

- **Vulnerability Management Fundamentals**
 - Maturity Levels
 - Lifecycle
 - Risk Model
 - Components
 - Roles and responsibility

- **Dynamic Asset Inventory**
 - The challenge
 - Sources of information
 - Data analysis and correlation
 - Known tools

- **NMAP Vulnerability Scanning and NSE**
 - NMAP fundamentals
 - NMAP OS Fingerprinting
 - NMAP vulnerability scanning
 - NMAP Scripting Engine (NSE)

- **Tenable Nessus Vulnerability Scanner**
 - Tenable products overview
 - Installation
 - System configuration
 - Basic Scanning
 - Advanced Scanning
 - Report Analysis
 - Compliance

- **Rapid7 Nexpose or InsightVM**
 - Installation
 - System configuration
 - Basic Scanning
 - Advanced Scanning
 - Report Analysis
 - Dashboards

- **Opensource & Free Vulnerability Scanners**
 - Microsoft MBSA
 - Scanning
 - Report Analysis
 - OpenVAS
 - Installation
 - Scanning
 - Report Analysis

- **Web Application Vulnerability Scanning with Opensource Tools**
 - Acunetix
 - Nikto
 - Wpscan
 - W3af
 - Zap Proxy
- **Vulnerability Research**
 - Public vulnerabilities databases
 - Public exploit databases
- **Effective Vulnerability Reporting**
 - Creating an aggregated report
 - Correlating data with assets priorities
 - Correlating data with exploit database
 - Charts and Graphs
- **Vulnerability Remediation Strategies**
 - Patch Management
 - Configuration Hardening
 - Continual Security Monitoring

