

Network Security

Learn via: **Classroom / Virtual Classroom / Online**

Duration: **2 Day**

<https://bilginc.com/en/training/network-security-1134-training/>

Overview

Since all applications today heavily rely on communications and networks, there is no application security without network security.

This course focuses on network security with a software security viewpoint, and discusses common network attacks and defenses on different OSI layers, with an emphasis on application layer issues, tackling topics like session management or denial of service.

As cryptography is a critical aspect of network security, the most important cryptographic algorithms in symmetric cryptography, hashing, asymmetric cryptography, and key agreement are also discussed. Instead of presenting an in-depth mathematical and theoretical background, these elements are discussed from a merely practical, engineering perspective, showing typical use-case examples and practical considerations related to the use of crypto, such as public key infrastructures.

Prerequisites

There are no prerequisites for this course.

Who Should Attend

Network engineers and developers.

What You Will Learn

- Understand basic concepts of security, IT security and secure coding
- Learn about network attacks and defenses at different OSI layers
- Have a practical understanding of cryptography
- Understand essential security protocols
- Understand some recent attacks against cryptosystems
- Get information about some recent related vulnerabilities
- Get sources and further readings on secure coding practices

Outline

- IT security and secure coding
- Network security
- Practical cryptography
- Security protocols
- Cryptographic vulnerabilities
- Knowledge sources