

Quantum-Safe Zero Trust Proxy Market to Reach \$4.37 Billion by 2029 with 28.2% CAGR

*The Business Research Company's
Quantum-Safe Zero Trust Proxy Global
Market Report 2025 - Market Size, Trends,
And Global Forecast 2025-2034*

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What Is The Quantum-Safe Zero Trust Proxy Market Size And Growth?

[The market size for quantum-safe zero-trust proxy](#) has seen a significant surge in recent years,

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expanding from \$1.26 billion in 2024 to \$1.62 billion in 2025, marking a compound annual growth rate (CAGR) of 28.6%. Factors contributing to this progression during the historic period include enhanced quantum computing sophistication leading to escalating cyber threats, a growing shift towards zero-trust security models, increased remote work, greater use of cloud applications broadening attack surfaces, a surge in regulatory requirements for quantum-resistant encryption, and a rising need for robust end-to-end data security against impending quantum assaults.

Expectations are high for a significant expansion in the quantum-safe zero-trust proxy market within the upcoming years, with projected growth reaching \$4.37 billion in 2029, reflecting a compound annual growth rate (CAGR) of 28.3%. This surging growth forecast is linked to the rising anxiety over quantum computing threats, the increasing incidence of sophisticated cyberattacks, a surge in demand for secure cloud-native zero trust solutions, compulsory regulations for adopting post-quantum cryptography, plus the widespread use of remote work demanding stronger secure access controls. Looking ahead, the prediction period is likely to see strides in post-quantum cryptography inclusion, real-time adaptive trust frameworks development, cloud-native quantum-safe zero trust solutions revolution, improvement in rapid

quantum-safe data transmission, and the advancement of automated threat detection possessing quantum resistance.

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<https://www.thebusinessresearchcompany.com/sample.aspx?id=27947&type=smp>

What Are The Current Leading Growth Drivers For Quantum-Safe Zero Trust Proxy Market?

The upsurge in cyber threats is anticipated to stimulate [the expansion of the quantum-safe zero-trust proxy market](#). Cyber threats involve harmful actions or risks aimed at computer systems, networks, or data, intending to rob, harm, or disrupt operations. The spike in cyber threats can be attributed to factors such as an increase in ransomware instances, data breaches, and the potential threats from quantum decryption. This prompts organizations to utilize PQC-integrated zero trust solutions proactively to defend crucial infrastructure and data. Quantum-safe zero trust proxy solutions aid in securing against cyber threats by constantly enforcing identity and device validation, incorporating quantum-resistant encryption for every session, and sustaining precise, real-time policy enforcement across mixed and cloud settings, reducing both cyber and quantum-era risks. As an example, in April 2025, Check Point Software Technologies Ltd., a cybersecurity firm based in Israel, reported that the weekly average of cyberattacks per organization escalated to 1,925 during the first quarter of 2025, representing a 47% rise from the first quarter of 2024. Consequently, the surge in cyber threats is fuelling [the advancement of the quantum-safe zero-trust proxy market](#).

Which Companies Are Currently Leading In The Quantum-Safe Zero Trust Proxy Market?

Major players in the Quantum-Safe Zero Trust Proxy Global Market Report 2025 include:

- Google LLC
- Accenture Plc
- International Business Machines Corporation
- Cisco Systems Inc.
- Thales Group
- Palo Alto Networks Inc.
- Fortinet Inc.
- F5 Inc.
- Check Point Software Technologies Ltd.
- Zscaler Inc.

What Are The Key Trends Shaping The Quantum-Safe Zero Trust Proxy Industry?

Principal firms in the quantum-safe zero trust proxy market are focusing their efforts on the creation of innovative solutions like cloud-native quantum-safe zero trust platforms. These advancements aim to fortify comprehensive data protection, alleviate risks linked with harvest-now-decrypt-later attacks, and facilitate a frictionless transition. Cloud-native quantum-safe zero trust platforms are security strategies wholly constructed on cloud infrastructure and they incorporate post-quantum cryptography to safeguard all digital communications under a zero trust framework. For instance, US-based connectivity cloud firm, Cloudflare Inc., introduced its

quantum-safe Zero Trust platform in March 2025. This solution allows corporations to channel all internet-based communications via end-to-end post-quantum encryption, providing a shield against harvest-now-decrypt-later threats. It further secures the accessibility to corporate web applications sans the necessity for individual upgrades and is expected to cover all IP protocols by mid-2025 through WARP client-to-tunnel settings. It also paves a straightforward and scalable route for businesses to employ quantum-safe security across their digital landscape.

How Is The Quantum-Safe Zero Trust Proxy Market Segmented?

The quantum-safe zero trust proxy market covered in this report is segmented

- 1) By Component: Software, Hardware, Services
- 2) By Deployment Mode: On-Premises, Cloud
- 3) By Organization Size: Small And Medium Enterprises, Large Enterprises
- 4) By Application: Network Security, Data Protection, Identity And Access Management, Secure Web Gateway, Others Applications
- 5) By End-User: Banking, Financial Services, And Insurance, Healthcare, Government, Information Technology And Telecommunications, Retail, Manufacturing, Other End-Users

Subsegments:

- 1) By Software: Identity And Access Management, Secure Web Gateway, Cloud Access Security Broker, Endpoint Protection, Data Loss Prevention, Security Information And Event Management
- 2) By Hardware: Security Appliances, Network Firewalls, Routers And Switches, Quantum-Safe Encryption Devices, Authentication Hardware
- 3) By Services: Professional Services, Consulting Services, Training And Education Services, Managed Security Services, Support And Maintenance Services

View the full quantum-safe zero trust proxy market report:

<https://www.thebusinessresearchcompany.com/report/quantum-safe-zero-trust-proxy-global-market-report>

Which Is The Dominating Region For The Quantum-Safe Zero Trust Proxy Market?

In 2024, North America dominated the quantum-safe zero trust proxy market as the largest region. It is anticipated that the Asia-Pacific region will experience the most rapid growth in the forecast period. The quantum-safe zero trust proxy report includes areas such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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