

# DNS Security

## Description

We see that DNS servers that are located on the organization network but serve elements outside the organization by their nature have become important targets for attackers. Participants will be given detailed technical information about the attacks against the DNS protocol and the attacks carried out using this protocol and the measures to be taken regarding DNS security will be shared.

### Delegates will learn

- DNS
  - Attacks on DNS
  - Vulnerabilities on DNS
  - DNS Security
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## Outline

### DNS

- Principles of DNS operation
- DNS setup (BIND)
- Advanced DNS features
- Data that can be collected by attackers via DNS

### Attacks on DNS

- Visible DNS attacks

- Attacks targeting DNS
- Attacks using DNS
- Tools used in DNS attacks

### **Vulnerabilities on DNS**

- Vulnerabilities caused by DNS architecture
- Vulnerabilities caused by incorrect installation
- Vulnerabilities on the software
- Vulnerabilities resulting from DNS protocol

### **DNS Security**

- Detecting attacks against DNA
- Preventing attacks on DNS
- Responding to DNS attacks
- Using DNSSEC

## **Prerequisites**

There are no prerequisites