



Niccolò Zazzeri
Trust-IT Services

The CYBERWISER.eu project
Cyberwatching.eu Webinar
29.10.2020



CYBERWISER.eu, in a nutshell

-  An **H2020 Innovation Action** aiming to become the EU's reference, authoritative, independent ***cyber range platform for professional training***.
-  From September 2018 through February 2021.
-  Featuring an **open pilot stream**, for you to get to use the CYBERWISER.eu platform (for free!) – Book your own pilot at <https://cyberwiser.eu/content/open-pilot-stream>

Atos

Trust-IT Services
Communicating ICT to markets



SINTEF



XLAB



UNIVERSITÀ DI PISA

FERROVIE
DELLO STATO
ITALIANE



AON



Our main end user targets



1.
Cybersecurity students at
IHEs and Early Career
Professionals



2.
SMEs and Mid-caps



3.
Large Enterprises and
Operators of Critical
Infrastructures



4.
Public Sector
Organisations

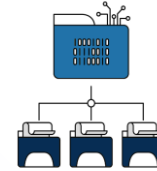
Cybersecurity challenges

- 🔒 Increased dependence on ICT systems in any business from any sector.
- 🔒 Increasingly aggressive cyber-landscape.
- 🔒 Need for highly-skilled professionals to cope with the quick evolution of the attacks.
 - 🔒 It is really difficult to catch up with the black-hat hackers
- 🔒 Need for better training capabilities.
 - 🔒 How to train highly-skilled and reliable cybersecurity professionals?
 - 🔒 Exercises need to be as immersive as possible
 - 🔒 The trainee needs accurate simulations of the environment they will protect, with as many details as possible
 - 🔒 The trainee needs exercises basing on situations he/she is likely to live in person in his real job, in which a quick reaction will be demanded in the context of an urgent scenario
 - 🔒 These environments are found difficult to afford in general

CYBERWISER.eu Objectives



Deliver a European Platform for cybersecurity professional training



3 full-scale pilots in key vertical markets & education and activate and manage the “Open Pilots Stream”.



Innovative cybersecurity training tools and materials



Develop a sustainability model for the CYBERWISER.eu training platform.



Create robust & insightful economic models for monetary exposure assessment to risk in virulent cyber climates



Develop and run the “Cybersecurity Professional Register” to promote cybersecurity capacity building in Europe

Contribute to the continuous development of a cybersecurity culture across EU society.

CYBERWISER.eu Training Offer

CYBERWISER.eu PRIMER

- Created for students or beginner-level professionals.
- At the primer offering level you can experience the CYBERWISER.eu **e-learning & communication tools** such as **Web Portal, Cross-Learning Facilities**.
- The Primer Offering Level gives you an **overall introduction to the cyber-risk analysis process**.
- The topics covered within this offering level are the **most common threats like phishing, ransomware and some cases of data leakage**.
- Additional topics to be covered are best practices on reducing insider threats and how to manage and set passwords.

CYBERWISER.eu BASIC

- Created for professionals that already know the basic concepts and best practices of cybersecurity.
- The basic Offering Level lessons include a structured approach to identifying and documenting security assets and cyber risks.
- CYBERWISER.eu cyber range environment **includes a wide amount of high realistical practical simulations**.
- At the basic offering level you can experience training scenarios composed by up to 10 elements.
- A set of monitoring sensors.
- A basic limited suite of pre-defined attack scripts.

CYBERWISER.eu INTERMEDIATE

- Created for expert users from business context as SMEs or Large Enterprises as well as Public Sector.
- Within the intermediate Offering Level are developed also aspects of **context establishment, cyber-risk assessment, cyber-risk treatment, and cost/benefit analysis not covered at the Basic level**.
- At this level are available training scenarios composed by up to 50 elements.
- A set of monitoring sensors tailored to specific exercises,
- A full suite of pre-defined attack with suggestions of possible countermeasures.
- A set of models that may be executed by Economic Risk Evaluator are also available.

CYBERWISER.eu ADVANCED

- Created for large organisations or public administrations that have more advanced cybersecurity training needs.
- The advanced Offering Level covers all aspects of context establishment and cyber-risk assessment, as well as cyber-risk treatment and cost/benefit analysis.
- At this level are available training scenarios composed by up to 500 elements.
- The Digital Library offers a full choice of virtual templates and the possibility of creating new ones.
- A set of monitoring sensors tailored to specific exercises,
- A full suite of pre-defined attack with suggestions of possible countermeasures.
- The risk assessment algorithm produces risk levels in terms of economical loss given that the risk materializes.

3 Full Scale Pilots supporting validation



Energy Generation
And Distribution



Railroad Transport










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Professional And
Academic Training

Practical use cases application in FSPs






Academic Pilot

-  SQL Injection
-  Firewall and Network Filtering
-  Network and Vulnerability Scan
-  Idle Scan
-  Privilege Escalation
-  AppArmor Defense
-  Session Hijacking

Transport Pilot

-  SQL Injection
-  Phishing attack
-  Password Cracking
-  Red team vs Blue Team (TBD)

Energy Pilot

-  SQL Injection
-  Cross-Site Scripting
-  Phishing Attack
-  Targeted Malware
-  Power outage

CYBERWISER.eu Training Path

FFSS - FSP2
CYBERWISER.eu Workspace > FFSS - FSP2

Group details

The pilot for transport companies sets out to show the potential and added value of CYBERWISER.eu through a scenario of business and cybersecurity experts led by the Italian railway company, Ferrovie dello Stato Italiane (FSI).

My Training Path

- File Repository
- FFSS - FSP2
Group Email: ffss@cyberwiser.eu
ffss@cyberwiser.eu
- Private - accessible only to group members
[Subscribe to news](#)
- Add new content
- Post to Group Mailinglist
- Add Group Event
- FFSS - FSP2 members
- Rec query
- Mario Rossi

Recent Activity

Type: Search by keyword contained in title | Surname

Post to Group Mailinglist

Activity

Test New Post
By Mario Rossi
text

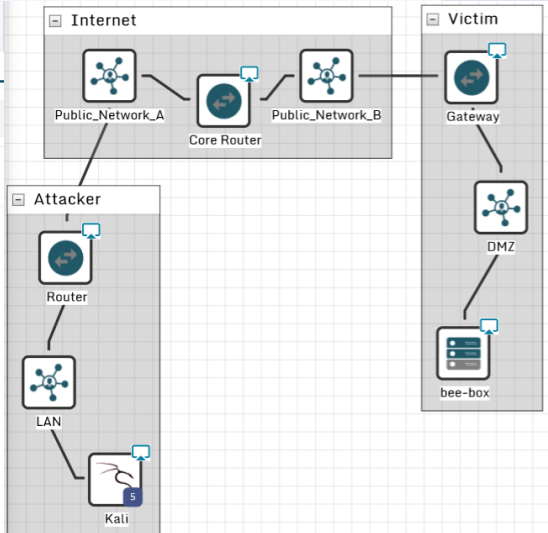
[All Recent Activity](#)

My courses > PRIMER

- Introduction to PRIMER Offer...
- P01 - Introduction to cyber-r...
- P02 - Awareness of Phishing
- P03 - Awareness of Password...
- P04 - Awareness of Ransomw...
- P05 - Awareness of Data Lea...
- P06 - Awareness of Insider T...
- P07 - Introduction to cyber-r...
- Quiz
- Certification
- Section 10

General

- Awareness of Phishing
- Hands-on Training
- Revision Quiz
- EXAM
- Diploma
- Certificate



Main feedbacks and results so far

Pros

More than a simple e-learning platform

Hands-on testing on a real virtual machine

Play both attacker and defender (added value)

Generally easy to use

Cons

System was a bit slow in responding

Visualisation issues in the cyber range

Technical support is needed

Opportunity: the Open Pilots Stream

Open Pilots Stream

- ✓ Train your staff for free!
- ✓ Fully customizable cyber training to meet your cybersecurity needs
- ✓ Get access to one of the most advanced Cyber Range platforms in the world

What is it?

An Open Pilot is your opportunity to train your staff in cybersecurity, for free, on the CYBERWISER.eu Capacity Building Cyber Range Platform. You will benefit from a customisable learning path based on your organisation's needs!

Who is it for?

Our Open Pilot Stream is dedicated to **SMEs, Research & Academia, Large Companies** and **any organisation** interested in testing our platform




While our training is directed primarily towards **IT personnel** who need to develop advanced skills in cybersecurity, training pathways have also been created for **individuals** from other, **non-technical areas** of an organisation.

How does it work?

It is very easy! All you need to do is following the steps below. Please note that the duration of your Training Pilot will be determined by the customised specifications we agree on. An introductory workshop is the ideal place for these discussions but you can also get the ball rolling by completing the application form here. The average length of an open Pilot is between 3 and 6 months.

 **Complete the form with the requirements of your own Pilot:**
<https://www.cyberwiser.eu/content/cyberwisereu-open-pilot-scheme>

What we will grant you as Open Pilot?

-  Onboarding package to use the platform (training material and dedicated interfaces)
-  Issued credentials to manage the instantiation of the platform for your specific Pilot
-  Continuous support by our Team





CYBERWISER.eu
Cyber Range & Capacity Building in Cybersecurity

Webinar Series - #3
19 November 2020, 16:00 CEST

Phishing
What is Phishing and how it works
Phishing Attack - cyber range exercise

LEARN MORE
Cyberwiser.eu

What you will learn:

-  Understand what a Phishing attack is, how it is structured, and what it affects.
-  Within the Phishing demo session, you will see a real simulation of a Phishing attack, the chain of events that it triggers, and its consequences.

What's in it for me?

By participating you can:

- Reserve your place as Open Pilot users of the CYBERWISER.eu solution
- Present your organisation to the webinar attendees in a dedicated session
- Discuss the specific needs of your cybersecurity training pilot with the CYBERWISER.eu team
- Meet virtually the cybersecurity experts from all over Europe and build your network

<https://cyberwiser.eu/events/cyberwisereu-webinar-series-3-phishing>

Thank you for your attention! *Questions?*

Main contact:

Niccolò Zazzeri, n.Zazzeri@trust-itservices.com

WP6 Leader

www.cyberwiser.eu

@cyberwiser



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