

## **Cyber-attacks against the organization. A primer for Management, Auditors, and non-technical staff**

### **Description:**

In this one-day class we will be covering the primary methods that an attacker might use against an organization. I will be performing and demonstrating live attacks against a mock environment and we will discuss what they are, how they work, and how to defend. The class attendees will see the attack and the results, and they will have opportunities to discuss the risk and security controls. They will also have the opportunity to perform some of same techniques to get firsthand knowledge and experience.

### **Background:**

Attackers have a variety of methods they can use to attack an organization. To understand how to implement proper security controls, it is important for stakeholders to understand that attacks and needs of organization to defend against them.

### **Equipment Needs:**

I strongly encourage all users to have a laptop in class for notes and research. You will be able to perform some techniques on your own computer.

### **Agenda:**

#### **Morning:**

- Passive information gathering
- Credential Harvesting
- Network Scanning
- Network Enumeration
- Vulnerability Scanning
- Phishing
- Physical attacks (hardware show and tell)

#### **Afternoon:**

- Password Attacks
- Configuration Attacks
- Web Attacks - Cross Site Scripting
- Web Attacks – File Inclusions
- Sql Injection Attacks
- Tools – Metasploit
- Tools – Other