



Red Hat

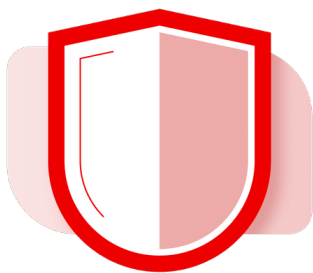
FORTYTWO
SECURE TODAY. FUTURE READY.

Strengthen digital banking security with Fortytwo and Red Hat OpenShift

Digital banking complexity is accelerating risk, cost and compliance pressure

Across retail and corporate banking, institutions are under increasing strain to protect growing digital ecosystems while meeting tightening regulations. Banks must deliver strong authentication, MFA, step-up verification, and transaction integrity, all without adding friction for millions of daily users.

At the same time, fragmented identity and security stacks increase cost and complexity, with multiple vendors and disconnected tools slowing integration and delivery.



Technology Used

- Red Hat OpenShift
- Fortytwo's quantum safe authentication and MFA platform
- Identity, token, cryptography and integration components running on OpenShift clusters

Fortytwo and Red Hat: a quantum safe, high-scale authentication platform

Fortytwo delivers an integrated authentication platform that provides certificateless mutual authentication, dynamic OAuth tokens, granular access controls, cryptographic services, and strong multifactor authentication. When deployed on Red Hat OpenShift, the platform achieves the scale, resilience, and operational consistency required for modern banking.

- **Certificateless and Passwordless authentication:** No PKI complexities or key management overhead
- **Strong MFA:** SMS, email, QR code, push notifications, and Face ID with advanced liveness detection
- **Adaptive Authentication:** Adjusts challenge level based on contextual risk signals
- **Transaction signing and integrity:** Transaction signing, per-transaction approval flows, and OAuth transaction tokens
- **Token based credential protection:** Dynamic, tamper-proof payloads and replay attack prevention
- **Flexible integration:** No code adapters for AD/ADFS and standards-based enterprise integration
- **Quantum safe cryptography:** Protection against all current and emerging cryptographic threats
- **White label authenticator app:** Supports a wide range of user experiences and authentication factors

Traditional multi-vendor authentication versus Fortytwo on OpenShift

Traditional multi-vendor authentication	Fortytwo on Red Hat OpenShift
Multiple tools for MFA, tokens, crypto, API security	Consolidated platform for authentication, MFA, token management and crypto
Certificate-heavy architecture	Certificateless, quantum-safe authentication
High integration costs and operational overhead	No-code adapters, standards-based integration
Limited scalability	Proven at 5,000+ TPS and with over 26 million users
Complex compliance management	Unified controls simplify audit readiness
Typically 1-2 factors in legacy stack	Full range (push, QR, SMS/email OTP, Face ID with liveness, offline token, passwordless)



Success story: A leading Indian private-sector bank

We helped an Indian bank modernise its digital authentication environment by deploying our quantum safe platform on Red Hat OpenShift, supporting more than 26 million users and securing over 100 million transactions per day. The bank faced tightening regulatory expectations from India's RBI, Singapore's MAS, and Hong Kong's HKMA, while its fragmented mix of authentication tools added cost and complexity and struggled to scale to thousands of transactions per second.

By consolidating onto Fortytwo's certificateless platform on OpenShift, the bank reduced TCO by up to 50 per cent, accelerated integration with no code adapters, and achieved proven performance scaling from 2,000 TPS to more than 5,000 TPS in production. The solution has been live since 2022, delivering secure, frictionless digital experiences at national scale.

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. A trusted adviser to the Fortune 500, Red Hat provides award-winning support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organisations grow, transform, and prepare for the digital future.

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