

MikroTik Certified User Management Engineer



Online Course

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Course Modules

1. PPP

- PPP Profile
 - Local and remote addresses
 - Incoming and outgoing filters
 - Address list
 - Change TCP-MSS
 - Use encryption
 - Session timeout
 - Rate-limit configuration
 - Only-one setting
- PPP Secret
 - Service and Profile
 - Local and Remote address
 - Routes configuration
 - Limit Bytes In/Limit Bytes Out configuration
- IP Pool
 - Set addresses ranges
 - Next pool options



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2.PPTP, L2TP

- PPTP and L2TP
 - Theory
 - Comparison
- PPTP Client configuration
 - Client setup
 - Set profile
 - Dial on demand
 - Add default route and static routes
- PPTP Server configuration
 - Enable server
 - Setup profiles
 - Add clients to PPP secret
 - Set static interfaces for clients
- L2TP Client configuration
 - Client setup
 - Configure profile
 - Dial on demand
 - Add default route and static routes
- L2TP Server configuration
 - Enable server
 - Set profiles
 - Add clients to PPP secret
 - Set Static interfaces for clients



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3.PPPoE

- PPPoE server and client
 - Theory
 - Usage environment
 - Comparison to other PPP protocols
- PPPoE client configuration
 - Client setup
 - Select interface
 - Service name
 - Configure profile
- PPPoE Server configuration
 - Enable PPPoE server
 - Set profiles
 - Add clients to PPP secret
 - Add Static interfaces for clients
 - Secure server by removing any IP addrs from PPPoE server interface
- Encryption
 - Set profile without encryption
 - Set profile with encryption
 - Configure PPPoE client without encryption
- Interface ECMP
 - Set ECMP routes for PPP interfaces



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4. Bridging

- L2TP and EoIP
 - Set L2TP tunnel
 - Set EoIP tunnel
 - Create bridge and add necessary interfaces to ports
 - Confirm you have Ethernet connectivity between remote nodes
- L2TP and VPLS
 - Set L2TP tunnel
 - Set VPLS tunnel
 - Create bridge and add necessary interfaces to ports
- L2TP and BCP
 - Set L2TP tunnel
 - Use BCP to bridge PPP interface
 - Add to bridge necessary interface
- Multilink Protocol
 - Enable multilink by specifying correct MRRU settings
 - Disable mangle rules for MSS adjustment
- MLPPP (optional)
 - Setup client and specify multiple interfaces for one client
 - Set PPPoE server with MLPPP support



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5.IPsec

- Introduction
 - Theory and concepts
 - Comparison to other VPN protocols
- IPsec Peer
 - Use different authentication methods
 - IPsec exchange modes
 - Encryption and hash algorithms
 - NAT-Traversal
 - Lifetime and lifebytes
 - DPD protocol
- Policy
 - IPsec protocol and action
 - Tunnels
 - Generate dynamic Policy
- Proposal
 - Encryption and authentication algorithms
 - Lifetime
 - PFS
- Installed-SA
 - Flush SA



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- Create IPsec between two routers with NAT
 - Set peer
 - Set policy
 - Set NAT rules
 - Confirm the secure link is established

6. HotSpot

- Introduction
 - Concepts
 - Usage environments
 - Setup HotSpot with default settings
- HotSpot Login Methods
 - HTTP CHAP/PAP
 - MAC
 - Cookie
 - HTTPS
 - Trial
 - RADIUS
 - Users
 - Add users
 - Set MAC-address for user
 - Set MAC-address for username
 - Limit Uptime and Limit Bytes In/Out
 - Reset limits for user



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- Monitor Users
 - Host Table
 - Active Table
 - SNMP for users
- Profile
 - Keepalive timeout
 - Shared users
 - Rate-Limit
 - Address-list
 - Incoming/Outgoing filter
 - Incoming/Outgoing Packet Mark
- Bypass HotSpot
 - Walled garden
 - Walled garden IP
 - IP binding
- Customize HotSpot
 - Advertisement
 - Customize pages



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7. RADIUS

- RADIUS client
 - Add radius client
 - Set service
 - Use RADIUS for the specific service
- RADIUS server
- User manager
 - Install the latest user-manager
 - Add routers
 - Add users
 - Set profile
- RADIUS incoming

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