

Matta Applied Hacking & Technical Countermeasures



Level 1

Course Agenda & Information

Introduction

As an independent Information Risk Management company, **Matta** represents the new breed of Security Consultants. Our training programmes are designed to be amongst the best that money can buy. There are strict limits on the numbers of attendees - half that of some other courses. **Matta** doesn't accept "sponsorship" from vendors - the tools and techniques you learn comprise best of breed, and quick & dirty. Without any unnecessary padding to fill the day, we aim to focus and challenge, and leave you at the end significantly enlightened.

Matta has found that by enabling its clients' key members of staff (usually network operations or IT management personnel) through security training programmes, it is possible for them to effectively run their own security operations on a daily basis. By specialising in attack & penetration, and techniques adopted by hackers and crackers to compromise networks 'in the wild', **Matta** offers a unique insight to our clients and partners, which will in turn help them to manage their own networks in a secure fashion.

Course Overview

Applied Hacking & Technical Countermeasures Level 1 is an entry-level two day course in practical applied hacking; covering network and system security from a completely technical standpoint, with live hands-on examples and a mock corporate network containing Unix-based and Windows servers for attendees to compromise during capture the flag exercises.

The course is designed to appeal to those with a sound knowledge of technical security issues. A good understanding of Internet protocols (TCP, UDP, ICMP) and operating platform internals (Windows NT, Linux, Solaris) is a pre-requisite to those who wish to make the most of this course. **Matta** assumes that attendees have had some exposure to hacking techniques and methodologies. In order to ensure that all attendees have a similar level of knowledge, a **technical primer** is delivered free-of-charge before the course date.

Through highlighting the risks to networks and the Internet, attendees will understand how attacks are launched at a highly technical level, and how effective defences can be implemented to negate the risks of such attacks.

The **Level 2** applied hacking course continues this highly technical track, and covers topics in detail, allowing for attendees to completely understand the technical issues behind stack and heap overflows, and low-level networking attacks.

Course materials presented to each attendee include:

- Printed and bound booklets covering all the technical examples
- A unique CD containing all of the security utilities and tools used
- Morning & afternoon refreshments and lunch are also provided
- Along with a networked workstation for live hacking segments

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Day 1 Agenda

- 09:00** Course registration & coffee
- 09:30** Introduction
- An overview of the risks and threats
 - The hacker underground
 - The anatomy of an attack
- 11:00** Break and discussion
- 11:30** Technical Attack & Penetration
- Defining the legal boundaries
 - Reconnaissance techniques
 - Network scanning techniques
 - Vulnerability investigation & research techniques
 - Live examples of techniques
- 13:00** Lunch
- 14:00** Network Reconnaissance
- Passive NIC / WHOIS & DNS querying
 - Active ICMP & TCP / UDP scanning
 - Live examples of reconnaissance
- 15:30** Break and discussion
- 16:00** Live use of the Matta A & P toolkit
- Using NIC & DNS query tools
 - Using ICMP probing tools
 - Using TCP port scanning tools
 - Stealth scanning techniques
- 17:30** Finish of Day 1

Day 2 Agenda

- 09:00** Morning coffee
- 09:30** Application Security
- Why vulnerable software?
 - Buffer overflows explained
 - DoS attacks explained
 - Categorisation of vulnerabilities
- 11:00** Break and discussion
- 11:30** Windows 2000 capture the flag
- TCP port scanning
 - Identifying vulnerable services
 - Investigating vulnerabilities
 - Exploiting vulnerabilities
 - Installing backdoors and deleting logs
- 13:00** Lunch
- 14:00** Linux / Unix-based capture the flag
- TCP port scanning
 - Identifying vulnerable services
 - Investigating vulnerabilities
 - Exploiting vulnerabilities
 - Installing backdoors and deleting logs
- 15:30** Defensive strategies discussion
- Firewall configuration
 - IDS deployment
 - Server hardening
 - Honeypot and decoy tactics
- 17:30** Finish of Day 2

Course Dates and Booking Information

Due to positive feedback from our clients regarding this two day course, we are capable of running sessions in-line with demand. For information of the latest openings for attendees to book course places, please contact the **Matta** on **08700 77 11 00**, or e-mail courses@trustmatta.com

The standard price per attendee for this course is **£1500.00** (£1762.50 including VAT). A **15% discount** of £500.00 is available if you book both **Level 1 & 2** courses at the same time, for the total sum of **£2500.00** (£2937.50 including VAT). Please contact us for more details.

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Level 1

Course Registration Form

Company Name
& Address

Level 1 Course Date

Level 2 Course Date

Attendee Name

Contact Telephone Number

Total Amount Due (ex VAT)

Client Reference / PO Number

£

Matta Security will produce an invoice subsequent to receiving this signed registration document. Payment must be made in advance of attending the course. Full Matta Security terms and conditions are available upon request. The signing party must be authorised to sign-off the total amount indicated above.

Signature

Please fax this page back to Matta for processing on 08700 77 11 01