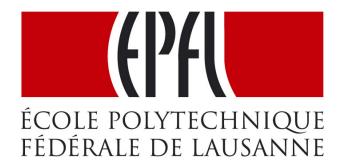
ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

Course Notes in

Software Security



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Spring 2019



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1 Basic Principles

Software security have a basic gold rule: allow intended use of software, prevent unintended use that may cause harm. The three main principles are:

- Confidentiality
- Integrity
- Availability

1.1 Analysis

Given a software system, need to determine if it is secure. What is the attack surface? (remote attacker? known insider? physically local attacker?) What are the assets? (sensible data? gain code execution? bandwidth?) What are the goals?