



## *Network security*

### **Description**

This training will help you to understand the weakness of the network protocols and what you can do to tight the network security. To understand the weaknesses of the network layers, practical cases will be used to show you different types of attacks and the best practices to protect the network. Also, we review the principal services running in the application layer and how to protect them.

### **Objectives**

In this training, you will understand the weaknesses of the OSI model, which the TCP/IP model is based, and implement the appropriate security measures to protect the network. Upon completion of this training you will be able to:

- Identify risks and threats related to network security
- Identify the types of attacks according to the network layers
- Understand the concept of defense in depth
- Understand attack methods
- Identify the main tools to ensure network security
- Identify threats and solutions offered for different network services (DNS, Web, corporate directory, etc.)
- Help you to convince your organization to invest in network security

### **Content**

The training activity will cover the following topics:

- Overview of network security
  - Network security risks
  - Network attacks
  - Defense in depth
  - Methodology of an attack
  - Security tools
- OSI and TCP / IP models
  - Difference between the 2 models
  - OSI model, layers (threats and control measures)
    - Physical Layer
    - Data Link Layer
    - Network Layer
    - Transport Layer
    - Session Layer
    - Presentation Layer
    - Application Layer



- Network services
  - Centralized authentication
  - Centralized directories
  - Configuration and management server
  - Communication services
  - Remote access services
  - Storage services
  - Data access services

Practical cases will be used to help you to assimilate the different topics presented in this training and to implement those within your organization.

### **Audience**

This training is intended primarily for someone who needs to implement network security or anyone else who is involved in.

### **Duration**

A day and a half.

This training can be customized to your organization to give you the best ROI.