



Session 1:

Fundamental Security Concepts

Module 3 – Terminology of the Security Domain

Key Terms in the Security Domain

Vulnerability

A weakness in the design, implementation or operation of a system

Threat

The possibility/potential that an adversary takes advantage of the vulnerability

Attack

Act of exploiting a vulnerability

Key Terms

Asset:

Every valuable thing owned. Examples are:

- Devices, Tools, Machinery, ...
- Valuable information / data / plans
- Bandwidth
- Employees (people)
- Reputation -> Website defacing attacks target this





Key Terms (cont'd)

Incident:

A set of events that once triggered, jeopardize the security.

notice that not all events are incidents!

Risk

A measure for assessing an uncertain source's impact on objectives/assets.

Key Terms

Control:

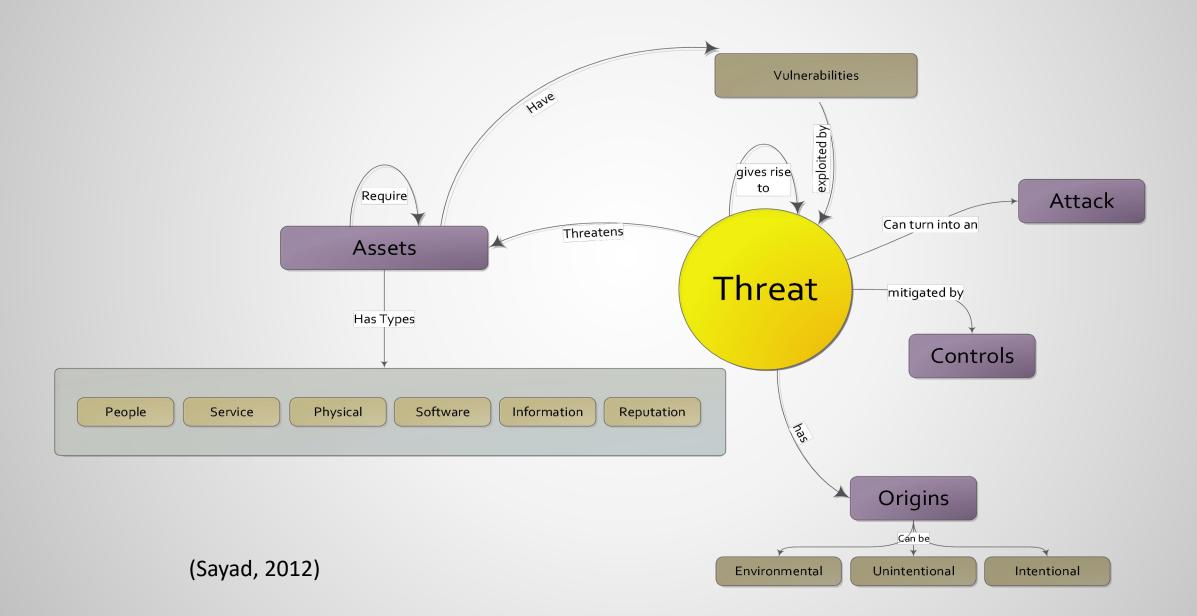
Every technical, legal or administrative method used to manage and reduce the risk. Examples:

- Trainings
- Policies
- Procedures
- Security Cameras
- Antiviruses
- Firewalls
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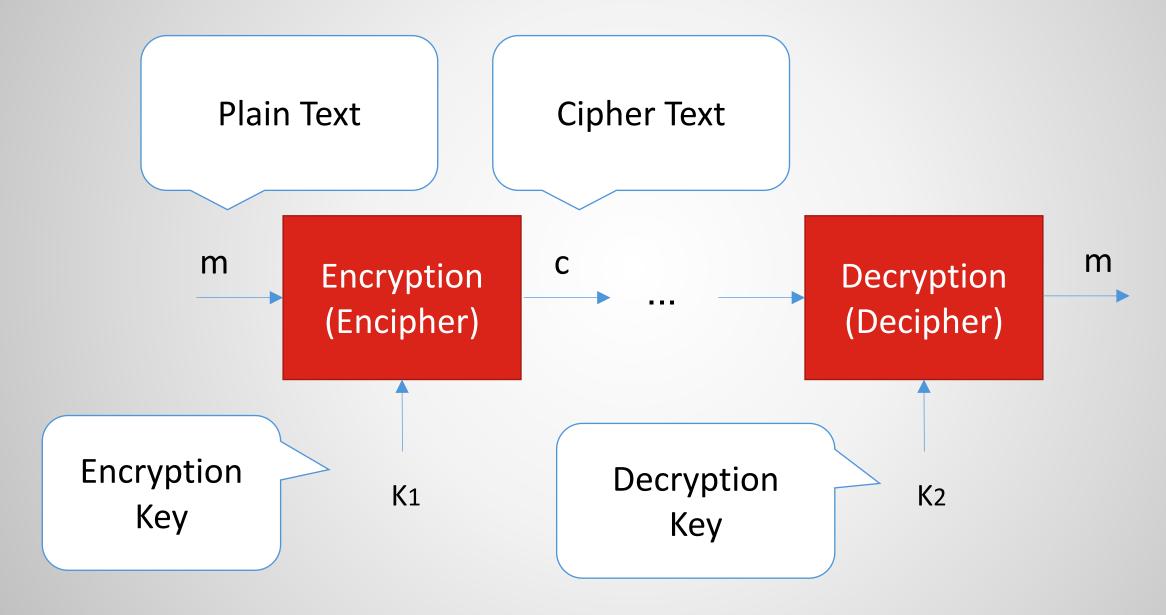
Cryptanalysis

- An analysis aiming at breaking a cyptosystem, mainly targeting the key. Has 2 types.
 - cryptanalytic attack
 - brute-force attack

Key Definitions/Terms Relationships



Terminology in Cryptography



What Comes Next ...

 We learned about technical terms in security and cryptography and how to interpret them.

 In the next video, we will learn some cryptographic primitives as well as symmetric ciphers and see their applications. See you in the next video ...