



Appknox Case Study

Elevating mobile app security for a global airline with a focus on eliminating fragmented security

Overview



Challenge

The leading global airline's critical security challenge was fragmented security visibility owing to then-existing ineffective security tools which increased the risk of data breaches and operational inefficiencies making it crucial for them to look for a more robust solution.



Solution

The airline adopted Appknox, an all-inclusive automated vulnerability assessment platform, to streamline security testing and provide real-time insights.

Appknox's platform offered centralized security visibility and advanced threat detection significantly improved the airline's ability to proactively protect their application portfolio of over 100 apps.



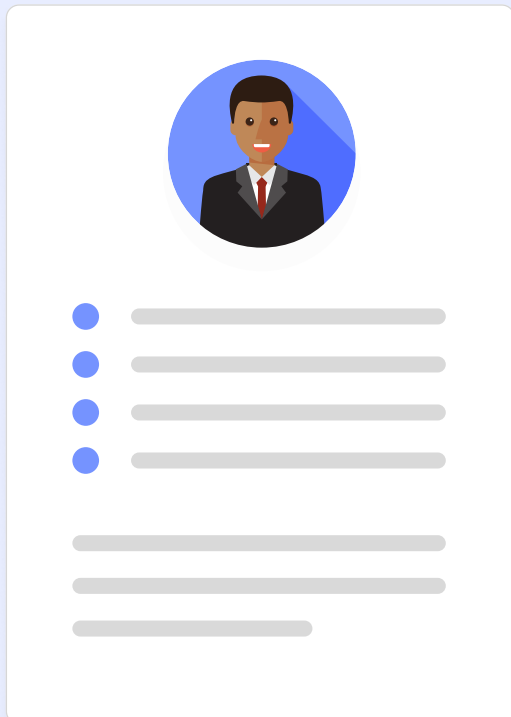
Results

With Appknox, the airline deployed a comprehensive security solution that enhanced control over data confidentiality and improved response times. The platform's vulnerability assessment capabilities reduced the time and effort required for security checks and compliance audits, leading to faster development cycles and better overall security posture.

What Appknox helped achieve

- 01 Automated reporting, and remediation guidance lead to faster development cycles and improved time-to-market and 25% faster development cycles
- 02 Proactive identification and patching of vulnerabilities with 50-70% reduction in vulnerability detection time.
- 03 Pay-as-you-go model resulted in savings of 20% on infrastructure costs.

Client profile



INDUSTRY

Aviation

SERVICE LOCATION

Global

HEADQUARTERS

Singapore

REVENUE

\$13 Billion

EMPLOYEES

17000+

SECURITY TEAM SIZE

5-10



About the company

The premier global airline based in Singapore, is renowned for its exceptional service and operational excellence. With a vast network covering over 130 destinations across the globe, the global airline flies about 37 million passengers and operates over 3000 flights weekly.

It is dedicated to providing a world-class travel experience while upholding the highest standards of safety and customer satisfaction.

The challenges

The airline, a global player in the industry, struggled with fragmented security visibility due to outdated security tools that compromised its defense capabilities. This led to an attack and possibilities for more if not remediated immediately, leading to customer dissatisfaction, increased costs, and potential data breaches.



Here's a list of some of the top challenges faced by the PSP.



Faced credential stuffing attack incident

Credential stuffing attack on the airline's mobile application compromised user accounts, leading to frequent customer lockouts and significant customer dissatisfaction. This posed a security threat, increased customer support costs, and negatively impacted brand reputation.



Fragmented security visibility

Relying on multiple, disconnected security vendors created blind spots, making identifying and addressing security gaps across the mobile application ecosystem difficult.

This increased attack risks and slowed development due to the need to manage and integrate vulnerabilities detected across multiple scans from various vendors.



Expensive and ineffective security tools

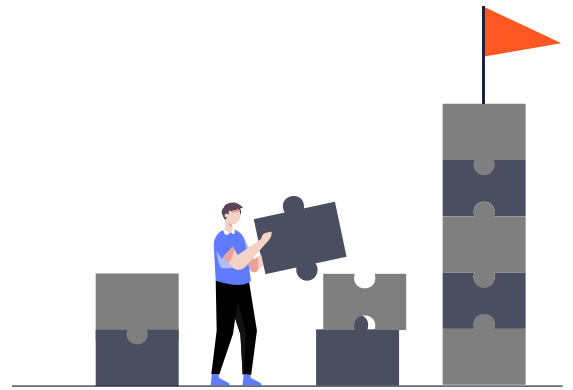
Despite significant investment, existing security tools and processes failed to prevent sophisticated attacks during development or in real time.

This left the airline vulnerable to attacks, suggesting inadequate security solutions or processes and potentially leading to data breaches and other incidents.

The solution

To overcome its critical security challenges, the airline turned to Appknox for a comprehensive solution.

Appknox's platform offered centralized security visibility, advanced threat detection, and robust security tools to effectively protect their mobile applications and enhance overall security posture.



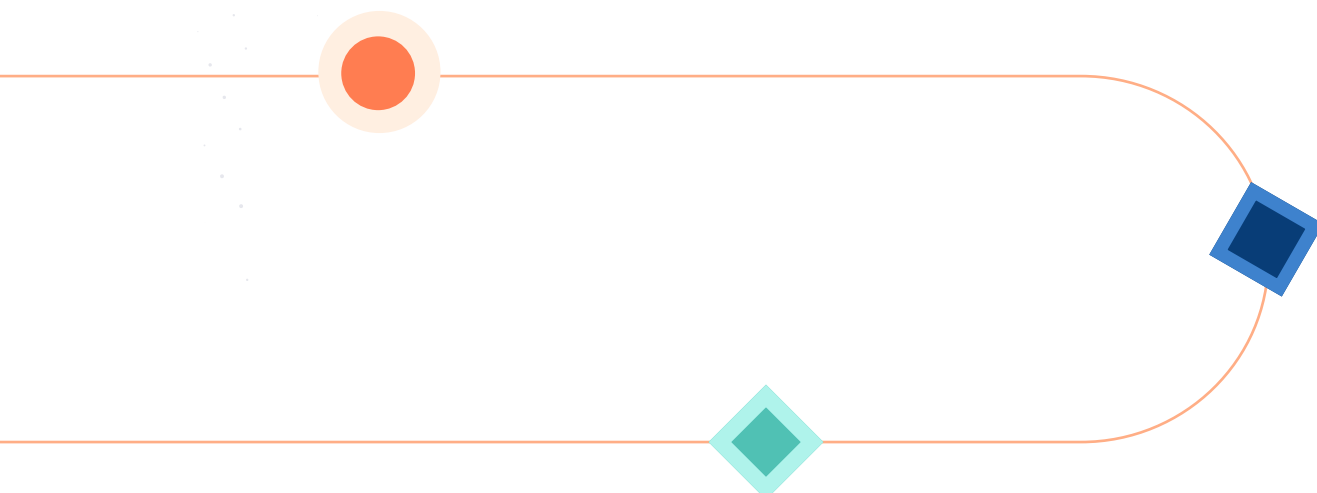
Centralized security posture visibility

Appknox provided a unified security platform that consolidated findings, eliminating blind spots and offering comprehensive visibility. Appknox's precise and descriptive reporting also categorized the risks of each vulnerability into high, low and medium that helped in effective identification and resolution of security gaps across the mobile application ecosystem.



Advanced threat detection and prevention

Appknox's comprehensive threat detection capabilities effectively mitigated credential stuffing attacks by identifying and blocking suspicious login attempts. This reduced the risk of compromised accounts, minimized customer lockouts, and enhanced customer trust and satisfaction.



The impact

After integrating Appknox into the security assessment workflow, the global healthcare firm could add Appknox's robust vulnerability assessment capabilities and detect 200 vulnerabilities within the first 90 minutes spent on each application.



Parameter	Before Appknox	After Appknox	Savings
Testing technique	Multiple, disconnected security vendors, created blind spots	Unified security platform with centralized visibility with comprehensive identification and resolution of security gaps	50% reduction in security gaps
Time and effort	Security checks slowed down development and releases	Seamless SDK integration, automated reporting, and remediation guidance lead to faster development cycles and improved time-to-market	25% faster development cycles
Cost	On-premise installations required upfront investment	Scalable cloud-based solutions, and pay-as-you-go pricing helped save upfront infrastructure costs	20% cost savings on infrastructure

KEY INSIGHTS

51

Vulnerabilities in 1st Scan

341

Applications Analysed

15

Critical Scan



Appknox team provided a quick resolution of our technical support requests with less than 8 hours TAT

-Senior security researcher - Singapore Airlines

The Appknox advantage

Appknox is an enterprise-grade security platform that helps developers, security researchers, and enterprises build a safe and secure mobile ecosystem faster with automated security checks.

THE APPKNOX IMPACT

<90 mins

comprehensive automated VA

<1%

false negatives

8+

compliances

Trusted by Gartner, loved by enterprises

- ✓ Recognized in Gartner Peer Insights Voice of Customer
- ✓ Gartner Hype Cycle for Application Security
- ✓ Gartner Notable Vendor

**Unleash the power of
superior scalable security
with Appknox today.**

Scan now to speak to a cybersecurity expert

