GENERAL INFORMATION

Data of the subject

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<th>Subject name</th>
<th>Intrusion Tests and Management of Vulnerabilities</th>
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<td>DTC-MCS-516</td>
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<td>Mainprogram</td>
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<td>Credits</td>
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<td>Type</td>
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<tr>
<td>Department</td>
<td>Department of Telematics and Computer Sciences</td>
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<tr>
<td>Coordinator</td>
<td>Rafael Palacios</td>
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Course overview

The "Intrusion Tests" also known as "Pentest" are a set of tests used so that companies know their weak points and can mitigate them. The "Vulnerability Management" allows knowing the state of the threats detected on an organization, knowing at all times the level of exposure and helping to apply measures that solve them. In this course, you will learn in a theoretical and practical way all the basic concepts to run tests that allow you to analyze the level of exposure of an organization and how to manage the localized findings so that those actions that are necessary are implemented.

Teacher Information

Teacher

<table>
<thead>
<tr>
<th>Name</th>
<th>Antonio Pérez Sánchez</th>
</tr>
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<tbody>
<tr>
<td>Department</td>
<td>Department of Telematics and Computer Sciences</td>
</tr>
<tr>
<td>EMail</td>
<td><a href="mailto:apsanchez@icaicomillas.edu">apsanchez@icaicomillas.edu</a></td>
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DESCRIPTION OF THE SUBJECT

Contextualization of the subject

Prerequisites

Experience with using virtual machines with VMware or Virtual Box.

Course contents

Contents

**Tema 1: Introduction**

- Phases of penetration testing
- Recognition phase
Tema 2

- Test phases: Tool selection, Sending, Execution.
- Examples of basic vulnerabilities

Tema 3: Advanced vulnerabilities

Tema 4

- Test phases: Installation, C&C, Actions on the target.
- Metaexploit Framework
- Lateral movement and vertical movement

Tema 5: Vulnerabilities

- Vulnerability Management
- Automated analysis tools

EVALUATION AND CRITERIA

**Grading**

- Lab reports (75%): Average of all lab reports submitted during the course.
- Final exam (25%): Test exam.

BIBLIOGRAPHY AND RESOURCES

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