Post-Quantum Cryptographic Services

Prepare your organization for the quantum era. Our services will help you understand and mitigate quantum risks and ensure your data remains secure.

Overview

Quantum technologies offer exciting possibilities but pose some significant challenges for cryptography. We can help you navigate these challenges and develop a quantum-ready strategy. Leading agencies are urging organizations to start preparing for the quantum future. A strategic approach will help you plan and define the scope of your transition to post-quantum cryptography. Our expertise can guide you in assessing your organization's current vulnerabilities and developing a proactive strategy.

The Best Time to Act is Now

Quantum threats are a growing concern, but you can anticipate them with our preventive approach. CISA, NSA, and NIST emphasize the need for organizations to act now.

- **Privacy risks:** Quantum computers can intercept and decrypt data, leading to privacy breaches.
- **Harvest-now, decrypt-later attacks:** Attackers can now intercept and decrypt data later when quantum computers are more powerful.
- **Increased data breach costs:** Quantum threats can significantly increase the cost of data breaches.

Key Risks of Post-Quantum Advancements

Quantum computers could break current cryptographic algorithms. This technology could make organizations vulnerable to attacks like "harvest-now, decrypt-later."

Quantum Threat Timeline

The threat timeline is shrinking, but there's still time to work together. It's essential to act now to assess, strategize, and implement quantum-safe solutions before it's too late. The shelf life of your data is a critical factor to consider.

Don't wait until it's too late; we are here to help establish your protection. Our services can help you protect your organization from quantum threats.

Risk Evaluation

We conduct a comprehensive assessment of your cryptographic infrastructure. Our services include:

- **Cryptographic discovery:** Analyzing your existing cryptographic systems.
- **Risk assessment:** Identifying potential quantum risks.
- **Governance assessment:** Evaluating your governance practices.

- **Asset classification:** Classifying your cryptographic assets.

Strategy

We'll guide you through a quantum-ready transition. Our services include:
- **Tailored strategy development:** Creating a strategy aligned with your organization's goals.
- **Agile operating model design:** Developing a flexible model to adapt to emerging threats.
- **Concrete roadmap creation:** Creating a detailed roadmap with specific milestones.
- **Best practices implementation:** Incorporating industry-leading best practices.
- **Expert consultations and tools:** Providing specialist advice and specialized tools.

Solution Implementation

We help you seamlessly transition to quantum-resistant cryptography. Our services include:
- **Proof of concept development:** Testing quantum-resistant solutions.
- **Quantum attack vulnerability assessment:** Identifying and addressing vulnerabilities.
- **Data scanning and inventorying:** Creating an inventory of your cryptographic assets.
- **Smooth transition planning:** Minimizing disruption during the transition.
- **NIST standards compliance:** Ensuring compliance with NIST standards.
- **Crypto-agile model implementation:** Integrating a flexible model for long-term resilience.
- **Crypto-governance operational assessment:** Evaluating your governance practices.
- **Data and crypto-asset classification:** Classifying your data and assets and implementing appropriate security measures.

Let's prepare your organization for the quantum future.