof, it scaled performance as capacity increases, enabling the bank to support digital transactions growing 10X with the same SLAs as seen in today's 1B transactions.

"Vexata is the fastest array we have ever tested. Vexata runs faster on VMware then [our prior AFA array] ever did on bare metal."

About Vexata

Founded on the premise that every business is challenged to deliver cognitive, data-intensive applications, Vexata delivers 10X performance AND efficiency improvements at a fraction of the cost of existing all-flash storage solutions.