Security Risk

Exercise

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Task: Elicit security risks for the given example
Use the following guidelines

1. **Functionality Decomposition Layers** and/or **Information processing functions** to determine targeted **system assets**

2. Taxonomy of **Seven pernicious kingdom** (or any other vulnerability database) to determine **vulnerabilities of the systems assets**

3. **Characteristics of Threat agent** to characterize Capabilities, Motivation and Expertise of the **Threat agent**

4. **STRIDE** and/or **Taxonomy of Threats to (Distributed) Systems** to determine **Threats** and **Attack methods**

5. **Symptoms** of malicious software to indicate the **harm** to the assets. Indicate what could be the possible negation of the security criterion.

6. **Fill in the table (for each risk) to state explicit risk definition.**
Use the following guidelines

1. *Functionality Decomposition Layers* and/or *Information processing functions* to determine targeted *system assets*

2. Taxonomy of *Seven pernicious kingdom* (or any other vulnerability database) to determine vulnerabilities of the systems assets

3. *Characteristics of Threat agent* to characterize *Capabilities, Motivation and Expertise* of the Threat agent

4. *STRIDE* and/or *Taxonomy of Threats to (Distributed) Systems* to determine *Threats and Attack methods*

5. *Symptoms of malicious software* to indicate the harm to the assets.

6. Fill in the table (for each risk) to state explicit risk definition.

   - **To reason about the risk:**
     - Explicitly define *rationale* for selecting security risk component;

   - **Keep**
     - *Consistency* and *integration* of the selected risk components
Risk Analysis Template

6. Fill in the table (for each risk) to state explicit risk definition.

<table>
<thead>
<tr>
<th>RiskID</th>
<th>System asset(s)</th>
<th>Vulnerability</th>
<th>Threat agent</th>
<th>Threat and Attack method</th>
<th>Impact and its Harm</th>
<th>Risk definition</th>
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