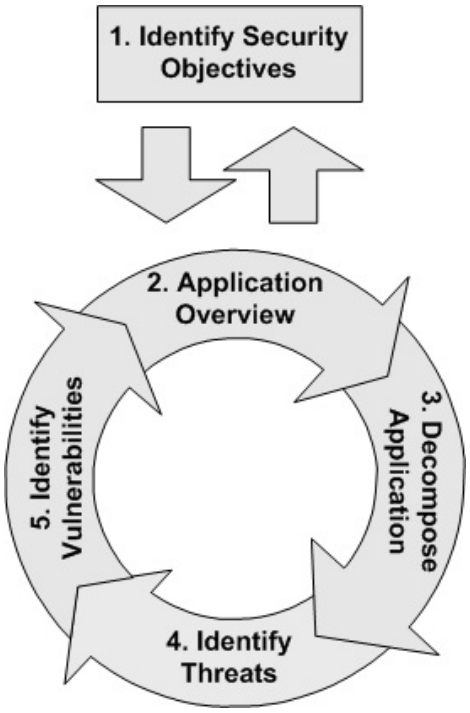
Threat Model Concepts



Vocabulary

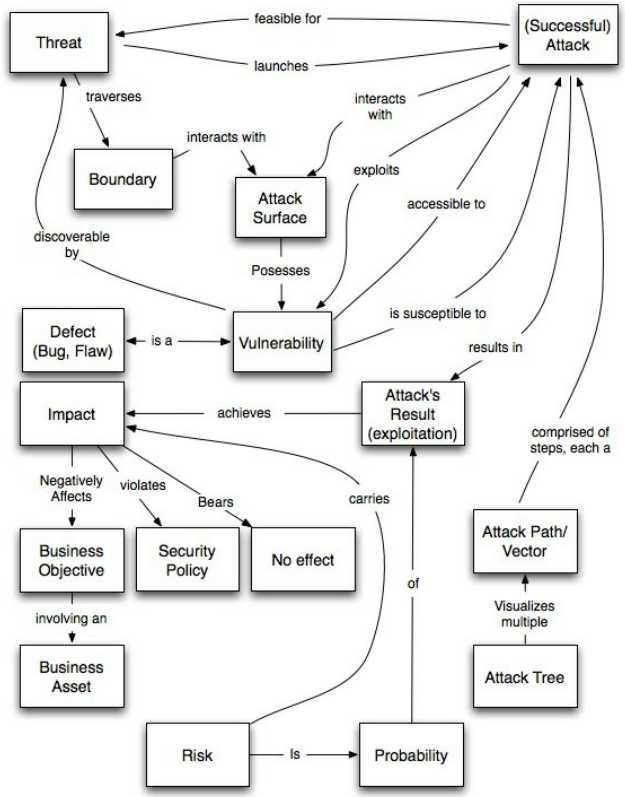


Image from https://www.cigital.com/blog/threat-modeling-vocabulary/

DFD Elements

External Entity	The external entity shape is used to represent any entity outside the application that interacts with the application via an entry point
Process	Represents a task that handles data within the application. The task may process the data or perform an action based on the
Multiple Process	Used to present a collection of subprocesses. The multiple process can be broken down into its subprocesses in another DFD.
Data Store	Represents locations where data is stored
Data Flow	Represents data movement within the application. The direction of the data movement is represented by the arrow.
Privilege Boundary	Represent the change of privilege levels as the data flows through the application.

Data Classification

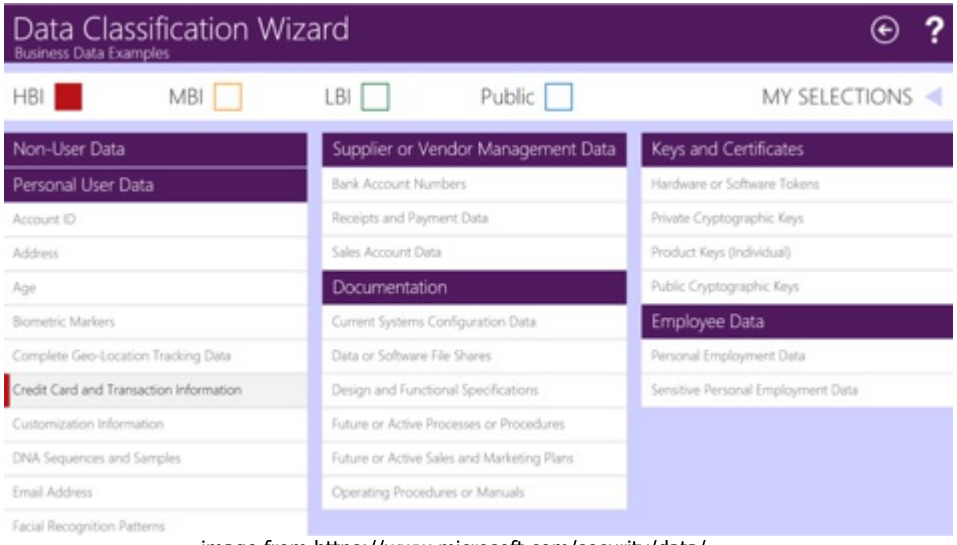


image from https://www.microsoft.com/security/data/

STRIDE

Threat	Description	Breaks
Spoofing	Pretending to be somebody else	Authentication
Tampering	Modifying data that should not be modifiable	Integrity
Repudiation	Claiming someone didn't do something	Non-Repudiation
Information Disclosure	Exposing information	Confidentiality
Denial of Service	Preventing a system from providing service	Availability
Elevation of Privilege	Doing things that one isn't supposed to do	Authorization