



Tectia SSH Server & PrivX Desktop Quantum-Safe

Secure mission-critical workloads with post-quantum technology

Fast and secure file transfer, interactive secure remote access, and high-throughput workloads at scale. With PQC algorithms.



While cryptographically relevant quantum computers do not exist just yet – your long-term secrets do, and they are in danger as transmissions of your encrypted data are vulnerable to recording attacks. Your secrets can be recorded now and stored by the attacker to be decrypted later.

Reaching quantum resilience will take time. Industry authorities, like NIST, strongly recommend to start preparing your information security systems already now. PrivX Desktop and Tectia Server secure your SSH access and file transfers and help you upgrade your infrastructure as part of your Post-Quantum Cryptography (PQC) strategy.

Benefits

Business continuity

Lower your lifecycle costs and mitigate the risk of legacy or open-source implementation.

Continuous operations

Manage critical operations with confidence, backed by 24/7 support and long-term product updates.

Operational efficiency

Minimize downtime and operational overhead, while ensuring uptime, reliability, and sustained employee productivity.

1. Compliance

The complete client-server solution (Tectia Server + PrivX Desktop) supports compliance with FIPS, PCI-DSS, HIPAA, GDPR, and more.

3. Integrations & interoperability

Tectia interoperates with all major platforms, including Linux, Windows, UNIX, and IBM z/OS mainframes. It provides full compatibility with earlier Tectia technology and fully supports OpenSSH and other SSHv2-compliant implementations.

5. Hybrid algorithm approach

Protect your organization against traditional as well as quantum attacks with the hybrid algorithm approach – a combination of classical and NIST-approved post-quantum algorithms.

2. Secure file transfer at scale

Enable massive file transfers reliably and at scale, moving TB-sized files with configurable compression options.

4. Secure machine-to-machine connections

Secure automated machine-to-machine file transfers and protect mission-critical data in transit. Tectia supports smartcards, including U.S. federal government PIV cards like CAC and YubiKey.

6. Quantum-safe connections secured with tunnelling

With the tunneling feature, any TCP/IP connection can be made quantum-safe. Tectia supports the following PQC algorithms:

- Crystals/Kyber
- FrodoKem
- NTRU – retained for OpenSSH compatibility
- FireSaber – retained as backup

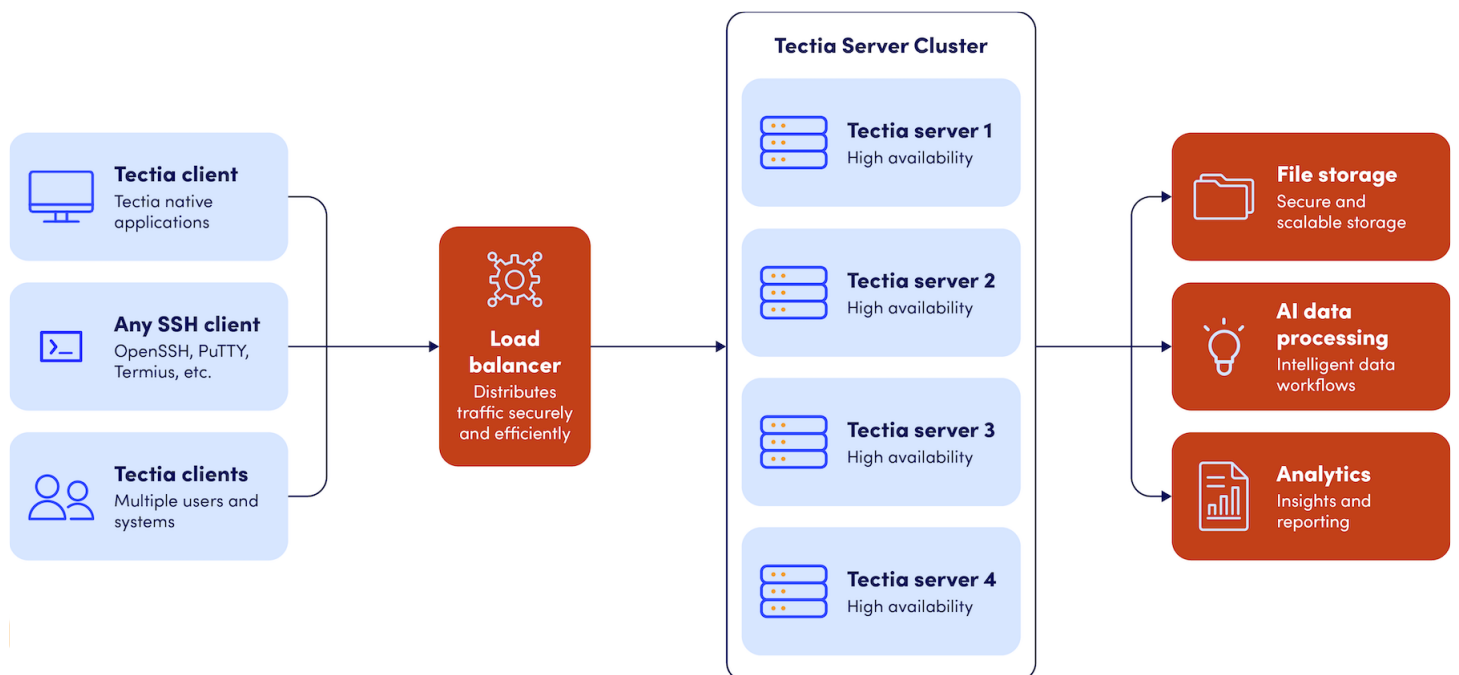


Why Tectia SSH Server & PrivX Desktop?

The combination of Tectia Server and PrivX Desktop (client) offers a powerful encrypted access for security-conscious organizations that require speed, efficiency, and reliability.

30+

Tectia is a results of 30+ years of SSH expertise and experience.



A large Asian financial institution secures sensitive data-in-transit

Challenges	Solution	Results
The customer's employees and partners rely heavily on file transfers to securely share data throughout the entire organization. Security is of paramount concern, but the customer also needed a solution that enables an agile way of working for its staff. They need a reliable, secure solution without slowing down productivity.	At first, the customer considered OpenSSH but realized that it could potentially open the code of their core banking systems to the public, making it vulnerable to hackers. Also, they have SFTP automation scripts within their infrastructure, and a migration to OpenSSH would be too costly, time-consuming, and demanding for the team. The customer felt it was important to have local support. Ultimately, our SSH client/server proved to be the right solution for all these needs.	The solution was deployed on the customer's Windows and UNIX systems, for which the customer relied on our expert support to ensure smooth deployment and integration. The solution supports secure and compliant X.509 certificate-based authentication. Besides its robust security, it is also fast, transferring large files up to twice as fast as OpenSSH.