



## Driving Continuous Cybersecurity for a Resilient Future for a Leading Banking Institution in Texas, US

### Overview

A Texas-based banking institution with \$9.4B in assets and 40+ branches aimed to strengthen its cybersecurity to support growth and evolving threats. Despite existing investments, it struggled with continuous monitoring, endpoint protection, and proactive threat response without disrupting operations. By adopting a managed security approach powered by XDR, the bank achieved 24x7 monitoring, improved endpoint security, and enhanced threat detection. This enabled it to maximize existing investments, maintain seamless operations, and build a scalable, resilient cybersecurity framework aligned with regulatory and business needs.

### Challenges

The bank faced several operational and security challenges while attempting to strengthen its cybersecurity posture. Identifying a reliable Managed Security Service Provider (MSSP) capable of delivering continuous monitoring was a primary concern. At the same time, the organization needed to optimize its existing security investments without disrupting production environments. Proactive incident response planning and security testing were limited, and deploying Endpoint Detection and Response (EDR) solutions without downtime – especially after antivirus expiration – posed significant risks. Additionally, ensuring secure deployment of EDR policies across servers and corporate environments without requiring UAT added further complexity.

### AT A GLANCE

#### CHALLENGES

- Finding the right MSSP for real-time monitoring
- Integrating existing security tools effectively
- Limited proactive incident response and testing
- Deploying XDR without disruption

#### SOLUTIONS

- Managed security services with XDR
- 24x7 monitoring, threat hunting, response
- Seamless EDR with existing antivirus
- Centralized logs and compliance reporting

#### RESULTS

- Stronger security with integrated tools
- Improved endpoint protection
- Better threat detection and response
- Scalable security across locations

#### BENEFITS

- Enhanced cyber resilience
- Better ROI on existing tools
- Reduced operational risks
- Improved compliance and visibility



## Solutions

To address these challenges, a comprehensive managed security approach powered by XDR was implemented. The solution provided continuous 24x7 monitoring, threat hunting, and incident response capabilities across the bank's server infrastructure. EDR sensors were deployed to enhance endpoint protection, ensuring seamless integration with existing antivirus solutions. The architecture was further scaled across multiple locations using AI and ML-driven capabilities, enabling advanced threat detection. Additionally, centralized log management and compliance reporting streamlined visibility and strengthened regulatory adherence.

## Results

The implementation significantly improved the bank's cybersecurity operations by enhancing threat detection, monitoring, and response capabilities. Continuous monitoring ensured faster identification and mitigation of threats, while EDR integration strengthened endpoint security across the organization. The expansion of the security architecture across locations improved scalability and consistency, and advanced analytics using AI and ML enabled more accurate threat detection. Additionally, enhanced log management improved compliance readiness and operational visibility.

## Why Black Box?

This transformation highlights why financial institutions trust Black Box as their cybersecurity partner. By combining XDR with 24x7 managed services, Black Box enabled continuous monitoring, seamless endpoint protection, and proactive threat response without disrupting banking operations.

For this Texas-based bank, Black Box delivered more than technology – optimizing existing investments, strengthening compliance, and ensuring operational continuity. With deep BFSI expertise and a focus on scalability and resilience, Black Box helps organizations enhance visibility, reduce risk, and stay ahead of evolving cyber threats while supporting long-term business growth.

Black Box® is a trusted IT solutions provider delivering cutting-edge technology products and world-class consulting services to businesses across the globe in every industry. The breadth of our global reach and depth of our expertise accelerate customer success by bringing people, ideas, and technology together to solve real-world business problems.