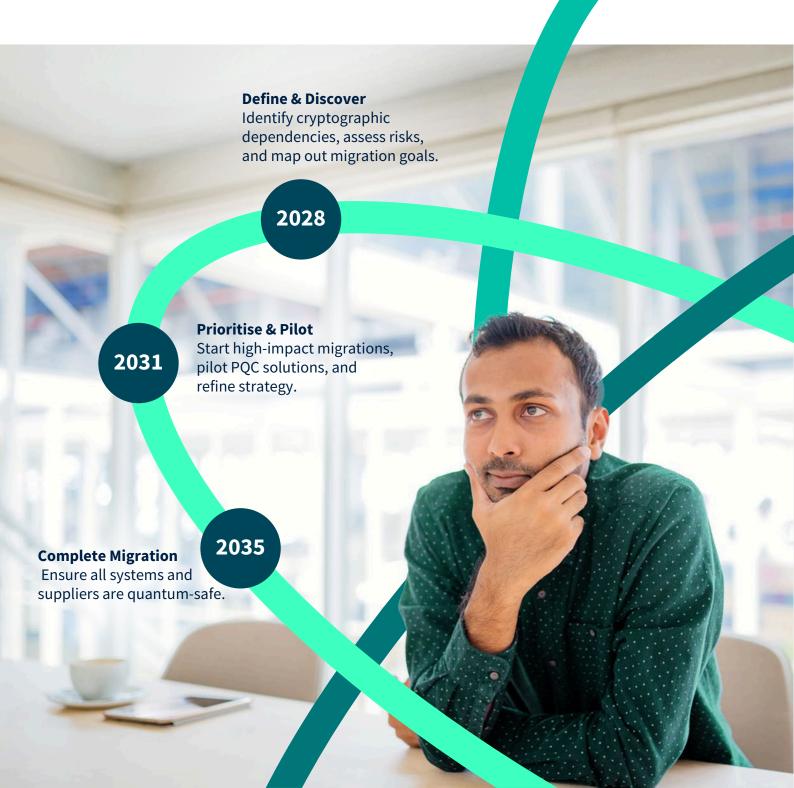


Preparing for the Quantum Future

A Practical Checklist for PQC Readiness



Actionable steps to help you protect your business

The UK's National Cyber Security Centre (NCSC) has issued a phased PQC roadmap to guide you and your organisation through the migration process. 2028 is the first big PQC milestone in the NCSC roadmap. It might seem distant, but that's less than three years away, and there's a lot to do. Our quantum readiness checklist will help you get PQC ready.

Building your Foundation

Why the groundwork matters

Before you can transition to post-quantum cryptography, you need to fully understand your current cryptographic estate and the capabilities of your existing hardware. Without this baseline, it's impossible to prioritise or plan your migration effectively.

1

Audit your certificates and crypto score

Doyou know where all your digital certificates are, when they expire, or what algorithms they use? If not, there may be blind spots and potential vulnerabilities you can't see. Begin by cataloguing your certificates and getting full visibility of your estate, noting expiry dates, key lengths, and signing algorithms. This gives you a baseline "crypto score" to measure against PQC standards.

2

Assess your hardware and networks

Quantum-ready encryption will demand more processing power. Some current firewalls, load balancers, and VPN devices may not cope with the increased computational load, potentially slowing business-critical services to unacceptable levels. Conduct an audit to determine whether your infrastructure can scale, or whether it needs upgrading.

3

Understand your encryption methods

Catalogue yourkeys and determinewhichareasymmetric (e.g., RSA, Diffie-Hellman) versus symmetric (e.g., AES). Asymmetric keys are most at risk from quantum attacks, and algorithms like RSA will become obsolete. Meanwhile, SSL offloading and key exchanges will need to move to PQC-ready ciphers to remain secure.

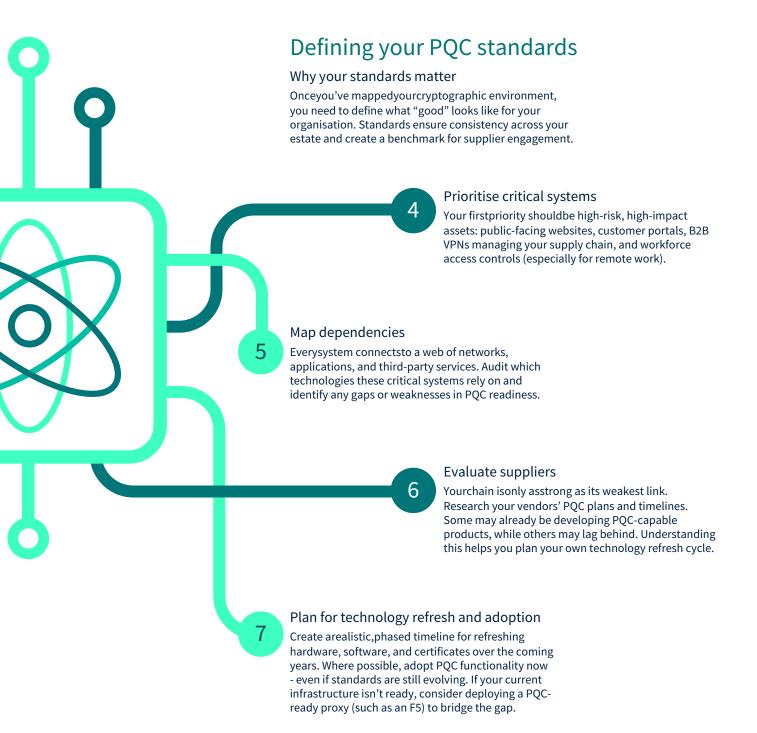




Did you know?

- Almost all certificatesissued today are not PQC ready. Identifying these now puts you ahead of the curve.
- Widely used encryption methods like RSA and Diffie-Hellman will be made obsolete when quantum computers arrive.
- While NIST-approved PQC algorithms such as CRYSTALS-Kyber (for key exchange) and CRYSTALS-Dilithium (for digital signatures) point the way forward, managing certificate lifecycles will be just as critical to staying secure.

Read more





Taking Action

The NCSC's advice is clear; quantum processing is coming within the next few years, and the time to act is now. Waiting until quantum computers arrive will put your data, systems, and compliance at risk.

Here's a summary checklist:

- Conduct a full cryptographic inventory
- Establish certificate management practices that enable crypto-agility
- Pilot PQC-ready solutions
- Engage with your suppliers
- Continuously monitor certificate lifecycles, algorithm updates and compliance requirements

The quantum threat doesn't have a fixed date, but preparation shouldn't wait. By auditing your certificates, defining your standards, and planning your migrations today, you'll ensure you're secure and resilient to face the quantum era.

Start your PQC readiness journey today

Getin touchfor moreinfoandresources, ortobook a PQC readiness review with one of our experts. www.fullproxy.com/PQC hello@fullproxy.com +44 141 291 5500



AppViewX enables certificate lifecycle management and automation, ensuring a seamless transition to PQC-compliant certificates at scale.



Fortinet provides network security platforms aligned with NIST PQC standards and robust, scalable key management.



We deliver secure application delivery with crypto-agility and TLS readiness for post-quantum ciphers through F5.