

Authentication By Encrypted Negative Password

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Introduction

- Theme of the project is Password Authentication Framework
- A password protection scheme called Encrypted Negative Password (ENP).
- ENP based on the Negative Database (NDB), cryptographic hash function and symmetric encryption.
- In the ENP, the secret key is the hash value of the password of each user.
- ENP enables symmetric key encryption to be used for password protection.
- ENP is the first password protection scheme that combines the cryptographic hash function, the negative password and the symmetric-key algorithm.

Related Work

- Typical Password Protection Schemes
 - Hashed Password
 - Salted password
 - Key Stretching
- Negative Database (NDB)
- Two ENP implementations : ENPI and ENPII, including their generation and verification algorithms.
- Analyse and compare the attack complexity of hashed password, salted password, key stretching and the ENP.

Enhancement

- The project aims at creating an application which enables the Local Network Administrator to perform real time monitoring, data acquisition data analysis, and transmission.
- The main aim of this project is to find the different types of crime and provide some preventive measures to protect themselves from those who would steal, deny access to, or destroy valuable information.

Conclusion

- A password protection scheme called ENP, and presented a password authentication framework based on the ENP.
- The entries in the authentication data table are ENPs.
- The ENP could resist lookup table attack and provide stronger password protection under dictionary attack.

THANK YOU