KEYFACTOR

IBM **Consulting**

Clarity in cryptography. Control over risk. Readiness for the quantum era.

Challenge:

Cryptography every-where, visibility nowhere

Most organizations are flying blind. All crypgoraphic assets live across workloads, legacy apps, devices, networks, and pipelines, all owned by different teams and managed with different processes.

The result is predictable: outages, audit findings, and silent vulnerabilities that accumulate faster than teams can respond. Regulatory pressure increases the stakes. PQC timelines compress them even further. When teams lack clarity and control, every business initiative — from cloud migration to compliance — inherits unnecessary risk.

The Solution:

Unified visibility and quantum-safe transformation

Keyfactor establishes the foundation for cryptographic clarity by continuously discovering cryptographic assets across every environment. Automated lifecycle operations, modern PKI, and centralized signing turn scattered, inconsistent processes into a predictable system that security and infrastructure teams can trust. IBM Consulting brings the strategy, governance, and enterprise-scale execution required to evaluate posture, prioritize risk, and guide organizations through modernization with structure and precision.

Together, the partnership replaces guesswork with facts and fragmented workflows with coordinated action. Teams gain the ability to assess exposure, strengthen core trust services, and prepare their environments for emerging standards and post-quantum requirements. The result is a cryptographic program that scales with the business and delivers the confidence to move forward without disruption.

Why This Matters Now:

- Cryptography underpins every digital connection
- Blind spots lead directly to outages and incidents
- New regulations demand proof, not assumptions
- PQC migration requires years, not months
- Complexity grows faster than teams can keep up

A Partnership That Delivers

End-to-end discovery:
Surfaces any cryptographic assets across hybrid environments.

Risk scoring & prioritization:
IBM maps findings to business impact and regulatory pressure.

PQC-ready PKI and Signing:
Enables hybrid and post-quantum algorithms with PKI and signing.

Lifecycle automation:
Command eliminates manual renewal, rotation, and outage risk.

Governance & CoE models:
IBM ensures scalable processes, ownership, and operating models.

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Step 1:

See the Entire Landscape

Create a clear, accurate view of the cryptographic envirionment.

Discovery reveals where cryptographic assets live across environments and exposes the blind spots that create operational and security risk.

- Builds a complete cryptographic inventory
- Identifies where cryptography is used across applications, workloads, and infrastructure
- Identifies weak, aging, or shadow cryptography

Step 2:

Focus on What Matters

Turn findings into a structured, risk-based plan.

Not all issues carry the same impact. Prioritization aligns vulnerabilities to business operations and regulatory pressure.

- Scores severity based on operational and compliance risk
- Highlights areas with the highest business impact
- Establishes clear, defensible remediation priorities.

Step 3:

Modernize and Automate Trust Services

Modernize PKI, signing, and lifecycle operations with PQC-ready trust.

Modern trust services replace manual work with automated, policy-driven processes that strengthen reliability and readiness.

- Enables hybrid and PQC-ready certificates with modern PKI and signing
- Automates renewal, rotation, and key operations
- Integrates with cloud platforms, identity systems, and DevOps

Step 4:

Build Long-Term Resilience

Establish governance and practices that sustain modernization.

A durable operating model ensures continuous improvement and readiness for evolving standards and post-quantum cryptography.

- Defines roles, KPIs, and governance structures
- Trains teams across security, infrastructure, and development
- Creates reusable patterns for ongoing PQC adoption

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Key Benefits:

Reduce Risk

Gain clarity across your cryptographic landscape so you can eliminate weak algorithms, aging certificates, and misconfigurations before they cause outages or audit findings

Increase Agility

Automate tedious lifecycle tasks and streamline workflows so teams can move faster without adding complexity or operational friction.

Strengthen Resilience

Build modern PKI, signing, and governance foundations that adapt to evolving threats, regulatory changes, and the shift to PQC.

Improve Visibility

Bring all cryptographic assets and dependencies into one clear view to support compliance, decision-making, and long-term crypto-agility.

Modernize cryptography with clarity, control, and confidence

This partnership is built for teams who cannot afford guesswork. Keyfactor delivers complete visibility and automated control, giving organizations a clear understanding of their cryptographic posture. IBM Consulting turns that clarity into action through structured planning, prioritization, and disciplined execution. Together, we shift organizations from reactive fixes to a stronger, more resilient foundation that supports growth, compliance, and long-term security.

KEYFACTOR

Keyfactor brings digital trust to the hyper-connected world by empowering organizations to build and maintain secure, trusted connections across every device, workload, and machine. By simplifying PKI, automating certificate lifecycle management, and enabling crypto-agility, Keyfactor helps organizations move fast to establish digital trust at scale. With Keyfactor, businesses can tackle today's challenges, like growing certificate volumes, manual processes, and new standards and regulations, while laying the groundwork for a successful transition to post-quantum cryptography

For more, visit keyfactor.com or follow us on Linkedin.

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Partnering directly with clients, we advice, design, build, and operate business innovation that matters and results that last.

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