Information System Security Security Audit



- The objective of this lab is to present a risk analysis for each vulnerabilities you find last week on the web application.
- ▶ On a scale from 1 to 4, the level of security needs for this web application are evaluated to :
 - > Availability: 3
 - ➤ Integrity : 3
 - Confidentiality: 3
 - Proof: 3
- ▶ The maximum severity (significance of the impacts) for your risk analysis can not exceed 3 (major).



- ▶ Find a scenario of threat for each attack (describe who attack what, exploiting what vulnerability and getting what information)
- ▶ Evaluate the ease of operation of each scenario of threat (on a scale from 1 to 4):

Level	1	2	3	4
Ease of operation	Difficult	High	Moderate	Easy

▶ Evaluate the severity (significance of the impacts) for the web administrator of each scenario

Level	1	2	3	4
Severity	Minor	Moderate	Major	Catastrophic



Ease of operation :

- <u>Difficult</u>: exploitation of unpublished vulnerabilities requiring expertise in information systems security and the development of specific and targeted tools
- High: exploitation of public vulnerabilities requiring skills in security of information systems and the development of simple tools
- Moderate : exploitation requiring simple techniques and publicly available tools
- Easy: trivial exploitation, without any special tools



Deduce from the ease of operation of your scenario of threat and the severity associated the risk level for each risk:

		Ease of operation			
		Difficult	High	Moderate	Easy
Severity	Minor	Low	Low	Medium	High
	Moderate	Low	Medium	Medium	High
	Major	Medium	High	High	Critical
	Catastrophic	Medium	High	Critical	Critical



- ▶ For each risk, give technical or organizational countermeasures (recommendations) to reduce the risk level
- Evaluate the residual risk (evaluate the ease of operation and severity of each scenario after your recommendations)

Show me the initial risk and residual risk in 2 tables for each scenario:

