

hEX



hEX (RB750Gr3)

First use

1. Choose your powering solution, please see [Powering](#) section for possibilities.
2. Connect your Internet cable to port 1 (labeled "Internet"), and local network computers to ports 2-5.
3. Connect your direct input power jack if not using PoE, to start up the device.
4. If using PoE please see section [PoE Adapter](#) on how to connect.
5. The device will boot up and after a short beep, the network will be available for connecting.
6. Set your computer IP configuration to automatic (DHCP).
7. Once connected to the network, open <https://192.168.88.1> in your web browser to start configuration, since there is no password by default, you will be logged in automatically.
8. We recommend clicking the "Check for updates" button and updating your RouterOS software to the latest version to ensure the best performance and stability.
9. Set up your password on the screen that loads.

Mounting

This device is designed for use indoors by placing it on the flat surface or mounting on the wall, mounting points are shown in the picture below, screws are not included in the package. Screws with size 4x25 mm fit nicely. Depending on your wall structure you can use 6x30 mm and 6 mm drill bit if needed.

When mounting on the wall, please ensure that the cable feed is pointing downwards. We recommend using Cat5 cable for our devices. The IP rating scale for this device is IP30.



Powering

The device accepts power from the power jack, or from the first Ethernet port (Passive PoE):

- Direct input power jack (5.5mm outside and 2mm inside, female, pin positive) accepts 8-30 V ~DC.
- The first Ethernet port accepts passive Power over Ethernet 8-30 V ~DC. 12 V or more is recommended to compensate for the loss in cables.

The power consumption of this device under maximum load with attachments is 10 W. Without attachments 5 W.

Bootling process

RouterOS includes many configuration options, in addition to what is described in this document. We suggest starting here to get yourself accustomed to the possibilities: <https://mikrotik.com/help>. In case IP connection is not available, the Winbox tool (<https://mikrotik.com/winbox>) can be used to connect to the MAC address of the device from the LAN side (all access is blocked from the Internet port by default).

For recovery purposes, it is possible to boot the device from the network, see a section [Reset button](#).

Extension Slots and Ports

- The device has five individual Ethernet ports, supporting automatic cross/straight cable correction (Auto MDIX), so you can use either straight or cross-over cables for connecting to other network devices.
- microSD card slot.
- USB type-A slot.

Buttons and jumpers

Reset button

The RouterBOOT reset button has the following functions. Press the button and apply the power, then:

- Release the button when a green LED starts flashing, to reset RouterOS configuration to defaults.
- Release the button when the LED turns solid green to clear all configuration and bridge all interfaces.

Mikrotik Manual

Yastril Ilyas,S.Kom,MTCINE,ACTR



Mikrotik 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 *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 sapa saja yang ingin belajar MikroTik [MTCNA Lengkap \(Teori dan Praktik\)](#) Alex Pranozal, S.T., Buku ini merupakan pegangan bagi peserta training MTCNA di Sakti IT Buku ini cocok bagi pemula yang menggunakan MikroTik Buku ini dilengkap dengan teori dan straight to do point tidak bertele tele Disamping itu juga dilengkapi dengan panduan praktik step by step sehingga mudah diikuti **Mikrotik Tutorial , FreeRADIUS**

Beginner's Guide Dirk Van der Walt, 2011-09-08 Manage your network resources with FreeRADIUS by mastering authentication authorization and accounting

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

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

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

Perspectives and Trends in Education and Technology João Vidal Carvalho, António Abreu, Eusébio Ferreira da Costa, Enrique Vázquez-Justo, Hernán Viguera Figueroa, 2024-11-29 This book from the LNNS Series is composed of the best selected papers accepted for presentation and discussion at the 2024 International Conference in Information Technology Education ICITED 24 The ICITED is a multidisciplinary conference with a special focus on new Technologies and Systems in the Education sector and was held between July 11 and 13 2024 The ICITED 24 was supported by the Pernambuco University

Recife Brazil and by IADITI International Association for Digital Transformation and Technological Innovation The International Conference in Information Technology Education is an international forum for researchers and professionals in the education sector which enables the discussion of the latest innovations trends and concerns in several areas in the education sector associated with information technologies and systems It is an event for professionals in the sector in search of technology solutions where academics IT experts and business managers meet to discuss new ideas that help them maximize the potential of learning processes through technology The ICITED 24 Scientific Committee is composed of a multidisciplinary group of 143 experts who assessed some 262 papers from 26 countries received for each of the main topics proposed for the conference The papers accepted for presentation and discussion at the conference are published by Springer and will be submitted for indexing by ISI SCOPUS EI Compendex Google Scholar and SpringerLink

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Networks and Systems in Cybernetics Radek Silhavy, Petr Silhavy, 2023-07-14 The Networks and Systems in Cybernetics section continues to be a highly relevant and rapidly evolving area of research encompassing modern advancements in informatics and cybernetics within network and system contexts This field is at the forefront of developing cutting edge technologies that can tackle complex challenges and improve various aspects of our lives The latest research in this field is featured in this book which provides a comprehensive overview of recent methods algorithms and designs The book comprises the refereed proceedings of the Cybernetics Perspectives in Systems session of

the 12th Computer Science Online Conference 2023 CSOC 2023 which was held online in April 2023 The book offers a unique opportunity to explore the latest advances in cybernetics and informatics and their applications in a range of domains It brings together experts from various disciplines to share their insights and collaborate on research that can shape the future of our world One of the key themes of this section is the application of cybernetics in intelligent systems This area has significant potential to revolutionize a range of industries Researchers are exploring how cybernetic principles can be used to create intelligent systems that can learn adapt and optimize their performance over time *Mikrotik Kung Fu : Kitab 4*

Rendra Towidjojo,2023-05-30 NOTE SEBELUMNYA TERDAPAT KESALAHAN UPLOAD PDF YANG SAAT INI SUDAH DIPERBAIKI Buku ini merupakan kelanjutan dari buku MikroTik Kung Fu Series Untuk MikroTik Kung Fu 4 atau Seri Terakhir ini Akan Membahas Tentang Berbagai implementasi routing maupun Load Balancing yang mampu dilakukan Router MikroTik Untuk Kitab 4 sebagai Kitab Final pembahasan akan difokuskan pada beberapa hal yaitu Konsep Routing dan Load Balancing Static Routing Open Shortest Path First Single Area maupun Multi Area Border Gateway Protocol Non Transit AS Equal Cost Multi Path ECMP Policy Based Routing PBR Nth Per Connection Classifier PCC Jaringan yang baik selain harus bisa memilih jalur terbaik Best Path menuju tujuan juga harus bisa memanfaatkan jalur jalur yang tersedia Load Balancing

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 **MikroTik HotSpot Server** Rendra Towidjojo,2024-12-15 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

Mikrotik Kung Fu : Kitab 3 Edisi Revisi Rendra Towidjojo, 2023-05-29 Buku ini merupakan kelanjutan dari buku MikroTik Kung Fu Series Untuk MikroTik Kung Fu 3 ini pembahasan akan difokuskan pada manajemen bandwidth Semua itu tidak terlepas dari betapa pentingnya menerapkan manajemen bandwidth pada saat akan membangun jaringan Untuk Kitab 3 ini pembahasan akan difokuskan pada beberapa hal yaitu Konsep Quality of Service QoS Packet Flow Diagram RouterOS v6 dan v5 Classification packet dan marking packet yang disertai fitur content dan L7 Protocol Manajemen bandwidth dengan Simple Queue maupun Queue Tree Penggunaan Per Connection Queuing PCQ sebagai salah satu metode queue selain First In First Out FIFO Konfigurasi queue saat jaringan menggunakan Internal Web Proxy maupun External Web Proxy biasanya masalah utama bukan karena bandwidth yang tidak cukup karena bandwidth tidak akan pernah cukup namun hanya masalah bagaimana anda bisa mengatur mana paket yang penting dan mana yang tidak mana yang perlu didahulukan dan mana yang tidak

Workbook Mikrotik MTCRE Full Lab Yastril Ilyas, S.Kom, MTCINE, ACTR, 2021-10-23 Buku ini disusun sesuai kebutuhan teman teman yang ingin berkarir di dunia routing engineer khususnya vendor mikrotik karena membahas dari sangat nol routing hingga advance routing protocol OSPF yang paling populer diunakan oleh perusahaan ISP apabila teman teman mencari teori pemahaman dasar mendetail Maka silahkan tutup buku ini kemudian mencari buku bertema konsep OSPF yang banyak di internet karena buku ini full lab routing Vlan dan Tunnel pembahasan tunnel sangat lengkap sesuai dengan best practise di industri

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

Jaringan Komputer Menggunakan Mikrotik RouterOS Indra Laksmiana, Syukriadi, Romy Aulia, Teddy Yuliswar, Trinovita Zuhara Jingga, 2023-01-18

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INSTALLASI DAN KONFIGURASI PERANGKAT JARINGAN MIKROTIK

M. Taufik Nurhuda, S.Kom, 2021-02-09 PEMBAHASAN SOAL UJI KOMPETENSI KEAHLIAN PAKET 4 TEKNIK KOMPUTER DAN JARINGAN TAHUN 2019

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web it contains all fifteen mountains in wales over 3000 feet high including the country s highest snowdon yr wyddfa which is 1 085 metres 3 560 ft tall these peaks are all part of the snowdon glyderau and carneddau ranges in the north of the region

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