Zero Trust Architecture: Reducing Attack Surfaces

Duration: 1 day
Audience: Professionnel TI

Who is this training for?

- Security Architects
- CISOs
- IT Directors

Training objectives

- Understand the principles and components of Zero Trust.
- Design architectures that reduce attack surfaces.
- Implement ongoing authentication and authorization.
- Align Zero Trust with compliance requirements.

Summary

This course presents a structured approach to designing and implementing a Zero Trust architecture.

It addresses the protection of identities, networks and applications in order to reduce attack surfaces.

Course outline

Module 1: Zero Trust Fundamentals

- From Perimeter Security to Zero Trust.
- Principles: never trust, always verify.
- Core components: identity, devices, networks, applications.

Module 2: Design a Zero Trust Architecture

- Identity-centric security.
- Microsegmentation and network controls.
- Secure access to applications.

Module 3: Implementation Roadmap

- Steps for Gradual Adoption.
- Tools and technologies (Okta, Azure AD, Zscaler, etc.).
- Integration with existing infrastructure.

Module 4: Case Study and Governance

- Setting up a real ZTA.
- Alignment with policies and compliance.
- Monitoring and maintenance in a safe condition.

Approach and methodology

This course emphasizes a structured, design-oriented approach to security architectures, combining conceptual presentations with real-world case studies. Learning is centered around applying Zero Trust principles to real-world environments, including scenario analysis and implementation strategies. Progression allows participants to develop a global and operational vision to secure systems and reduce attack surfaces.

Prerequisites

- Knowledge of network and identity management.
- Familiarity with cybersecurity frameworks.

Recommendations

Review: network security concepts identity and access management (IAM)

Familiarize yourself with: the principles of modern cybersecurity hybrid environments (cloud and on-premises)

Identify your challenges: protection of access and sensitive data reduction of attack surfaces modernization of the security architecture