



European Cyber Security Challenge

Greek National Cyber Security Team

Systems Security Laboratory (http://ssl.ds.unipi.gr/)

Member of the European Cyber Security Challenge Steering Committee

Department of Digital Systems, University of Piraeus

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Associate Professor Costas Lambrinoudakis

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What is about



- It is acknowledged that there is a growing need for IT security professionals worldwide
- To mitigate this shortage, many countries launch National Cyber Security Competitions
- The **aim** of these competitions are:
 - 1. Find new and young talents in cyber security
 - 2. Encourage young people to pursue a career in cyber security
- The European Cyber Security Challenge ECSC adds a Pan-European layer on these

National Competitions



The European Cyber Security Challenge - ECSC

- It is an initiative of the European Commission supported by ENISA
- Annually, the competition brings together young talents from European Countries to have fun and compete in cyber security
- The goal of ECSC is to place Cyber Security at the service of humankind
- Promoting:
 - An open, safe and secure cyberspace
 - A peaceful society with democratic values
 - Free and critical thinking
- A Cyber Security championship





This year is the 3rd contest

ECSC 2015

Edition: 1st

Place: Austria

· Participating teams: 6

· Competitors per team: 10

Winner: Austria





ECSC 2016

· Edition: 2nd

Place: Germany

· Participating teams: 10

· Competitors per team: 10

· Winner: Spain





ECSC 2017 will be hosted in Spain

- In Malaga, by Spanish National Cyber Security Institute (INCIBE)
- 30th October 3rd November 2017
- Participated Teams: 14
- Competitors per Team: 10







National Teams that will participate



Switcherland

Spain

United Kingdom

Romania

The Greek Participation

- The leadership for the Greek participation in ECSC 2017 was appointed to the Systems'
 Security Laboratory of the Department of Digital Systems of the University of Piraeus
 - Constitution of the Greek Team
 - Organization of the Greek participation
 - Financial administration Sponsorship
 - Dissemination
- The **Steering Committee** members are:
 - Prof. Christos Xenakis
 - Prof. Costas Lambrinoudakis









The Greek National Team



- 10 Persons Contestants
 - Should be selected by a National Competition
 - Should not be older than 25 years old and have the Greek citizenship
- One Coach (an additional may act as alternative) who is responsible for
 - Well-being and behavior of the Greek Team
 - Making sure that essential information reaches the Team and is understood
 - Organizing the Team's strategy
- A Jury representative
 - One from each country that assess the performance





Constitution of the Greek Team

- A National Competition will be carried at the Department of Digital Systems, University
 of Piraeus
- End of May beginning of June, 2017
- Looking for young, skilled and talented specialists in Cyber Security
 - Prevention (secure coding, vulnerability assessment, hardening, optimization, patching, etc.)
 - Detection & reaction (secure configuration, SIEM, Firewalls, IDS/IPS, network probing, etc.)
 - Forensic analysis (system & application-level of Windows, Linux and Android)
 - All phases of Cyber Kill Chain (Reconnaissance, weaponization, delivery, exploitation, installation command and control action on objective)
- Stay tuned ...





ECSC 2017 – Event Programme

Monday
30 th october

Networking event

Welcome cocktail

Tuesday
31 th october

Infraestructure testing

Comitee meeting

Recruiting fair

Special Dinner

Wednesday

1st november

Challenge

Recruiting fair

Team presentations

Deliberation of the members of the jury Thursday
2nd november

Optional day: networking day

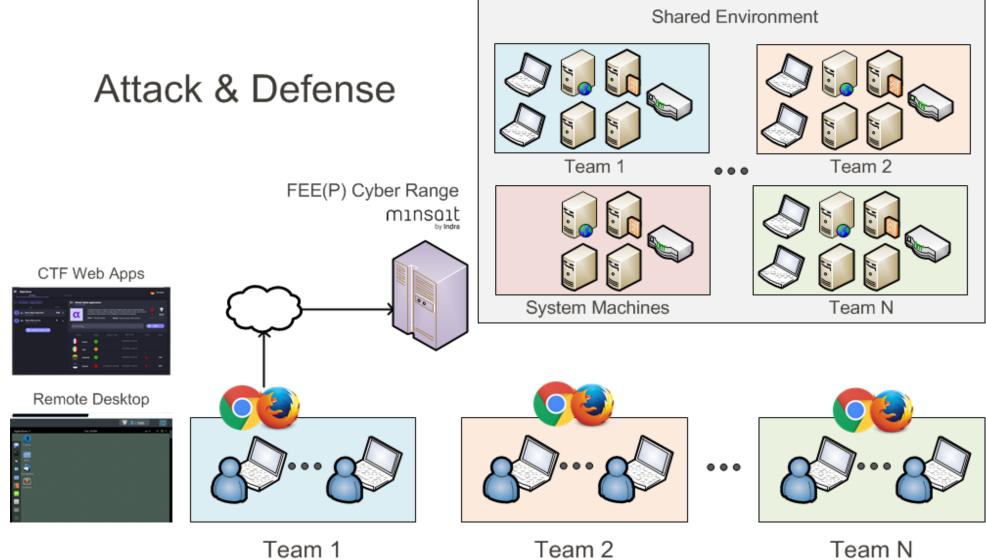
Competition

- It will be based on the **educational exercise Capture-The-Flag (CTF)**, which gives the participants experience in:
 - Securing a machine or an application
 - Conducting and reacting to attacks found in the real world
- Challenges will include:
 - Reverse engineering, network sniffing, protocol analysis
 - System administration, programming, cryptoanalysis
 - Web security, forensics, mobile security
- In both styles: (a) attack/defense and (b) Jeopardy





Competition - CTF

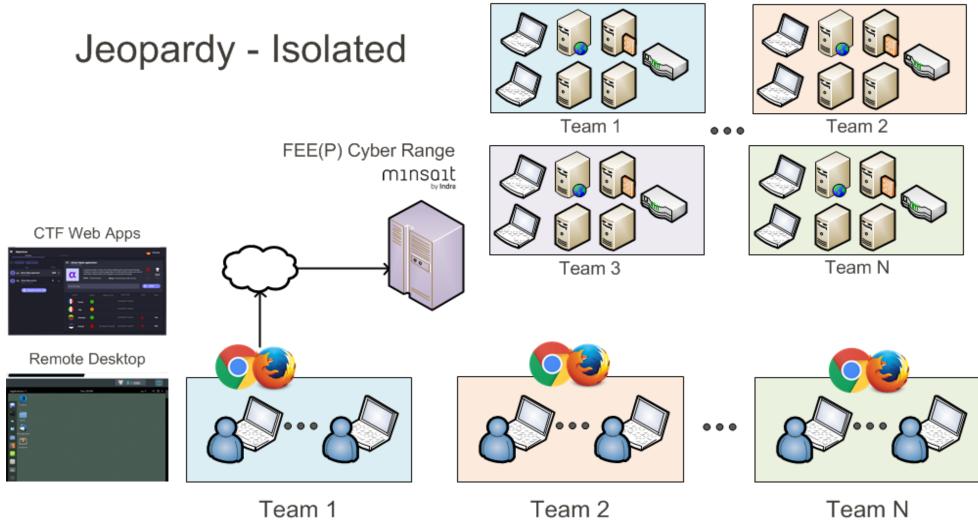


3/8/2017 Team 1

Competition - Isolated

Isolated Environments

13



Competition - Required skills



Milestones

National teams registration	January 2017
- Rules & prerequisites	March 2017
 Kick off meeting of the Steering committee 	March 2017
Sponsoring plan	April 2017
• Fee model & contract	April 2017
National Competition	June 2017
 National Team – contract sign 	June 2017
 Planning Conference ECSC 2017 – Athens 	June 2017
• ECSC 2017 Malaga, Spain	30 Oct. – 3 Nov. 2017

Costs / Needs associated with the our participation

- Funding is solely based on sponsorships
- Approx. 7.000 Euros for the participation of the Greek Team in the ECSC 2017
- <u>Travel</u> & <u>accommodation</u> expenses
- Equipment, at least 10 high-end laptops
- Technical contribution to the National Competition
- Team training, coaching, event hosting
- Supplementary equipment
- Promotion and Organization Expenses



Benefits from supporting the Greek Team

- ECSC 2017 will attract media attention
- Meet new and promising talents and explore recruitment opportunities
- Meet influencers and decision-makers in the InfoSec market
- Build a National cyber security network
- Establish strong and long lasting webs of trust among talented individuals
- Raising awareness on cyber security issues to non technical audiences







Sponsor Packs

Gold

- Sponsor's Logo will appear on the website of the Greek team
- Sponsor's Logo will appear on the brochures that will be available on the Greek stand
- Sponsor's Logo will appear on all announcements for the competition
- Sponsors will be mentioned in all press releases that will announce/promote the participation of the Greek Team to the competition

Platinum

- Sponsor's Logo will appear on the website of the Greek team
- Sponsor's Logo will appear on the brochures that will be available on the Greek stand
- Sponsor's Logo will appear on all announcements for the competition
- Sponsors will be mentioned in all press releases that will announce/promote the participation of the Greek Team to the competition
- Sponsors may distribute their own brochures during the final competition in Spain
- Sponsor's Logo will appear on the t-shirt of the Greek team

Diamond

- Sponsor's Logo will appear on the website of the Greek team
- Sponsor's Logo will appear on the brochures that will be available on the Greek stand
- Sponsor's Logo will appear on all announcements for the competition
- Sponsors will be mentioned in all press releases that will announce/promote the participation of the Greek Team to the competition
- Sponsors may distribute their own brochures during the final competition in Spain
- Sponsor's Logo will appear on the t-shirt of the Greek team
- Sponsor's Logo will appear on the lanyard of the Greek team
- Sponsor's Logo will appear on the Jacket of the Greek team
- One free pass for the final competition in Spain

The Greek Team of ECSC 2016 (got the 5th position)



ECSC 2016













Thank you!

Questions?

Prof. Christos Xenakis

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