

Problem Solving (A3) Report

Christian Robles - January 20,2021 - Virtual Safe / Password Manager

Identify the Problem

Personal/private information of a person can be easily accessed, stolen, exposed, manipulated, or many other things, by others who aren't supposed to. This can result in pretty bad outcomes for the owners of the information.

Standard: The owner and those who he consent, must be the only ones to have access to any personal/private information.

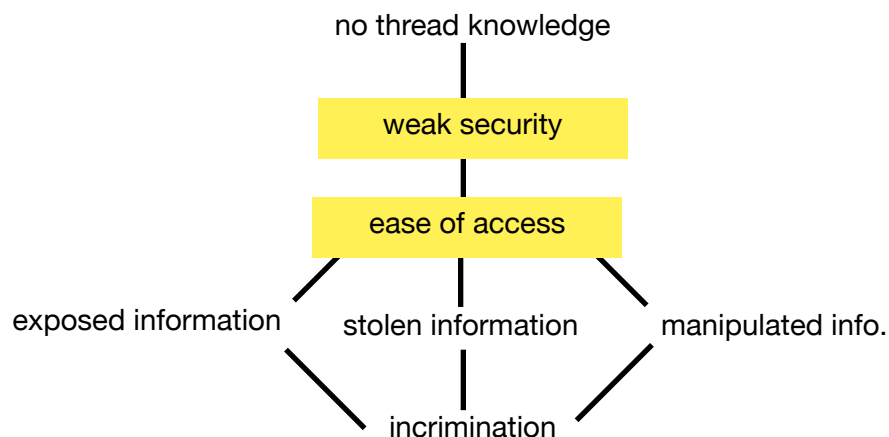
According to IdentityForce: "In 2019, 14.4 million consumers became victims of identity fraud — that's about 1 in 15 people"

Set the Target

Securing the information of the owners, so that they are the only ones who can access and manage it.

Analyze the Causes

Usually people aren't aware of the threads that can affect them. For example, in today's society people usually have many different types of accounts secured by passwords. Due to the amount of accounts, there can be a lot of passwords to remember, so they tend to use the same password or make them easier, resulting in weak and unreliable security. This ease the access to other people who aren't suppose to, leading to unwanted situations.



Purpose and Implement Countermeasures

Cause	Countermeasures	Why
weak security, easy access	use a password generator to create a random hard guess password add two-factor authentication	By implementing one or both of this measures the complexity of accessing the information increases significantly.

Check/Evaluate

- Creating a random password or adding a two-factor authentication increased the security of the information.
- Information is effectively secured, granting access just to the owner and this who has his consent.
- No weak security or easy access for unwanted persons. Persons that aren't suppose to have access to the information, won't have it.
- If countermeasures doesn't work other types of security methods must evolve so that a security improvement is guaranteed.

Act and/or Standardize

If there is some kind of security vulnerability, the owner would be notified and will be recommended to improve it. Other kinds of suggestions will also be able, so that the constant security of the information is ensured.