

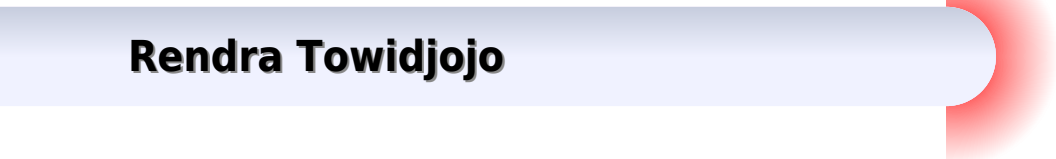


## **MikroTik RouterOS V2.6 Basic Setup Guide**

MikroTik

# Mikrotik User Manual

**Rendra Towidjojo**



## **Mikrotik User Manual:**

**MikroTik Scripting** Nigel Bowden, MikroTik Scripting will teach you how to use the power of the MikroTik RouterOS scripting language to extend the functionality and support the administration of your MikroTik device We ll explore topics such as Automation of repetitive configuration tasks Executing administrative tasks at timed intervals Creating new functionality customised for your environment Interrogation and logging of performance and status information The book starts with the basics of scripting and progresses through an extensive range of topics allowing you to build run and debug scripts on our MikroTik device We ll explore questions such as What is scripting and how can it help me How do I create and run scripts on a MikroTik device What script creation workflow should I use What commands and syntax should I use to create scripts How can I debug my scripts As you explore each topic you ll create a series of scripts that increase in sophistication to reflect your growing scripting knowledge on your learning journey All scripts shown in this book are available for download from GitHub You ll be able to download a copy of each script and run it for yourself to see first hand how it works Each of the scripts you ll create is a software program written using the MikroTik scripting language Although this book isn t intended to teach you how to become a software developer it covers some of the basic concepts you ll need if you re not familiar with developing code Who is this book for This book is for anyone who wishes to learn how to create scripts for the MikroTik platform including Network engineers who are familiar with deploying MikroTik hardware and wish to create their own custom features for their network environment Network and software engineers who are involved with network automation and would like to automate tasks in their MikroTik environment Network operations departments who would like to automate alerts using self monitoring scripts on MikroTik devices If you ve been searching for a single resource to teach you how to create your own MikroTik scripts then you ll find MikroTik Scripting extremely useful It s also a valuable reference guide to keep on your bookshelf for future scripting work *FreeRADIUS Beginner's Guide* Dirk Van der Walt,2011-09-08 Manage your network resources with FreeRADIUS by mastering authentication authorization and accounting *MikroTik MTCNA* Ehab Abo Elazm,2025-01-29 The MTCNA MikroTik Certified Network Associate is the first step in the MikroTik certification path It is a foundational certification required before studying any other MikroTik certifications This book is designed to help you understand the official MTCNA certification syllabus covering the fundamentals of MikroTik technologies in a simple and clear way It includes step by step explanations diagrams and practical examples and labs in both GUI and CLI using the latest version of RouterOS v7 Whether you are new to MikroTik technology and want to learn it or are aiming to get certified this guide is the right start It will help you understand the course content and pass the exam with confidence **The Home Network Manual** Marlon Buchanan,2022-02-21 Learn everything you need to know about perfecting your home network in one simple guide Do you need to build or upgrade your home network but aren t sure where to begin Would you like your home network to be fast stable and secure After reading The Home

Network Manual you'll know The components that make up a home network The right way to set up a home network from scratch Which devices will give you the best home network Tips for making your home network fast How to have reliable Wi-Fi throughout your home How to diagnose and fix common home network problems How to secure your home network from hackers And so much more Having a fast stable and secure home network is more important now than ever After reading this book you'll be equipped with all the tools and information you need to have the trouble free fast and secure home network you need If getting every device in your home on your home network has been a chore or if you're putting up with situations like your video streaming services buffering every few moments your online games kicking you because your Wi-Fi drops or your Zoom sessions fuzzing out and freezing into that impossible to understand robot voice then you need to read this book Keep yourself and your family safe in the digital age Make sure everything is running the best it can and learn what you need to know about your home network Troubleshoot your issues and be the hero that saves your family grief in their day to day online experiences

**MikroTik HotSpot Server** Rendra Towidjojo, 2017-07-28 Mengelola jaringan dan akses Internet dengan berbagai macam karakteristik pengguna user bukanlah perkara yang mudah Apalagi jika terdapat pengguna dengan kategori tidak biasa yang selalu menghabiskan resource jaringan Pekerjaan ini menjadi lebih rumit karena pada umumnya pengelolaan dilakukan berdasarkan IP Address maupun MAC Address dari perangkat yang digunakan pengguna Sehingga Administrator jaringan cenderung sulit untuk membedakan pemakaian akses Internet antara pengguna yang satu dengan yang lainnya Hotspot Server merupakan salah satu fitur yang dimiliki oleh Router MikroTik yang ditujukan untuk mempermudah pengelolaan jaringan Saat Hotspot Server diaktifkan setiap pengguna harus memasukkan username dan password untuk bisa menggunakan akses jaringan maupun akses Internet Sehingga Administrator jaringan akan mudah melakukan pengelolaan jaringan karena mampu mengenali setiap pengguna berdasarkan username yang digunakannya Hotspot Server akan memberikan berbagai kemudahan pengelolaan jaringan Pengguna jaringan akan dapat dibatasi waktu aksesnya berapa lama akses Internet diberikan pembatasan quota akses download maupun upload alokasi bandwidth untuk setiap pengguna akses Internet yang dapat dibedakan antar pengguna berapa banyak perangkat yang dapat digunakan dan berbagai fitur lainnya yang akan sangat memudahkan pekerjaan Administrator jaringan Buku ini merupakan buku yang membahas instalasi dan konfigurasi Hotspot Server Pembahasan akan dimulai dari sistem yang sangat sederhana sampai pada contoh skenario jaringan yang cenderung rumit Berbagai parameter konfigurasi Hotspot Server akan dibahas detail beserta hasil apa yang didapatkan jika parameter parameter tersebut diaktifkan Pada bagian akhir buku ini disertakan pembahasan User Manager yang umumnya digunakan sebagai pelengkap Hotspot Server Semua pembahasan fitur Hotspot Server akan disertai langkah dan contoh konfigurasi

Mastering Network Flow Traffic Analysis Gilberto Persico, 2025-06-05 DESCRIPTION The book aims to familiarize the readers with network traffic analysis technologies giving a thorough understanding of the differences between active and passive network traffic analysis and the advantages and

disadvantages of each methodology It has a special focus on network flow traffic analysis which due to its scalability privacy ease of implementation and effectiveness is already playing a key role in the field of network security Starting from network infrastructures going through protocol implementations and their configuration on the most widely deployed devices on the market the book will show you how to take advantage of network traffic flows by storing them on Elastic solutions to OLAP databases by creating advanced reports and by showing how to develop monitoring systems CISOs CIOs network engineers SOC analysts secure DevOps and other people eager to learn will get sensitive skills and the knowledge to improve the security of the networks they are in charge of that go beyond the traditional packet filtering approach WHAT YOU WILL LEARN Implement flow analysis across diverse network topologies and identify blind spots Enable flow export from virtualized VMware Proxmox and server environments Ingest and structure raw flow data within Elasticsearch and Clickhouse platforms Analyze flow data using queries for patterns anomalies and threat detection Understand and leverage the network flow matrix for security capacity insights WHO THIS BOOK IS FOR This book is for network engineers security analysts SOC analysts incident responders network administrators and secure DevOps professionals seeking to enhance their network security skills beyond traditional methods A foundational understanding of network topologies the OSI and TCP IP models basic network data capture concepts and familiarity with Linux environments is recommended TABLE OF CONTENTS 1 Foundation of Network Flow Analysis 2 Fixed and Dynamic Length Flow Protocols 3 Network Topologies 4 Implementing Flow Export on Layer 2 Devices 5 Implementing Flow Export on Layer 3 Devices 6 Implementing Flow Export on Servers 7 Implementing Flow Export on Virtualization Platforms 8 Ingesting Data into Clickhouse and Elasticsearch 9 Flow Data Analysis Exploring Data for Fun and Profit 10 Understanding the Flow Matrix 11 Firewall Rules Optimization Use Case 12 Simple Network Anomaly Detection System Based on Flow Data Analysis

Machine Learning for Cyber Security Xiaofeng Chen,Xinyi Huang,Jun Zhang,2019-09-11 This book constitutes the proceedings of the Second International Conference on Machine Learning for Cyber Security ML4CS 2019 held in Xi an China in September 2019 The 23 revised full papers and 3 short papers presented were carefully reviewed and selected from 70 submissions The papers detail all aspects of machine learning in network infrastructure security in network security detections and in application software security

Journal Mikrotik Nikmah Daulae, S.Pd. MTA,2021-02-16 Adapun materi yang dimuat dalam buku ini adalah Introduction mikrotik DHCP Bridging Routing Wireless Firewall QOS Tunnels Misc Buku ini merupakan panduan bagi SMK yang sudah memiliki mikrotik academy maupun yang belum Pembahasan pada buku ini berbentuk lab yang mudah dipahami oleh siswa khususnya anak SMK jurusan teknik computer jaringan Oleh sebab itu kami juga ingin menyampaikan rasa terima kasih yang sebesar besarnya kepada semua pihak yang telah membantu kami dalam pembuatan jurnal ini

Panduan Singkat Menguasai Router Mikrotik untuk Pemula Athailah,2013-01-01 Punya jaringan di rumah Usaha warnet Mengelola jaringan komputer di

kantor Di beberapa kantor sekolah hotspot area publik dan tempat tertentu biasanya ada beberapa batasan ketika mengakses sebuah jaringan Misalnya tidak bisa mengakses situs tertentu terhubung ke jaringan tapi tidak bisa mengakses internet internetnya ada yang dapat jatah cepat atau lambat dan sebagainya Bagaimana mengatur semua itu Kita bisa menggunakan mikrotik Bagi Anda yang bekerja mengelola jaringan wajib menguasai hal ini Apakah rumit mengoperasikannya Jika ada panduan serumit apapun tentu bisa dipelajari Milikilah buku ini Anda akan tahu bagaimana serunya mengelola sebuah jaringan MediaKita

**Konfigurasi Mikrotik Untuk Pemula** Arief Wahyudin, 2020-07-18

Konfigurasi Mikrotik Untuk Pemula adalah buku yang sangat cocok digunakan untuk Anda yang ingin memulai belajar Mikrotik Buku ini sebagian besar mengacu pada Outline MTCNA dan MTCRE yang ada di websites resmi MikroTik <https://mikrotik.com/training/about> Di dalam buku ini dibahas mulai konfigurasi addressing firewall web proxy wireless bridge switch routing tunnel hotspot quality of services dan beberapa tips and tricks dalam menggunakan mikrotik Buku ini masih sangat jauh dari kata sempurna karena penyusunannya adalah hasil praktik secara mandiri oleh karena itu saya selaku penulis buku ini sangat mengharapkan masukan untuk meningkatkan bobot dari buku ini agar kedepannya dapat diperbaiki menjadi lebih baik dan dapat membantu bagi siapa saja yang ingin belajar MikroTik

**Mikrotik MTCNA TEACHER** M. Sigit Laksono, 2020-01-25 ini adalah ebook yang berisi 42 Lab tidak menerangkan teori secara mendalam yang terkesan membosankan isi workbook ini diambil dari kurikulum MTCNA Mikrotik Training Certified Network Associate yang terstruktur untuk yang ingin belajar dari dasar hingga advance materi terdiri dari introduction mikrotik firewall network management bridge wireless hotspot QoS Routing Dll buku ini dibuat oleh siswa kami yang sudah bersertifikat kelas advance Mikrotik yaitu MTCRE

**The Only Networking Book You Will Need** The Only Networking Book You Will Need, You are passionate about networks you love IP addresses the OSI model you would like to spend the rest of your life working with networking devices and Infrastructure but you think it's too difficult or you have no idea where to start Do you like Cisco Ubiquiti MikroTik etc but don't know which to study From the author of the bestselling book The MikroTik RouterOS Workbook renowned Instructor David Gonzalez comes THE BIBLE of Data Networks If you like networking and want a starting point this book will guide you through and through from the basic concepts to the more advanced If you want to get certified with Cisco MikroTik Ubiquiti this is your book You can get ready and study for the CCNA 200 301 certification exam or the MikroTik MTCNA certification The Only Networking Book You Will Need Is your go to resource Did you know that anyone can learn networks from scratch with The Only Networking Book You Will Need Everything you need to know from What is a Network to dynamic routing protocols Network Devices OSI Model TCP Model Network Cabling Network Topologies Network Protocols IP Addressing IP Routing VLSM Subnetting NAT IPv6 and many more topics Learn as it is with entertaining but always insightful approach easy to understand terminology theory and practical examples that you can follow along at your own pace Hundreds of topics in the most complete compendium yet written And the best this book does

not only cover Cisco it eatures all the concepts learned also implemented in MikroTik so it is not a Cisco book but a networking book with Cisco stuff for anyone it doesn't matter your education level whoever wants to take their careers to the next level and whoever wants to learn about networks and be successful in this growing market *Jaringan Komputer Menggunakan Mikrotik RouterOS* Indra Laksmiana, Syukriadi, Romy Aulia, Teddy Yuliswar, Trinovita Zuhara, 2023-01-18

**Mengenal Mikrotik "Router Berbasis PC"** Ika Atman Satya, Ir., Teknologi Jaringan berkembang dengan sangat cepat akhir-akhir ini. Seiring dengan perkembangan ini, maka perlu adanya manajemen yang baik terhadap infrastruktur jaringan tersebut agar dapat dimanfaatkan dan berjalan dengan maksimal. Perkembangan penggunaan router berbasis Open Source juga berkembang dengan pesat. Termasuk pemanfaatan PC lama menjadi suatu yang lebih berguna seperti menjadi router VPN device dan berbagai service lainnya. Mikrotik merupakan salah satu alternatif penggunaan PC lama menjadi router dan mampu bersaing dengan router komersial lainnya. Mikrotik router performanya cukup baik dan berdasar percobaan yang penulis lakukan. Mikrotik yang dijalankan di atas Dell Gxa PII 266 Mhz RAM 128MB hardisk dengan CF IDE 128MB dengan menggunakan kartu Ethernet berbasis Realtek 8139 mampu memforward traffic Layer 3 tanpa firewall sampai di atas 25 Mbps. Suatu hal yang menarik Mikrotik RouterOS memasukan beberapa tool seperti Netwatch, Scheduler dan Script yang dapat membuat Mikrotik menjadi pintar dan dapat berreaksi terhadap kondisi yang telah diperkirakan oleh Network Administrator. Misal memindahkan gateway mengirim email ke network administrator saat ada gangguan akses ataupun ada keanehan trafik jaringan dan masih banyak lagi.

**Panduan Lengkap Mikrotik: Dari Pemula hingga Profesional (MTCNA)** Yastril Ilyas, S.Kom, MTCINE, ACTR, 2025-05-01. eBook Mikrotik ini menyajikan panduan lengkap bagi pemula untuk memahami dan menguasai konfigurasi jaringan menggunakan MikroTik RouterOS. Di dalamnya pembaca akan menemukan langkah-langkah praktis dalam pengaturan IP routing dasar, firewall, hingga manajemen bandwidth serta belajar tunneling. Materi disusun berdasarkan standar sertifikasi MTCNA dan dilengkapi ilustrasi konfigurasi yang mudah dipahami.

**ICT for Intelligent Systems** Jyoti Choudrie, Eva Tuba, Thinagaran Perumal, Amit Joshi, 2024-09-26. This book gathers papers addressing state of the art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining, and software analysis. It presents the outcomes of the 8th International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2024) held in Las Vegas, USA. The book is divided into six volumes. It discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and practitioners alike.

**Mikrotik Kung Fu : Kitab 1 (Edisi 2019)** Rendra Towidjojo, 2023-05-28. Buku ini EDISI KE 3 atau EDISI 2019 ini adalah edisi pembaharuan dari edisi sebelumnya 2016 yang mengikuti perkembangan terbaru dari Router Mikrotik yang terus berkembang. Buku ini dapat digunakan untuk pemula Router Mikrotik dan untuk Anda yang sudah sering menggunakan Router Mikrotik. Walaupun berisi konfigurasi konfigurasi Router Mikrotik, namun tetap membahas dasar teori yang berkaitan dengan konfigurasi tersebut agar setelah membaca buku

ini Anda dapat mengembangkan sendiri konfigurasi Router MikroTik sesuai dengan kondisi jaringan yang Anda hadapi Adapun acuan dari materi di buku ini adalah bahan sertifikasi MTCNA MikroTik Certified Network Associate Konfigurasi dasar Router MikroTik dalam membagi koneksi Internet dan Konfigurasi DHCP Server Konfigurasi Firewall Filter dengan chain forward untuk mengatur akses Internet yang bisa didapatkan oleh komputer user Konfigurasi Wireless Network yang membahas bagaimana membangun jaringan Wireless Hotspot atau WiFi mengaktifkan fitur security di jaringan wireless dan pemanfaatan fitur Virtual Access Point Konfigurasi Hotspot Server untuk melakukan manajemen pengguna jaringan dengan menggunakan halaman login page login atau landing page Konfigurasi Manajemen Bandwidth dengan menggunakan Simple Queue sehingga komputer user dapat berbagi bandwidth Internet secara wajar dan adil Easy and Practice PPPoE Server, VPN PPTP, Bandwidth Management, Mikrotik Hotspot with Mikrotik RouterBoard Azrieal Akbar Zackiansyah, 2022-07-22

BAB 1 APA ITU MIKROTIK 1 A PENGERTIAN MIKROTIK 1 B SEJARAH MIKROTIK 1 C JENIS JENIS ROUTER MIKROTIK 2 D FUNGSI MIKROTIK 3 E MACAM MACAM FITUR MIKROTIK 4 F KELEBIHAN DAN KEKURANGAN MIKROTIK 6 G MIKROTIK ACADEMY 6 BAB 2 BASIC CONFIGURATION MIKROTIK 8 A PENDAHULUAN 8 B STEP BY STEP 8 BAB 3 KONFIGURASI MIKROTIK MENJADI WIRELESS ACCESS POINT WAP 26 A PENDAHULUAN 26 B STEP BY STEP 26 BAB 4 KONFIGURASI MIKROTIK HOTSPOT 5GHZ DENGAN SIMPLE MODE 35 A PENDAHULUAN 35 B JENIS JENIS HOTSPOT 35 C STEP BY STEP 36 BAB 5 KONFIGURASI MIKROTIK HOTSPOT 2 4GHZ DENGAN SIMPLE MODE 51 A PENDAHULUAN 51 B STEP BY STEP 51 BAB 6 KONFIGURASI MIKROTIK HOTSPOT DENGAN USER MANAGER 66 A PENDAHULUAN 66 B STEP BY STEP 67 BAB 7 KONFIGURASI PPPOE SERVER 88 A PENDAHULUAN 88 B STEP BY STEP 89 BAB 8 KONFIGURASI VPN PPTP 107 A PENDAHULUAN 107 B STEP BY STEP 108 BAB 9 BANDWIDTH MANAGEMENT 116 A PENDAHULUAN 116 B STEP BY STEP BANDWIDTH MANAGEMENT DENGAN SIMPLE QUEUES 117 C STEP BY STEP BANDWIDTH MANAGEMENT DENGAN QUEUE TREE 122 D STEP BY STEP MEMISAHKAN TRAFFIC SESUAI KEBUTUHAN 127 BAB 10 BLOCKING 138 A PENDAHULUAN 138 B STEP BY STEP BLOCKING SITE 139 C STEP BY STEP BLOCKING FILE 147 D STEP BY STEP BLOCKING GAME 151 BAB 11 BACKUP RESTORE KONFIGURASI MIKROTIK 158 A PENDAHULUAN 158 B STEP BY STEP BACKUP MANUAL 159 C STEP BY STEP BACKUP OTOMATIS 161 D STEP BY STEP RESTORE KONFIGURASI 170 DAFTAR PUSTAKA 171

Kebutuhan akan internet menjadi hal yang sangat lumrah untuk ditemui pada kehidupan masyarakat di era teknologi digital saat ini Banyak sekali opsi atau cara untuk membuat konfigurasi sistem operasi jaringan pada perangkat komputer MikroTik adalah salah satu cara untuk dapat mengembangkan paket layanan internet agar dapat digunakan dalam berbagai perangkat komputer yang tersedia MikroTik merupakan salah satu teknologi yang biasa digunakan untuk mengembangkan layanan internet yang ada menjadi beberapa paket sehingga bisa digunakan oleh berbagai perangkat komputer MikroTik adalah teknologi jaringan yang dipakai untuk menyediakan layanan internet dengan menjadikan suatu komputer sebagai router jaringan admin Sebagian besar layanan ini dipakai oleh

perusahaan yang memberikan layanan pembuatan jaringan komputer baik skala kecil maupun skala yang lebih besar Buku ini sangat direkomendasikan untuk pembelajaran bagi siswa siswi mahasiswamahasiswa ataupun juga rekan rekan Administrasi Infrastruktur Jaringan yang akan mempelajari tentang MikroTik untuk mempermudah dalam proses Implementasi di dalam perusahaan maupun instansi dikarenakan penulis berusaha semaksimal mungkin agar bahasa dalam buku ini mudah dipahami      **Mikrotik Tutorial** ,

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web whale sharks are highly migratory and it is thought that their movement is associated both with abundance of food in the area as well as breeding behaviors scientists are still researching the life cycle of whale sharks but it is believed that male whale sharks begin maturing around 17 years old and females around 19 22 years old

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