

# Matta Applied Hacking & Technical Countermeasures



## Level 2

### 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 2** is an advanced technical track for security and network operations personnel who require a clear understanding and deep knowledge of the latest security threats to their networks in order to effectively manage their risk. This two-day course builds on the concepts and techniques introduced in the **Level 1** course, covering in technical detail the following key elements:

- Circumvention of security mechanisms upon compromising a host, including the use of IP spoofing and session hijacking, and ARP techniques
- Low-level network assessment of firewalls and stateful filtering devices
- In-depth detail of application layer vulnerabilities, including detailed information about stack overflows, heap overflows and other problems

This advanced track is designed to appeal to those with a thirst for further technical knowledge. A good understanding of Internet protocols (TCP, UDP, ICMP) is required, and knowledge of Unix-based environments and some ANSI C or C++ programming experience is beneficial. For delegates to attend this course, they must attend and complete the **Level 1** standard track first.

#### 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** Short Re-Cap from Level 1
- An overview of the risks and threats
  - Attack & penetration methodology
  - Network scanning techniques
- 11:00** Break and discussion
- 11:30** Attack & Penetration Exercise
- Advanced network mapping
  - Identification of vulnerable services
  - Approach discussion
  - Creation of exploit scripts
  - Observation discussion
- 13:00** Lunch
- 14:00** Advanced Application Security
- Stack overflows
  - Heap overflows
  - Identifying vulnerabilities
  - Writing exploit tools and scripts
- 15:30** Break and discussion
- 16:00** Assessing application security
- The mock e-commerce environment
  - Real examples of sites with problems
  - Recommendations secure code development
- 17:30** Finish of Day 1

#### Day 2 Agenda

- 09:00** Morning coffee
- 09:30** Advanced Attack & Penetration
- How to effectively assess networks
  - Knowing what to look for
  - Advanced DNS & NIC techniques
  - Advanced network scanning
- 11:00** Break and discussion
- 11:30** Local network manipulation
- ARP spoofing
  - ICMP redirect spoofing
  - IP spoofing & hijacking
  - Low-level filter assessment
- 13:00** Lunch
- 14:00** Network manipulation workshop
- Using ARP to sniff switched networks
  - Compromising live IP sessions
  - Using compromised details
  - Live hacking segment
- 15:30** Other security considerations
- Hardware surveillance devices
  - Switch and VLAN security
  - Social engineering segment
- 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](mailto: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.

## Matta Applied Hacking & Technical Countermeasures



### Level 2 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