

CASE STUDY

Brazilian Bank Enhances On-premises and Cloud-based Network Security With Fortinet

BK Bank is a Brazilian financial services company. Founded in 2015, the bank started out in the meals voucher segment, before moving on to issuing prepaid credit cards and offering payment services such as card machines and e-commerce. In 2020, the company created Conta Digital BK, a digital account that today gives 20,000 users access to banking services including transfers, payments, and prepaid credit card management.

Advanced Security for a Demanding Business

As a financial services provider, information security has always been a top priority for BK Bank. Its clients and partners demand secure and available financial processes. To meet these demands, the company undergoes a global audit against the Payment Card Industry Data Security Standard (PCI DSS), which examines and certifies the security of banks' end-to-end credit card processing systems.

Before partnering with Fortinet, BK Bank used a mix of security tools. Nevertheless, the company received an average of 80,000 fraudulent intrusion attempts every five minutes. The bank was looking for a state-of-the-art solution that would minimize or eliminate these fraudulent requests. It evaluated a wide range of enterprise security solutions before selecting Fortinet. "Based on the problems we had, we realized that Fortinet's solutions were the right fit for our needs," comments Caio Hyppolito, CTO of BK Bank.

The company deployed the Fortinet FortiWeb web application firewall (WAF) to protect its critical web applications from attacks. It also installed two FortiGate Next-Generation Firewalls (NGFWs) to balance workloads and protect its communications. "Security is our primary concern," Hyppolito explains. "Having a partner like Fortinet that shares this view and offers innovative solutions is very important. We feel we speak the same language." With these two solutions, BK Bank was able to put a stop to fraudulent requests by leveraging automated tools that block malicious activity.

Today, the organization's network and applications traffic runs through the FortiGate NGFWs. Meanwhile, FortiWeb monitors for known and unknown threats and vulnerabilities on the company's business-critical web applications. BK Bank further benefits from FortiAnalyzer, which provides advanced log management, analysis, and reporting to help it proactively prevent attacks. The company conducted this security transformation with the support of Fortinet's partner, BeOnUp.

A Protected Cloud With High Visibility

Given the success of the Fortinet deployment, BK Bank turned to Fortinet Cloud Consulting Services to help migrate its operations to the AWS Cloud. One key goal for BK Bank was to ensure its cloud security model was compliant with all relevant industry regulations. With that aim in mind, the company asked Fortinet



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Details

Customer: BK Bank

Industry: Financial Services

Location: Brazil

Business Impact

- Secure, integrated network management and visibility
- Blocks almost all 80,000 fraudulent intrusion attempts the bank receives every five minutes
- Complete visibility into the cloud ecosystem for easier, more proactive operation management
- Integrated and dynamic protection for AWS Cloud environment

Cloud Consulting experts to evaluate, test, and validate the security technology within the AWS Cloud. “Fortinet’s Cloud Consulting team allowed us to guarantee scalability and growth, with no impact on performance,” says Hyppolito. Fortinet’s strong relationship with cloud providers like AWS ensures that customers like BK Bank have robust and agile protection even in multi-cloud environments.

The bank also implemented the FortiCNP (Cloud Native Protection) solution in its cloud infrastructure, achieving greater visibility into its cloud-hosted applications. Cloud service providers do not usually provide customers with deep levels of information on their platform’s functionality or information flows, which in the case of BK Bank can number up to 150,000 requests per day. Furthermore, errors in the system or availability issues would simply go undetected. “Now, with FortiCNP, we have a tool that provides complete cloud visibility,” says Hyppolito. “Fortinet gives us insight into how to fix configurations that fail to meet best practices.”

The system also enables BK Bank to comply with regulatory standards for financial companies. For instance, PCI DSS certification requires that the company regularly monitor the network for inactive users. Previously, BK Bank had to perform a manual check of each user to see who had not logged in during the past 90 days. With FortiCNP, the bank receives an instant report of which users do and do not meet the 90-day rule, helping the IT team immediately identify the accounts that need to be removed.

An Integrated, Easy-to-Manage Platform

Fortinet provides BK Bank with an integrated information security ecosystem that provides full visibility into its network—both on-premises and in the cloud. With its legacy security suite, BK Bank was alerted to specific security concerns, but it was not given the complete view of network and applications. With Fortinet, all security tools are integrated, giving the bank a comprehensive overview of the IT architecture and its connected devices. What is more, the network is now managed from a single place using one pane of glass. “Integrated Fortinet solutions give us broad visibility, which provides for far easier and more proactive network management. This helps us improve all business processes,” concludes Hyppolito.

Solutions

- FortiGate Next-Generation Firewall
- FortiWeb
- FortiAnalyzer
- FortiCNP
- Fortinet Cloud Consulting Services

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