



Universidad
Carlos III de Madrid

Grupo COSEC · Dept. of computer science

Lab Sessions

General information and Guidelines

Security Engineering
Bachelor in Informatics Engineering

January 2018

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Lecturers

- ▶ Coordinating teacher:
- ▶ ESTEVEZ TAPIADOR, JUAN

Lab sessions (Bilingual):

Juan Caballero

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Office Hours (Bilingual):

Thursday, 10:30 – 11:00 @ 2.2.C.05



Lab Assignments

- ▶ Social network Fakebook
 - ▶ To be completed **in pairs** or individually
 - ▶ Extra work is required outside of Lab
 - ▶ Options:
 1. Use Torres Quevedo Labs.VM need to be configured each time.
 2. Download and execute VM on a external hard drive.
 3. Bring your own Laptop
- Options 2 and 3 are recommended.



Lab Assignments

- ▶ Two parts
 - ▶ Part 1: At a system level
 - ▶ Access control
 - ▶ Analysis tools
 - ▶ Network Security
 - ▶ Intrusion detection
 - ▶ Response to incidents
 - ▶ Part 2: At an application level
 - ▶ Security of web services
 - ▶ Security of web applications



Chronogram

Thu 25/1/2018	
S1 - Presentation. Intro to Fakebook, Lab Presentation	
Thu 01/02/2018	
S2 - Fakebook (1) - Access control (permits, RBAC)	
Thu 08/02/2018	
S3 - Fakebook (1) - Security analysis tools (NMAP, Openvas, nikto, Metasploit)	
Thu15/02/2018	
S4 - Fakebook (1). Network Security (IDS, Firewall)	DELIVERABLE 1.1
Thu22/02/2018	
S5 - Fakebook (1) - Response to incidents (BCP, AIDE, backups)	
Thu 01/03/2018	
S6 - Fakebook (1)	DELIVERABLE 1.2
Thu 08/03/2018	
S7 - Defence	
Thu 15/03/2018	
S8 - Presentación Módulo 2. Introducción a JSPs	
Thu 22/03/2018	
S9 - Fakebook (2) Security of web services (Apache, MySQL, SSL)	
Thu 29/03/2018	
EASTER HOLIDAYS	
Thu 05/04/2018	
S10 - Fakebook (2)	DELIVERABLE 2.1
Thu 12/04/2018	
S11 - Fakebook (2) Security of web applications (XSS, SQL injection)	
Thu 19/04/2018	
S12 - Fakebook (2)	
Thu 26/04/2018	
S13 - Fakebook (2)	DELIVERABLE 2.2
Thu 03/05/2018	
S14 - Defence	



Evaluation and Attendance

- ▶ Continuous evaluation system
- ▶ Two parts (4 points):
 - ▶ Part 1 (2 points)
 - ▶ Deliverable: I.1 0.75 points. February 15th 2018
 - ▶ Deliverable : I.2 0.75 points. March 1st 2018
 - ▶ Individual oral exam: 0.5 points. March 8th 2018
 - ▶ Part 2 (2 points)
 - ▶ Deliverable : 2.1 0.75 points. April 5th 2018
 - ▶ Deliverable : 2.2 0.75 points. April 26th 2018
 - ▶ Individual oral exam: 0.5 points. May 5th 2018
- ▶ Compulsory attendance for defence of assignments (2 days)
 - ▶ Weekly introduction to lab assignments



Digital signature of handed-in essays

► Digital certificates: How to obtain one?

► Use DNle

- ☐ Two certificates included
 - ☐ Authentication
 - ☐ Signature

► Applying for a digital certificate at <http://www.cert.fnmt.es>

► Registration authorities

- ☐ Universidad Carlos III de Madrid. Leganés.
 - ☐ (PIC) Campus Information Points
- ☐ Council Hall Leganés
- ☐ <http://callejero.telefonica.es/PuntosCercanos/index.jsp?client=fnmt>



Hints and tips

- ▶ Google it!!
- ▶ Continuous evaluation => continuous work
- ▶ Care for the details!!! Care about the content, structure and presentation of essays
 - ▶ Help documentation in AG2
- ▶ Justify and reason about decisions taken when completing the assignment.





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