



CASE STUDY

Simplifying Security for Indonesia's Largest Retail Bank.

About the Customer

Bank BRI serves over 30 million retail clients through 8,600 branches. It was the first bank globally to launch its own satellite, BRI-sat, to connect remote regions, symbolizing its commitment to innovation and inclusivity in banking.

Client Background

Client Name

Bank Rakyat Indonesia (Bank BRI)

Industry

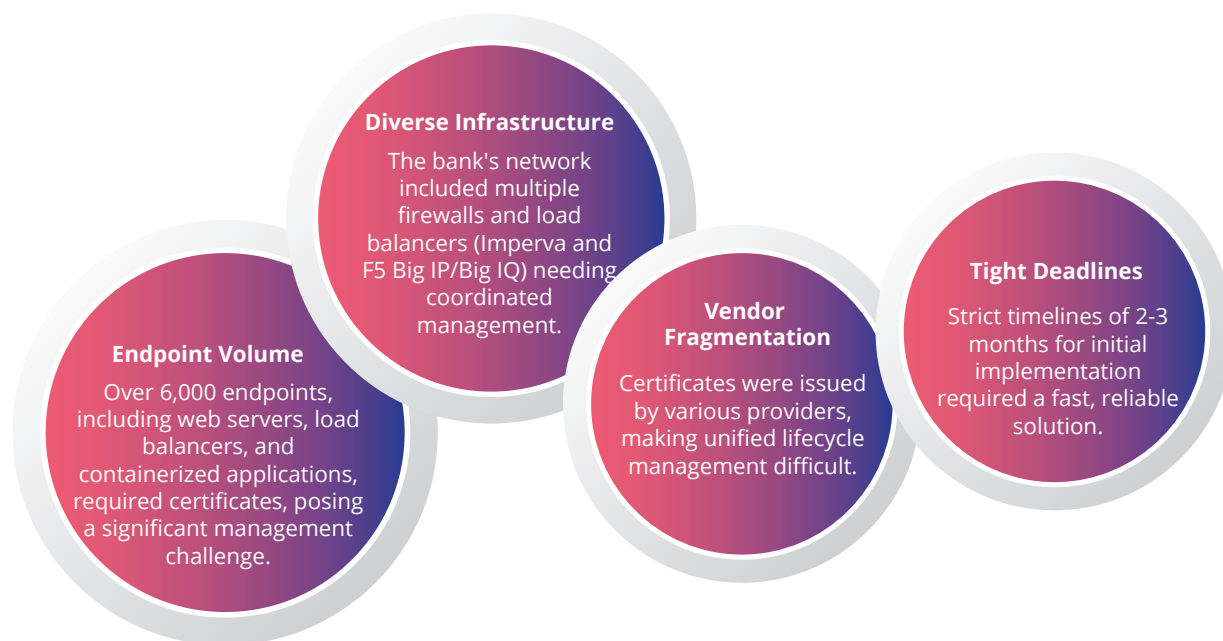
Banking

Location

Indonesia

Business Scenario

Bank BRI's complex digital infrastructure presented multiple challenges:



eMudhra Solution

Solution Provided: CERTInext Certificate Lifecycle Management (CLM)

CERTInext's solution was tailored to meet Bank BRI's diverse needs, seamlessly integrating with existing infrastructure, including Imperva and F5 firewalls, and supporting Digicert certificate issuance. The platform's advanced endpoint discovery tools ensured that over 6,000 endpoints were accounted for, laying the foundation for a unified management approach.

CERTInext enabled phased implementation, starting with the most critical endpoints, while providing custom reporting and real-time notifications. This phased approach ensured compliance with tight timelines, allowing the bank to validate capabilities at each milestone. eMudhra's deep domain expertise and agile methodology ensured that even complex integration requirements were met effectively.

Key features included:



Seamless Integration: Integrated with Imperva and F5 to centralize certificate management across firewalls and load balancers.



Flexible Issuance: Supported certificate requests with both new and existing SSL keys, enhancing flexibility.



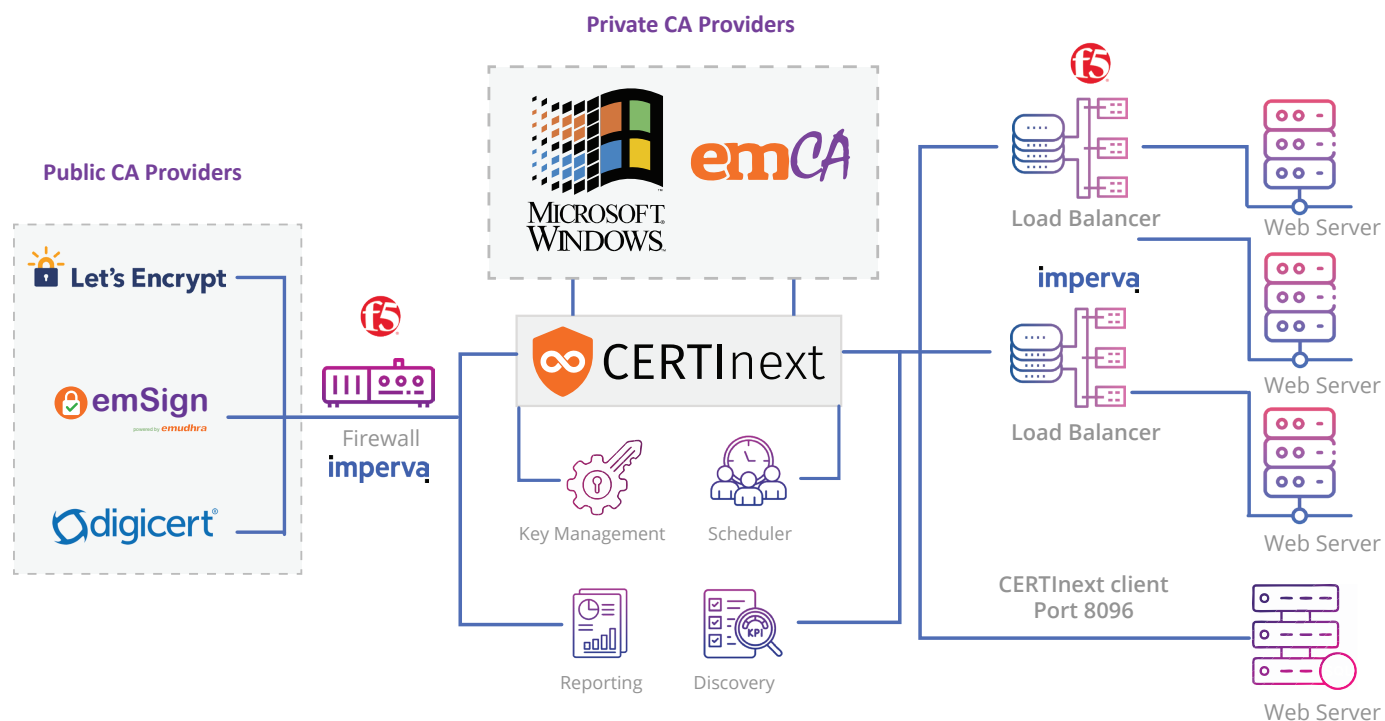
Automated Discovery: Identified endpoints using IP/domain, API calls, and load balancer data.



Custom Reporting: Provided customized expiry reports and automated notifications, ensuring proactive management.

Solution Architecture

CERTInext was deployed to support phased integration with BRI's diverse architecture, enabling centralized management for both public and private certificates.



Implementation Process



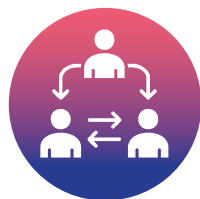
Requirement Analysis

Worked with Bank BRI to map their architecture and processes.



Customized Development

Developed APIs and enhanced product features to meet dynamic requirements.



Phased Implementation

Demonstrated key milestones through POC phases to validate capabilities.

Use Case

- Streamlined management of over 2,000 endpoints in the first phase.
- Enhanced integration with application firewalls and load balancers for secure deployments.

Value Add to Customer

- **Operational Efficiency:** Automated certificate management processes reduced manual efforts by 60%, allowing the IT team to focus on core functions.
- **Enhanced Compliance:** CERTInext ensured adherence to banking regulations through audit-ready reports and secure configurations.
- **Cost Optimization:** Streamlined operations reduced annual certificate management costs by approximately 30%.
- **Risk Mitigation:** Continuous monitoring and automated notifications eliminated risks of certificate expiration, ensuring seamless customer experiences.
- **Scalable Architecture:** CERTInext's flexibility allowed BRI to expand endpoint coverage from 2,000 to 6,000+ endpoints seamlessly.

CERTInext's deployment at Bank BRI marked a significant shift in how the bank managed its certificate infrastructure. The comprehensive integration across diverse firewalls and load balancers provided a unified approach, enhancing the security posture of one of Indonesia's largest and most complex banking networks. By aligning certificate management with operational needs and regulatory requirements, CERTInext enabled Bank BRI to deliver secure, reliable, and customer-centric digital services, reinforcing its reputation as a technologically forward-thinking financial institution.

Conclusion

CERTInext delivered an integrated, scalable solution for Bank BRI, addressing the challenges of managing a vast and diverse certificate ecosystem. By automating certificate issuance, renewal, and monitoring processes, eMudhra enabled the bank to meet regulatory requirements, reduce operational costs, and enhance security. The implementation highlighted eMudhra's ability to deliver value in a high-stakes environment, reinforcing Bank BRI's reputation as an innovative leader in financial services and setting a standard for secure digital banking in Indonesia.

About eMudhra

eMudhra is a global leader in digital trust, specializing in secure certificate lifecycle management, identity solutions, and digital transformation. With a strong focus on innovation and compliance, eMudhra helps businesses streamline their security frameworks, scale their operations, and foster trust in digital ecosystems. CERTInext is a testament to eMudhra's commitment to enabling secure and efficient certificate management across diverse industries.