



Introduction to MikroTik RouterOS and RouterBOARDS

Training outline

Duration: 1 day

Objectives: By the end of this training session, the attendant will be familiar with RouterOS software and RouterBOARD products. He/she will understand how to do basic configuration and troubleshooting of a MikroTik router.

Target audience: Anyone who wants to learn how to use and configure MikroTik routers.

Course prerequisites: It is recommended that the attendant is familiar with TCP/IP networking fundamentals.

Title	Objective
Module 1 Introduction	<ul style="list-style-type: none"> • About MikroTik • What is RouterOS • RouterOS license levels • What is RouterBOARD • RouterBOARD model overview
Module 2 Quick Set	<ul style="list-style-type: none"> • Default configuration • First time accessing the router <ul style="list-style-type: none"> • WinBox, MAC-WinBox, WebFig, MikroTik mobile app • Quick Set mode overview • Home AP usage <ul style="list-style-type: none"> • Internet (automatic, static, PPPoE) • Local network • Wireless, guest wireless • WPS • VPN access (L2TP) <ul style="list-style-type: none"> ▪ DynamicDNS (ipcloud) • CPE usage <ul style="list-style-type: none"> • Configuration (router, bridge) • Wireless • Upgrading RouterOS • Setting a password • Setting the identity • Quick Set in WebFig
Module 3 Basic Firewall	<ul style="list-style-type: none"> • Demonstration of firewall principles <ul style="list-style-type: none"> • Structure, chains and actions • Firewall filters in action <ul style="list-style-type: none"> • Default filters • Filter actions • Source NAT <ul style="list-style-type: none"> • Masquerade and src-nat action • Destination NAT <ul style="list-style-type: none"> • dst-nat and redirect action

<p>Module 4 Management</p>	<ul style="list-style-type: none">• Managing configuration backups<ul style="list-style-type: none">• Saving and restoring a backup• Downloading a backup file to the computer• Difference between a .backup and an export (.rsc) file• Resetting a RouterOS device• RouterOS tools<ul style="list-style-type: none">• Ping, traceroute• RouterOS monitoring<ul style="list-style-type: none">• Interface traffic monitor• Torch• Graphs• Sources of additional information<ul style="list-style-type: none">• wiki.mikrotik.com• mum.mikrotik.com• forum.mikrotik.com• Distributor and consultant support• Contacting support@mikrotik.com<ul style="list-style-type: none">• supout.rif, autosupout.rif and viewer• System logs, enabling debug logs• Readable configuration (item comments and names)
<p>Module 5 Training</p>	<ul style="list-style-type: none">• Overview of training courses and MikroTik certification program<ul style="list-style-type: none">• MTCNA• MTCRE• MTCWE• MTCTCE• MTCUME• MTCINE• MTCIPv6E• MTCSE