

Quantum-Ready starts now: 3 steps to protect long-term data

Protect your data today. Defend against tomorrow's threats with Citrix.

Quantum computing is accelerating, and with it comes a new class of cyber threats. Sensitive data that seems secure today could be exposed tomorrow through "Harvest Now, Decrypt Later" attacks. Organizations that manage long-lived data must start preparing now. Here are three essential steps to get ahead of the quantum threat and secure your future with Citrix.

Step 1: Understand Who's Most at Risk

1 Quantum decryption threatens all encrypted data, but some sectors face higher risk:



Governments

Classified communications and national security



Healthcare

Medical records with long-term sensitivity



Finance

Regulatory and financial data stored for decades



Enterprises

Intellectual property, encrypted backups, private communications

The threat is silent. Hackers are collecting encrypted data today, planning to decrypt it later as quantum computing matures.

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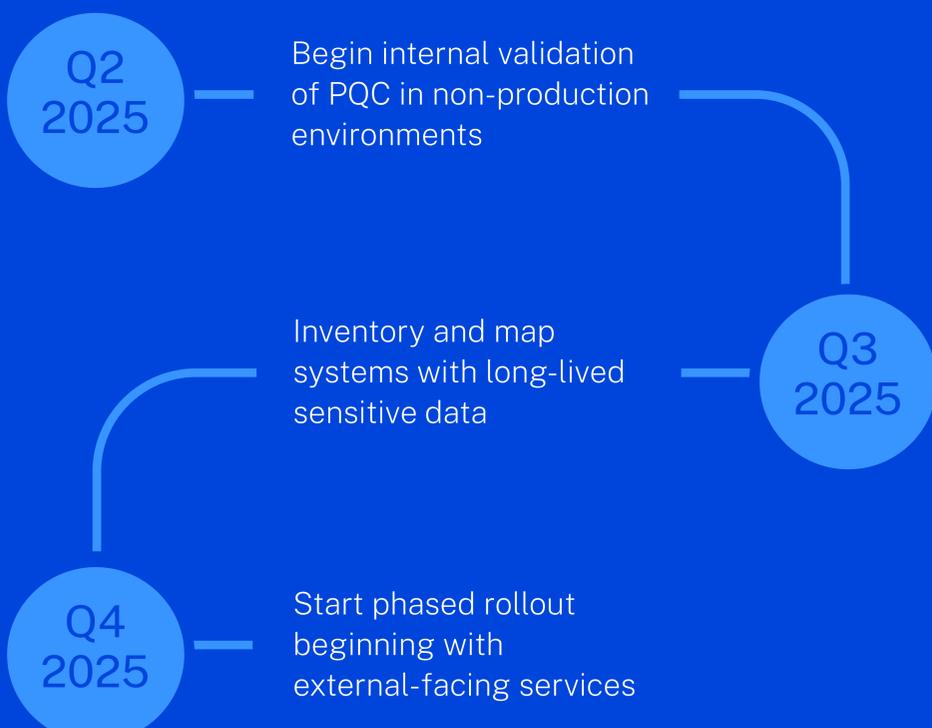
Main target

Data with a shelf life of 5 to 10 years, because that's exactly what quantum attackers are after.

Step 2: Take Action Now

2 The transition to post-quantum cryptography (PQC) is not a future problem; it's an infrastructure imperative. Industry estimates show proactive preparation is 3–5 times more cost-effective than reactive transitions.

Suggested readiness timeline:



Step 3: Secure Your Future with Citrix

3 Citrix NetScaler has one of the market's first production-ready, NIST-aligned hybrid post-quantum cryptography (X25519 + ML-KEM768), providing both forward-looking protection and backward compatibility.

Available now:

- Unified control plane and automation across hybrid and multi-cloud environments
- Listed on Department of Defense Information Network Approved Products List (DODIN APL)
- Ongoing security improvements like HTTP/3 over QUIC, DNS security enhancements, and reCAPTCHA v3 to strengthen application-layer security

Citrix enables you to begin the transition now, while you still control the timeline.

Be Quantum-Ready before it's too late.

Citrix is your partner in future-ready security. [Learn how](#) to begin your PQC journey with NetScaler.