



Semester : 1

Subject : CSS

Academic Year: 20 23- 2024 .

13-2024

MECHANISMS OF SECURITY:

The different mechanisms of security are.

- * Encipherment
- * One Way Hashing
- * Firewall
- * Intrusion Detection System
- * Access Control list
- * Digital Signature

Encipherment:-

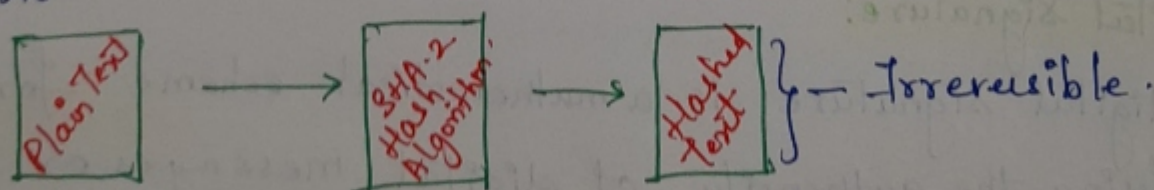
The application of mathematical algorithms to transform data into a form that is difficult to understand. An algorithm or more encryption keys are used to convert the data and then recover it.

There are two types:

- * Symmetric (or) Private (or) Secret Key Cryptography.
- * Asymmetric (or) Public Key Cryptography.

One Way Hash Function:

A fixed length output string is generated from a variable length input in which the reverse of a function is almost impossible.





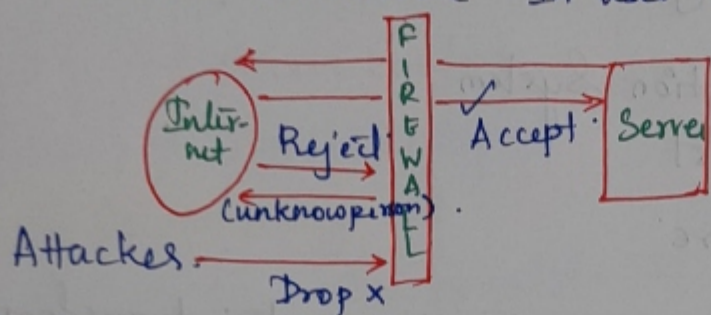
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Firewall:-

Firewall is a software or firmware that enforces a set of rules about what data packets will be allowed to enter or leave a network. It uses 8 rules:



IDS : Intrusion Detection System

IDS is a type of security software designed to automatically alert administrators when someone or something is trying to compromise information through malicious activities.

Access Control List:-

Access Control list refers to permissions attached to an object that specify which users are granted access to that object and its operation. It is ~~called~~ allowed to perform.

Digital Signature:

A digital signature is a mathematical scheme for verifying the authenticity of digital messages or documents.