

INTERNATIONAL

LIVE ONLINE COURSE

A two day course in English ONLINE

BloodHound - Visualizing and Evaluating Critical Attack Paths in Active Directory Environments (upon request in French – handout in English)

Your trainer is Jean-Damien Douillard Requirements: Basic Active Directory knowledge & understanding

A course participation is possible from any PC/lap top with a stable internet connection. You don't need additional software. We recommend the use of Google Chrome if possible. If not, please use Firefox and Edge on Chrome basis. We recommend a direct internet connection. Access via VPN can lead to qualitative restrictions which are out of our area of influence. Access to the training will also take place via your browser. Exercises can be implemented without additional software. The course will of course be transmitted live from the ERNW studio. The course material as well as possible demos and of course the trainer are always visible and will be shown depending on the requirements or will be emphasized. We will provide the training material electronically before the start of the course. The trainer will answer questions live. The microfone and/or camera are optional. You can also ask questions via chat.

Description

This course is designed to enable you to identify critical object relationships within your Active Directory enterprise environment. Active Directory is at the heart of practically all organizations, and gaining control of Active Directory asset is often what an attacker is looking for after corporate post-exploitation scenarios. BloodHound is a visualization and evaluation tool designed to graph Active Directory attack paths and visualize Active Directory in the way an attacker would see it. Thinking in graphs allow defenders to better understand the complexity of object relationships, identify weak spots (vulnerabilities) to be mitigated, and improve their overall security posture of an Active Directory environment.

Think of the following questions:

- Are you responsible for administrating or securing a complex Active Directory environment?
- Do you want to know how many tier 2 users have a path to your tier 0 assets?
- Do you want to know if your Exchange ACLs open an attack path to your domain controllers and how these paths look like?

If the answer to these questions is "yes", then this course has everything you need to use Blood-Hound efficiently in your environment. The course is designed to be hands-on with many practical lessons and covers everything from understanding / performing a basic installation of BloodHound, building basic queries, visualizing object relationships / potential attack paths to more advanced topics like using custom add-ons or automating the whole process of using BloodHound (data collection, ingestion, first analysis etc.). BloodHound has been successfully used in many complex Active Directory environments to visualize critical attack paths that could lead to a full Active Directory compromise. Our trainer will share his experience, lessons learned, tips & tricks and pitfalls from using BloodHound in complex enterprise environments to efficiently identify critical relationships and derive appropriate mitigating controls.

05.-06. Oktober 2021, ONLINE

Various institutions will acknowledge this course as a re-certification measure.

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Course Agenda

o Data Collectiono Ingestiono First Analysis

Introduction **Using BloodHound in** ■ What is BloodHound? **Complex Active Directory Environments** Graph DB: Concept & Terminology Lessons Learned Pitfalls **BloodHound Basics** Tips & Tricks Installation / Requirements Nodes & Edge Types Edge Abuse Information You should attend if you want to: o Default/ACL/Container/Special Understand Active Directory from an attacker Data Collection & Ingestion o Technical Information Identify critical object relationships in your o Practical Steps environment User Interface Think in Graphs o Components & Features Learn BloodHound UI functionalities o Viewing Nodes, Paths and Relationships Learn Cypher query language building blocks Cypher Basics (UI) Learn how to extract metrics out of Blood-What is Cypher? Hound data Node Queries Build your own custom Cypher queries ☐ Path Queries Extend tool capabilities via REST API **Advanced BloodHound Features Target Groups** Build-In Queries □ Red/Blue Teams Attack Path Reduction Methodology Active Directory Security Consultants Tips & Tricks Active Directory Security Administrators Active Directory Operations Team **Advanced Cypher Features** Adding/Updating/Deleting data Calculating Metrics Debugging Queries **Extending BloodHound** REST API Basics CypherDog WatchDog Automating BloodHound

HM TRAINING SOLUTIONS ON-SITE SERVICE

All HM Training Solutions Seminars are available as On-Site presentations, tailored to meet the specific requirements of your organisation. For details please telephone +49 (0) 6022 508 200 (international).

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Why you should attend

- Understand Active Directory from an attacker POV
- Identify critical object relationships in your environment
- Think in Graphs
- Learn BloodHound UI functionalities
- Learn Cypher query language building blocks
- Learn how to extract metrics out of BloodHound data
- Build your own custom Cypher queries
- Extend tool capabilities via REST API

Target Groups

- Red/Blue Teams
- Active Directory Security Consultants
- Active Directory Security Administrators
- Active Directory Operations Team

■ Biography Jean-Damien Douillard

Jean-Damien Douillard began his journey into Windows / Active Directory security back in 2010 at a fortune 500 company. Since 2018 he is part of the Microsoft Security Team at ERNW GmbH where he focuses on attack path visualization via BloodHound and PowerShell scripting. He presented on various conferences (e.g. PSConf) all around the globe where he shares his insights and knowledge. He is one of the leading experts in the industry for BloodHound and the author of the well-known Dog Whisperer Handbook.

REGISTRATION DETAILS

Three Ways to Register

By Post: Please complete and return this form to HM

Training Solutions.

By Fax: Please fax this registration form to:

+49 6022 508 9999.

By e-Mail: Info@hm-ts.de
Per Webseite: https://www.hm-ts.de/

Registration Fees

€ 1,990 + VAT 19%

Joining Instructions

Your booking will be confirmed by e-mail containing full event details. The price includes the course documentation as pdf, access to the online platform and the issuing of a certificate.

Change of Terms

It may be necessary for reasons beyond our control to alter the venue, timetable or content of this seminar or to appoint another speaker alternatively or to cancel the event. We accept no liability for any other cost.

Cancellations

Should you need to cancel your booking please confirm in writing either by email (info@hm-ts.de), fax (+49 6022 508 9999) or post. No refunds will be considered for cancellations occurring withing six weeks of the start of the event. However, we are happy to accept substitutions at any time; prior notice is appreciated

On-Site Presentations

All HM Training Solutions seminars are available as on-site presentations tailored to meet the specific requirements of your organisation. For more information please call +49 (60 22) 508200.



The number of delegates is limited. Therefore please immediately return this booking form

REGISTRATION FORM

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	0506.	Oktober	2021.	ONLINE
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Please reserve	places at a cost of 1,990 €
+ VAT 19% per partici	pant

Mr/Mrs/Miss/Other	First Name	Last Name
Postcode	City	
Country		
Telephone		
Mobile number		
E-Mail		
Signature		

BOOKING REFERENCE: M66eng

You will receive the course documentation as pdf before the beginning of the course.

Payment

Uneque enclosed for €	
☐ Please invoice my company	
Invoice address (if different)	

Purchase order no.

M Additional Registrations

1. Mr/Mrs/Miss/Other	First Name	Last Name
Job Title		
2. Mr/Mrs/Miss/Other	First Name	Last Name
Job Title		
3. Mr/Mrs/Miss/Other	First Name	Last Name

Job Title