

The NuCypher Network: A decentralized cryptological network offering accessible, intuitive, and extensible runtimes and interfaces for secrets management and dynamic access control

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NuCypher

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The NuCypher Network provides accessible, intuitive, and extensible runtimes and interfaces for secrets management and dynamic access control. It's accessible by virtue of being decentralized, permissionless, and censorship-resistant: there are no gate-keepers and anyone can use it. It's intuitive thanks to the classic character-based narrative of Alice and Bob (with the introduction of additional cryptological characters where appropriate), that permeates the code-base and helps developers write safe, misuse-resistant code. It's extensible as it currently supports proxy re-encryption but can be extended to provide support other cryptographic primitives.

The NuCypher Network enables developers to manage secrets and dynamically grant and revoke access to sensitive data in public networks.

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I. INTRODUCTION

II. NETWORK

III. SMART CONTRACT LAYER

IV. NU TOKEN AND STAKING ECONOMICS

V. CHARACTERS

VI. CONCLUSION

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