Hacking & Defending Active Directory

Category: Networking & Security | **Vendor:** TCM Security

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

One of the most common tools to structure and organize users and computers in a business environment is Microsoft’s Active Directory. However, Active Directory also happens to be one of the most exploited tools that hackers utilize to gain access to corporate networks. This live Active Directory training class will not only teach you the most common exploits hackers use to break into networks, it will also teach you the steps that you need to take to remediate and patch these exploits. You’ll gain practical skills and knowledge that can be immediately applied to secure your environment.

About This Course

One of the most common tools to structure and organize users and computers in a business environment is Microsoft’s Active Directory. However, Active Directory also happens to be one of the most exploited tools that hackers utilize to gain access to corporate networks. This live Active Directory training class will not only teach you the most common exploits hackers use to break into networks, it will also teach you the steps that you need to take to remediate and patch these exploits. You’ll gain practical skills and knowledge that can be immediately applied to secure your environment.

Who Should Attend

Hacking and Defending Active Directory is an excellent class for both defensive and offensive security personnel.

- System Administrators and IT Professionals
- Network Engineers and Administrators
- Organizations that require their teams to be proficient in Active Directory security to protect against cyber threats.
- Aspiring Penetration Testers and Cybersecurity Professionals
- Individuals looking for extra guidance as they study for the PJPT.
- Anyone looking to advance their knowledge, skills, and methodologies

Prerequisites & Entry Requirements

General Prerequisites:

This is a beginner level class, but students should have basic knowledge of computers and networking. CompTIA A+/Net+ knowledge equivalent or the free Practical Help Desk course in TCM Security Academy will prepare you to take this class.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Understand the structure and components of Active Directory, including both physical and logical elements Identify and defend against common pre-compromise Active Directory attacks such as LLMNR poisoning, SMB relay, IPv6 spoofing, AS-REP roasting, and passback attacks Use key post-compromise enumeration tools (e.g., BloodHound, PingCastle) to assess AD environments and recognize common administrative misconfigurations Analyze and defend against post-compromise attacks including Kerberoasting, token impersonation, credential dumping, and persistence techniques Adopt an attacker’s mindset to better anticipate and mitigate real-world AD exploitation tactics Apply lessons from real penetration test case studies to strengthen Active Directory security posture

Detailed Course Outline

Active Directory Overview

- What is Active Directory?
- Physical Active Directory Components
- Logical Active Directory Components

Pre-Compromise AD Attacks and Defenses

- LLMNR Poisoning Attacks and Defenses?
- SMB Relay Attacks and Defenses?
- IPv6 Attacks and Defenses?
- AS-REP Roasting Attacks and Defenses?
- Passback Attacks and Defenses?
- Inside the Attacker’s Mindset?

Post-Compromise AD Enumeration

- Reviewing common enumeration tools, such as: Bloodhound, Plumhound, Pingcastle, ldapdomaindump, and much more
- Understanding common mistakes from an Administrator’s perspective

Post-Compromise AD Attacks and Defenses

- Pass Attacks and Defenses
- Kerberoasting Attacks and Defenses
- Token Impersonation Attacks and Defenses
- URL File Attacks and Defenses
- GPP Attacks and Defenses
- Credential Dumping Attacks and Defenses
- Persistence Attacks and Defenses
- Inside the Attacker’s Mindset – Revisited

AD Case Studies

- Real case studies from real pentests AKA “How they got owned”

Upcoming Schedule

Available training dates for Hacking & Defending Active Directory:

Start Date	End Date	Location	Delivery	Price
11 Dec 2026	11 Dec 2026	Online	Virtual	€699.00

Frequently Asked Questions

Q: What delivery options are available for Hacking & Defending Active Directory?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 1-day Hacking & Defending Active Directory course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Hacking & Defending Active Directory training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Hacking & Defending Active Directory?

Yes, we provide corporate training, dedicated training, and closed classes for Hacking & Defending Active Directory. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Hacking & Defending Active Directory?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Hacking & Defending Active Directory training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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