

Duration: 2 days

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 based networks.

Course prerequisites: MTCNA and MTCRE certificates

Title	Objective
	Threats, mechanisms, attacks and services
Module 1	The most common threats
Introduction	RouterOS security deployment
	Module 1 laboratory
	Module Flaboratory
Module 2	Packet flow, firewall chains
Firewall	Stateful firewal
Tirewan	RAW table
	SYN flood mitigation using RAW table
	RouterOS default configuration
	Best practises for management access
	Detecting an attack to critical infrastructure services
	Bridge filter
	Advanced options in firewall filter
	ICMP filtering
	Module 2 laboratory
	AMIDD at 1 at 2
Module 3	MNDP attacks and prevention
OSI Layer Attacks	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
	Port knocking
Module 4	Secure connections (HTTPS, SSH, WinBox)
Securing the Router	Default ports for the services
Noutei	Tunneling through SSH
	Module 4 laboratory
Module 5	• L2TP/IPsec
Secure Tunnels	• IPsec
	SSTP with certificates
	Module 5 laboratory