

MTCSE

Table 1. MikroTik Certified Security Engineer

Раздел	Содержание
Introduction	<ul style="list-style-type: none">• Attacks, mechanisms и services• The most common threats• RouterOS security deployment
Firewall	<ul style="list-style-type: none">• 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
OSI Layer Attacks	<ul style="list-style-type: none">• MNDP attacks и prevention• DHCP: rogue servers, starvation attacks и prevention• TCP SYN attacks and prevention• UDP attacks и prevention• ICMP Smurf attacks и prevention• FTP, telnet и SSH brute-force attacks и prevention• Port scan detection и prevention
Cryptography	<ul style="list-style-type: none">• Introduction to cryptography и terminology• Encryption methods• Algorithms - symmetric, asymmetric• Public key infrastructure (PKI)• Certificates<ul style="list-style-type: none">◦ Self-signed certificates◦ Free of charge valid certificates◦ Using the certificates in RouterOS
Securing the Router	<ul style="list-style-type: none">• Port knocking• Secure connections (HTTPS, SSH, WinBox)• Default ports for the services• Tunneling through SSH

Раздел	Содержание
Secure Tunnels	<ul style="list-style-type: none">• Введение в IPsec• L2TP + IPsec• SSTP with certificates