QRYPTOALLIANCE



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https://linktr.ee/sphinx.org

An open-source postquantum blockchain layer 1 Problem of Large scale QC threat into primitive cryptography;

- 1. EC(DH, DSA)/ RSA will be broken =
 - Shor's algorithm in $O((Log N)^3)$
- 2. Hash-Function SHA2/3 $y^{2^{256}} = H0(h2^{256}(x))$ will be broken =
 - Grover's algorithm in $O(2^{256/2})$
 - BHT algorithm in $O(2^{256/3})$ + qRAM
- 3. AES will be broken =
 - Grover's algorithm in $O(2^{256/2})$
 - BHT algorithm in $O(2^{256/3})$ + qRAM
- 4. Deterministic CSPRNG will be broken =
 - Grover's search in $O\sqrt{N}$
- 5. Passphrase 2048^{12} might be broken =
 - Grover's algorithm in $O(2048^{12/2})$
 - BHT algorithm in $O(2048^{12/3})$ + qRAM

Solution of Large scale QC is only migration into PQC;

- 1. HBS will given us $O(2^{128}) \approx 2^{52} years$ against QC
- 2. Hash-Function $y^{2^{256*2}} = H0(h2^{256}, h3^{256}(x))$ increase hardness against =
 - Grover's algorithm in $O(2^{\frac{256}{2}*2})$
 - BHT algorithm in $O(2^{\frac{256}{3}*2})$ + qRAM
- 3. AES + FHE might helpful against =
 - Grover's algorithm in $O(2^{256/2})$
 - BHT algorithm in $O(2^{256/3})$ + qRAM
- 4. qRNG will help but there is no individual hardware exist yet =
 - Grover's search in $O\sqrt{N}$
- 5. Passphrase 2048^{12} + Base 32 Passkey $2^{4199040*8}$ will help =
 - Grover's algorithm in $O(2048^{12/2}) + O(2^{4199040*8/2})$
 - BHT algorithm in $O(2048^{12/3}) + O(2^{4199040*8/3}) + qRAM$

Roadmap;

- 1. Build team (Founder, co-founders, engineers, github maintainer).
- 2. Qrypto Alliance Legal registration || Sphinx Foundation.
- 3. Website Development.
- 4. Global Community Developmet.
- 5. Adjust/ Accelerate existing idea and code base.
- 6. Technical Development \Rightarrow Relase Whitepaper.
- 7. Raising Fund.
- 8. PoS (SNOW), SVM, MPC/ MPS, ZK, PQC \Rightarrow Blockchain development.
- 9. 100M **\$SPX** Coins Issuance.
- 10. Testnet.
- 11. Mainnet.