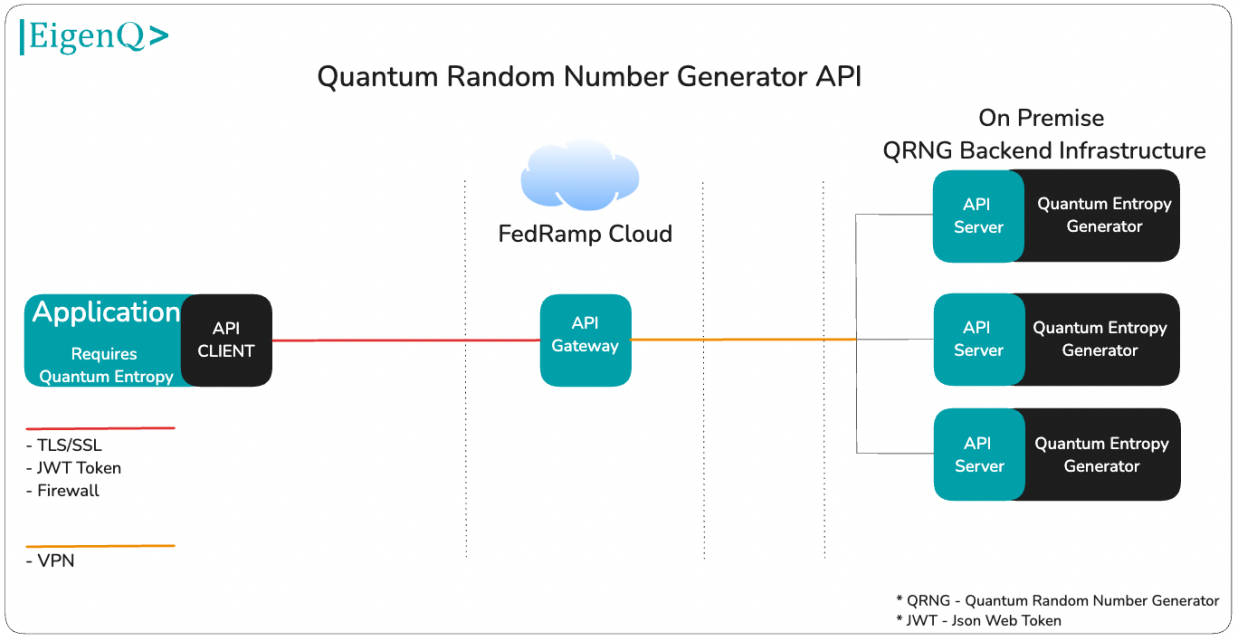
EIGENQ Quantum Random Number Generator API

The **EIGENQ QRNG API** enables seamless access to high-quality quantum entropy from our external Quantum Random Number Generator (QRNG) platform. Designed for flexibility and ease of use, the API allows developers to retrieve true quantum entropy and integrate it into their cryptographic applications using standard RESTful requests.

By abstracting the complexity of QRNG access, EIGENQ empowers developers to enhance the security of their applications with superior entropy, without needing to manage the underlying quantum hardware.



Our cloud deployment is designed with a strong security posture to ensure integrity, confidentiality, and controlled access:

- **TLS Encryption** ensures all data in transit between clients and the API is securely encrypted.
- **Firewall Policies** are enforced to restrict unauthorized access and minimize the platform's attack surface.
- The **API Gateway** serves as a secure and scalable entry point for all external requests. It handles authentication, rate limiting, and request routing to backend services.

🔒 *Rate limits may apply based on usage tiers to ensure fair and optimal service availability.*

Communication between the **API Gateway** and our **on-premise QRNG infrastructure** is strictly enforced via a **dedicated VPN tunnel**, ensuring that only authorized servers can communicate with backend entropy sources.

This secure channel, combined with network segmentation and access controls, protects the internal quantum entropy generators and ensures the trustworthiness of the data provided by the API.