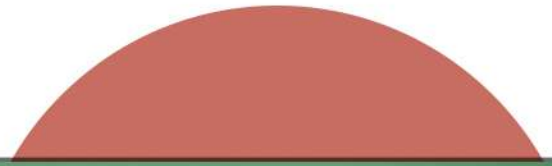


MikroTik Certified Network Associate



Online Course



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Course Modules

1.Introduction

- About MikroTik
 - What is RouterOS
 - What is RouterBOARD
- First time accessing the router
 - WinBox and MAC-WinBox
 - WebFig and Quick Set
 - Default configuration
- RouterOS command line interface (CLI)
 - Null Modem cable
 - SSH and Telnet
 - New terminal in WinBox/WebFig
- RouterOS CLI principles
 - <tab>, double <tab>, "?", navigation
 - Command history and its benefits
- Initial configuration (Internet access)
 - WAN DHCP-client
 - LAN IP address and default gateway
 - Basic Firewall - NAT masquerade



2.DHCP

- DHCP server and client
 - DHCP client
 - DHCP server setup
 - Leases management
 - DHCP server network configuration
- Address Resolution Protocol (ARP)
 - ARP modes
 - RouterOS ARP table

3.Bridging

- Bridging overview
 - Bridge concepts and settings
 - Creating bridges
 - Adding ports to bridges
- Bridge wireless networks
 - Station bridge

4. Routing

- Routing overview
 - Routing concepts
- Route flags
- Static routing
 - Creating routes
 - Setting default route
 - Managing dynamic routes
 - Implementing static routing in a simple network

5. Wireless

- 802.11a/b/g/n/ac Concepts
 - Frequencies (bands, channels) data-rates / chains
- Setup a simple wireless link
 - Access Point configuration
 - Station configuration
- Wireless Security and Encryption
 - Access List
 - Connect List
 - Default Authenticate
 - Default Forward
 - WPA-PSK, WPA2-PSK
 - WPS accept, WPS client



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- Monitoring Tools
 - Snooper
 - Registration table

6.Firewall

- Firewall principles
 - Connection tracking and states
 - Structure, chains and actions
- Firewall Filter in action
 - Filter actions
 - Protecting your router (input)
 - Protection your customers (forward)
- Basic Address-List
- Source NAT
 - Masquerade and src-nat action
- Destination NAT
 - dst-nat and redirect actions
- FastTrack





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in terms of time management,
flexibility, and the ability
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