

Malicious Program vs. Vulnerable Program

The program **has been** designed to compromise the security
of the operating system

➔ There user executes manually

The program **has not been** designed to compromise the
security of the operating system may can enable the

➔ The user executes a legitimate program that may be coerced into executing a malicious payload. The program is potentially exploitable.

● **Arbitrary Code Execution Vulnerability** : a vulnerability that can be exploited to execute a malicious payload (code)

Malicious Program vs. Vulnerable Program

The program **has been** designed to compromise the security of the operating system

➡ The user executes a malware

The program **has not been** designed to compromise the security of the operating system may can enable the

➡ The user executes a legitimate program that may be coerced into executing a malicious payload. The program is potentially exploitable.

◎ **Arbitrary Code Execution Vulnerability** : a vulnerability that can be exploited to execute a malicious payload (code)

What is a secure system?