COURSE

MikroTik

Certified Security Engineer (MTCSE)





Carlos Otín Senior Network Engineer de Hotelinking

Trainer

Telecommunications Technical Engineer,
CCNP (Cisco Certified Network Professional),
UEWA (Ubiquiti Enterprise Wireless Admin),
UBRSS (Ubiquiti Broadband Router and
Switching Specialist), MTCWE (MikroTik
Certified Wireless Engineer), MTCSE (MikroTik
Certified Security Engineer), MikroTik Trainer....

Certification MikroTik MTCSE	Duration 2 days (12 hours)
Dates October 22 and 23	Price €500 Subsidized training for companies is available (more information on request: admin@hotelinking.com)

Course location and schedule

The course will take place at **Parc Bit**, from **9:00 AM** to **6:00 PM**, with a one-hour lunch break.

Outcomes

By the end of this training session, the participant will be able to plan and implement appropriate security measures suitable for the network at hand.

Target audience

Network engineers and technicians wanting to deploy and maintain secure MikroTik device.

Course prerequisites

MTCNA certificate

Title	Objective
Module 1 Introduction	 Attacks, mechanisms and services The most common threats RouterOS security deployment Module 1 laboratory

Objective
 Packet flow, firewall chains Stateful firewall RAW table SYN flood mitigation using RAW table RouterOS default configuration Best practices for management access Detecting an attack to critical infrastructure services Bridge filter Advanced options in firewall filter ICMP filtering Module 2 laboratory
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Title	Objective
Module 3 OSI Layer Attacks	 MNDP attacks and prevention DHCP: rogue servers, starvation attacks and prevention TCP SYN attacks and prevention UDP attacks and prevention ICMP Smurf attacks and prevention FTP, telnet and SSH brute-force attacks and prevention Port scan detection and prevention Module 3 laboratory

Title	Objective
Module 4 Cryptography	 Introduction to cryptography and terminology Encryption methods Algorithms - symmetric, asymmetric Public key infrastructure (PKI) Certificates Self-signed certificates Free of charge valid certificates Using the certificates in RouterOS Module 4 laboratory

Title	Objective
Module 5	 Port knocking Secure connections (HTTPS, SSH, WinBox)
Securing the router	 Default ports for the services Tunneling through SSH Module 5 laboratory

Title	Objective
Module 6	Introduction to IPsec
Secure Tunnels	 L2TP + IPsec SSTP with certificates Module 6 laboratory



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