Cybersecurity Advanced Fundamentals: Technical & Strategic Approach

Prepare your business for the challenges of cybersecurity and the NIS 2 Directive

Dive into the heart of cybersecurity with our intensive two-day training, specially designed to transform theory and practice into concrete skills. Embark on a journey through the fundamental aspects and current challenges of computer security.

2 days of training to:

• **discover the fundamentals and advanced aspects of cybersecurity**, integrating the latest practices in risk management, network security, and compliance with regulations such as GDPR and NIS2.

• **learn to identify and counter internal and external threats**, while understanding methods of cryptography and appropriate countermeasures.

• **develop concrete expertise in computer security**, with tools and techniques to secure complex environments

Master the essential basics and advanced techniques of cybersecurity to protect your organization against modern threats.

Security is an integral part of the working environment of a network and systems administrator. It must be thought out and integrated into the early stages of network and system design, long before they are implemented. But for this, it is absolutely necessary **to understand the basic and advanced concepts of security**, whether they concern the threat environment around us or the risk approaches supposed to evaluate the relevance of protections or countermeasures. In addition, heterogeneous environments such as Hybrid-Cloud and **regulations such as GDPR/NIS 2** must be put into perspective in the face of cybersecurity challenges.

This first training will provide a good understanding of the key elements of cybersecurity and prepare your company or organization for the entry into force of Directive NIS 2. You can then follow more advanced training such as ISO 27001, NIS 2, etc.

Training Objectives

Participants in our cybersecurity training program will demonstrate their understanding of the basic principles that underpin and define cybersecurity, as well as the essential roles of cybersecurity professionals in protecting company data and infrastructure.

- Understand what the words "IT Security" & "Cyber Security" mean - Understand the "risk approach" methodology as well as the methods of evaluating it (both quantitative and qualitative) (e.g., octave, cobit, ISO2700x, ...)
- Understand the threats around us and the attacks that networks, systems, and cloud environments continuously suffer
- Understand and implement an effective and appropriate security approach in a complex IT environment (CSP, Security Wheel, ...)

Course Content - Security Definition - The three A’s of Security (including Auditing) - Assessing Security Risks - Security Threats - Security Policy - General Attack Methods (including Web Sites) - Security Countermeasures (including traffic flows, filtering, firewalling, security architecture, OT, ...) - Introduction to Cryptology - Other General Security Aspects Who is this training for? This training is aimed at anyone wishing to grasp the overall issue of Cyber-Security in order to strengthen the security of their organization. - System or network administrator responsible for infrastructure - People in charge of defining IT security strategies - IT Manager, Infrastructure Manager or CIO - DPO in charge of protecting medical or personal data (GDPR) Prerequisites - Technical understanding of computer environments - The following elements are assets to understand all the technical aspects that will be addressed: Technical experience in at least one server OS and a network platform Deep knowledge of network communication Course Support The presentation of the training will be distributed to all participants in the training in paper and digital format. Participants will receive during the training a series of readings to help them understand the concepts presented during the training. We will also share with you the most important European guides and regulations in electronic format. If your company has several employees requiring cybersecurity training or if you wish to train the COMEX and/or management, our on-demand training solutions, allow to customize the content to meet the specific needs and objectives of your teams. Our trainers are practitioners with extensive experience in their field, bringing their proven expertise in cybersecurity.