



Appknox Case Study

Streamlining security for 100+ mobile apps at a leading Indian bank

Overview



Challenge

Our customer was faced with the following business challenges:

Improving the security protection of their products without disrupting the current SDLC process.

Reducing the probability of a security issue that could delay shipping of new versions.



Solution

Integrate IAST into the customer's existing A process and leverage automatic, manual and sanity tests to extend Application Security Testing (AST) coverage and transform DevOps to DevSecOps.

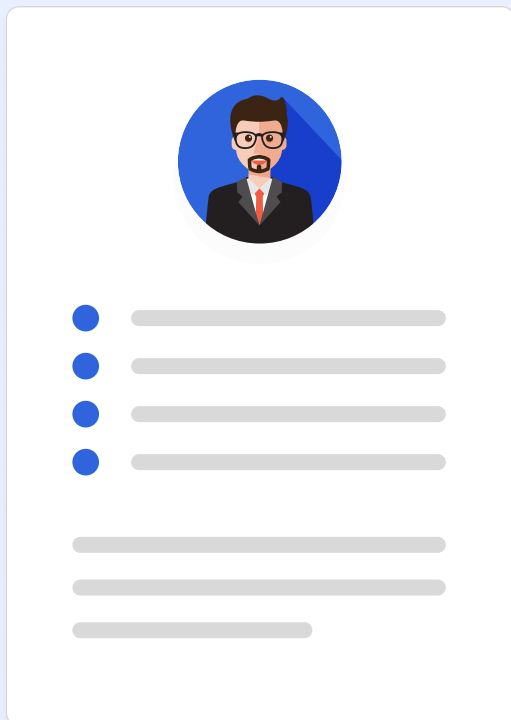


Results

Improved AST coverage and remediation processes, due to informative records of security issues such as full call stacks and exploit examples that are reported by the IAST agent.

What Appknox helped achieve

- 01 Save 90% time spent on manual vulnerability detection
- 02 Reduce unnecessary vulnerability remediation by focusing on high-impact threats and <1% false positives
- 03 Streamline compliance testing with standardized processes and reduced compliance audit preparation time by 75%.



Client profile

INDUSTRY

Financial Services

SERVICE LOCATION

Global

HEADQUARTERS

India

REVENUE

\$23.272B

EMPLOYEES

130000+

SECURITY TEAM SIZE

20-30



About the company

Headquartered in India, this Fortune 2000 enterprise holds a significant presence and influence in the Financial Services industry.

They are India's leading private limited bank with over 5000 network branches across the nation and are widely recognized for their comprehensive range of services, innovative products, and customer-centric approach, making them a preferred choice for millions of individuals and businesses.

The challenges

Catering to customers nationwide, the banking institution plays a pivotal role in key industries and business sectors. As it continues to shift towards an online presence, mobile applications emerge as crucial touchpoints for both sales and customer service.

Therefore, ensuring the security of these applications becomes an absolute necessity for the institution.

Here is a list of some of the top challenges faced by the bank.



Portfolio of 100+ mobile apps

Efficiently managing a large portfolio of 100+ mobile applications was difficult and time-consuming making it important to have a solution that can help them automate tasks and improve efficiency.



Modification requirement for detection

The existing tool required application modifications solely for vulnerability detection, causing potential disruptions and inefficiencies in the workflow, making it costly and time-consuming.



Absence of on-premise services

Internal SOPs, compliances, and regulations mandated a private device farm for testing applications. The previous service provider lacked on-premise deployment, necessitating reliance on cloud services, and conflicting with governance.



Fragmented view of vulnerabilities across the ecosystem

Gaining clear and comprehensive visibility into vulnerabilities across all applications was one of the major struggles. All of the vulnerabilities in the application portfolio couldn't be viewed in one place.



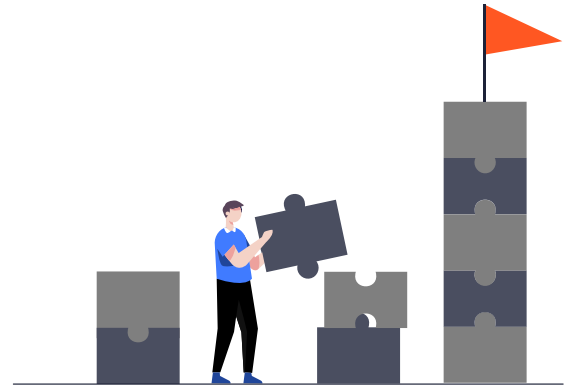
Masked status of criticality and context

The lack of a unified view made it difficult to identify vulnerabilities that were the most critical and needed to be fixed first making it difficult to remediate.

The solution

Managing the security of hundreds of mobile apps can be daunting coupled with challenges like scaling vulnerability detection, adhering to internal protocols, and maintaining code integrity. The bank was on the lookout for a robust on-premise solution.

Appknox's automated vulnerability assessment tool and manual pen-testing with a private device farm empowered them to identify potential security risks and remediate them.



Scalable application portfolio management for 100+ applications

Appknox's automated platform efficiently analyzed vulnerabilities across 100+ apps within the same platform thus streamlining workflows and saving management time.



Contextual risk management

Appknox prioritized vulnerabilities based on actual exploitability, impact, and context within the app ecosystem. This data-driven approach helped focus on the most critical issues first, optimizing security efforts.



Compliant device farm setup with on-premise deployment

Appknox set up a managed private device farm within the bank premises that aligned with their internal SOPs and government regulations, eliminating the need for external cloud-only solutions and ensuring rigorous compliance testing.



Unified vulnerability dashboard

Appknox's comprehensive, centralized dashboard showcased the security posture of all the apps in real-time, prioritizing vulnerabilities, and tracking remediation progress. The specialized dashboard designed for CISOs highlighted top issues and reduced collating efforts.



Non-intrusive vulnerability detection with binary-based testing

Appknox scanned apps without code modifications, avoiding compatibility issues and preserving the original codebase and seamlessly integrated with the build process for continuous security checks.

The impact

After integrating Appknox in late 2020 in the security assessment workflow, the bank was able to add **Appknox's robust vulnerability assessment capabilities** and detect a total of **700 vulnerabilities** within the first 90 minutes spent on each application.



Parameter	Before Appknox	After Appknox	Savings
Time	Manual scans across 100+ apps made it time-consuming and error-prone	Focus on remediation instead of lengthy manual scans	Saved 90% of time spent on manual vulnerability detection
Compliance	Lack of visibility and posed difficulty in ensuring security.	Streamlined compliance testing with standardized processes	Reduced compliance audit preparation time by 75%.
Effort	Disruptive code modifications lead to risks and delays	Continuous security without development disruptions	Save 60-80% of development time and resources
Efficiency	Fragmented view hindered visibility and prioritization	Prioritize critical threats and optimize remediation efforts across the app portfolio	Improve vulnerability identification and remediation accuracy by 30%
Productivity	Difficulty prioritizing vulnerabilities based on actual exploitability context	Address the most critical risks first and maximize security ROI	Reduced unnecessary vulnerability remediation costs by 50% by focusing on high-impact threats and <1% false positives

KEY INSIGHTS

341

Vulnerabilities in 1st Scan

51

Applications Analysed

15

Critical Scan



One of the most striking advantages we've observed is the seamless integration of Appknox with our existing systems.

- Chief Manager, Fortune 2000 Bank

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

Comprehensive automated VA

<1%

false negatives

8

More than 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.**

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