



1. How to assign IP address with command line

On Mikrotik Router OS you can assign IP address by command line and interface. This is how to assign IP address with command line, please follow it.

```

Confirming configuration
[admin@MikroTik] > ip add add address=192.168.1.109/24 interface=ether1
[admin@MikroTik] > ip add add address=192.168.5.1/24 interface=ether2
[admin@MikroTik] > ip add print
Flags: X - disabled, I - invalid, D - dynamic
# ADDRESS NETWORK INTERFACE
0 :::: defconf 192.168.88.0 ether1
1 192.168.1.109/24 192.168.1.0 ether1
2 192.168.5.1/24 192.168.5.0 ether2
[admin@MikroTik] > _
  
```

Annotations in the image:

- default IP (points to the first row of the table)
- IP WAN (points to the second row of the table)
- IP LAN (points to the third row of the table)

2. Configure DHCP and DNS Server

The first of all, you should configure DNS. Please follow this pictures below.



Mikrotik Router Documentation

Emilie Sanchez



Mikrotik Router Documentation:

Learn RouterOS - Second Edition Dennis Burgess, 2011 **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.

Configuration for Wireless Network Based on Hotspot and CAPsMAN Maya Sari, Azriel Christian Nurcahyo, 2024-08-02. In the present scenario, a growing need is stressed on having wireless networks both indoors and outdoors of diverse large environments like public areas, corporate offices and government sectors, schools and colleges. Traditional network deployments, on the other hand, generally rely on either bridging or rather on the full CSS deployment method while often making use of NAT on every access point. This causes interference with access points operating beyond the DHCP server lease limits with frequent loop issues arising within the wireless infrastructures. Thus, network administrators face the challenge of adding many simultaneous access points that do not have the ability to be integrated, thus giving rise to numerous challenges in meeting demand with reliable networking solutions that provide quick distribution of vouchers or enable user registrations per ID, especially during peak usage periods involving large numbers of users who are connected concurrently. *Data Science Techniques for Beginner Network Administrators* Yulius Yus, Azriel Christian Nurcahyo, Heni

Ermewaningsih,2024-08-12 There is an old saying It is easier to wake someone who is sound asleep than to wake who is pretending to sleep As network administrators competing with AI systems in the future is not an impossibility Analyzing events with simple examples like comparing bandwidth throughput jitter and optimizing server resource usage can be exhausting when applied to dozens or hundreds of devices For instance how do we classify when the bandwidth is low in one place but normal elsewhere based on several sample events Or how do we classify which servers need maintenance and which do not based on existing data parameters referring to unsupervised and supervised learning Classification models can indeed simplify and optimize our work saving time compared to performing network maintenance one by one using only Google Colab In this context we have tried using a small of unsupervised and supervised learning to process data from simple network case studies These data are analyzed for classification regression and prediction using Python scripts implemented in Google Colab This book serves as a starting point to be developed into a continuous series extending to supervised learning deep learning and reinforcement learning which are still in the testing and writing phase We hope this new approach benefits network administrators wherever you are

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

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 performa cukup baik dan berdasar percobaan yang penulis lakukan Mikrotik yang dijalankan diatas 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 diatas 25 Mbps Suatu hal yang menarik Mikrotik RouterOS memasukan beberapa tool seperti Netwatch Sceduller dan Script yang dapat membuat Mikrotik menjadi pintar dan dapat berreaksi terhadap kondisi yang telah diperkirakan oleh Network Administrator Misal memindahkan gateway mengirim e mail ke network administrator saat ada gangguan access ataupun ada keanehan traffik jaringan dan masih banyak lagi

From Hacking to Report Writing Robert Svensson,2016-11-04 Learn

everything you need to know to become a professional security and penetration tester. It simplifies hands on security and penetration testing by breaking down each step of the process so that finding vulnerabilities and misconfigurations becomes easy. The book explains how to methodically locate exploits and professionally report security weaknesses using techniques such as SQL injection, denial of service attacks and password hacking. Although *From Hacking to Report Writing* will give you the technical know how needed to carry out advanced security tests, it also offers insight into crafting professional looking reports describing your work and how your customers can benefit from it. The book will give you the tools you need to clearly communicate the benefits of high quality security and penetration testing to IT management executives and other stakeholders. Embedded in the book are a number of on the job stories that will give you a good understanding of how you can apply what you have learned to real world situations. We live in a time where computer security is more important than ever. Staying one step ahead of hackers has never been a bigger challenge. *From Hacking to Report Writing* clarifies how you can sleep better at night knowing that your network has been thoroughly tested. What you will learn. Clearly understand why security and penetration testing is important. Find vulnerabilities in any system using the same techniques as hackers do. Write professional looking reports. Know which security and penetration testing method to apply for any given situation. Successfully hold together a security and penetration test project. Who This Book Is For. Aspiring security and penetration testers, security consultants, security and penetration testers, IT managers and security researchers.

IAIC Transactions on Sustainable Digital Innovation (ITSDI) The 4th Edition Vol. 2 No. 2 April 2021 IAIC Transactions on Sustainable Digital Innovation (ITSDI), Dr. Ir. Untung Rahardja, M.T.I., MM, 2021-05-31. ITSDI IAIC Transactions on Sustainable Digital Innovation is a scientific journal organized by Pandawan Aptikom Publisher and supported by IAIC Indonesian Association on Informatics and Computing. ITSDI is published twice a year every April and October.

Social and Economic Effects of Community Wireless Networks and Infrastructures Abdelaal, Abdelnasser, 2013-02-28. It is surprising to think that in today's rapidly evolving world of technology over half of the globe still does not have access to high speed internet. Creating community wireless networks has in the past been a way to provide remote communities with internet and network access. *Social and Economic Effects of Community Wireless Networks and Infrastructures* highlights the successes of community wireless networks but also boldly addresses the potential risk factors and broader socioeconomic concerns. This publication's exploration of previous successes and failures, various designs and potential challenges with CWNs makes it a valuable resource for researchers, practitioners, vendors and activists.

Kumpulan Materi Ajar Kreatif Nanda Hidayati, 2020-01-13. Puji syukur penulis ucapkan kepada Tuhan Yang Maha Esa atas rahmat-Nya yang telah tercurah sehingga penulis bisa menyelesaikan buku *Kumpulan Materi Ajar Kreatif*. Adapun tujuan dari disusunnya buku ini adalah supaya para guru dapat mengetahui bagaimana cara membuat bahan ajar melalui contoh materi ajar di buku ini. Tersusunya buku ini tentu bukan dari usaha penulis seorang. Dukungan moral dan material dari berbagai pihak sangatlah membantu tersusunnya buku.

ini Untuk itu penulis ucapkan terima kasih kepada Bapak Entis Sutisna S Pd M M Kepala Dinas Pendidikan Kabupaten Bogor Nina Krisna Ramdhani S Pd M M Ketua PIPP Aditya Kusumawardana S P M P dan pihak pihak lainnya yang membantu secara moral dan material bagi tersusunnya buku ini Buku yang tersusun sekian lama ini tentu masih jauh dari kata sempurna Untuk itu kritik dan saran yang membangun sangat diperlukan agar buku ini bisa lebih baik nantinya

Concepts, Applications, Experimentation and Analysis of Wireless Sensor Networks Hossam Mahmoud Ahmad Fahmy, 2023-02-13 The third edition of this hands on textbook pursues the focus on the principles of wireless sensor networks WSNs their applications their protocols and standards and their analysis and test tools a meticulous care has been accorded to the definitions and terminology To make WSNs felt and seen the adopted technologies as well as their manufacturers are presented in detail In introductory computer networking books chapters sequencing follows the bottom up or top down architecture of the seven layers protocol This book is some more steps after both horizontally and vertically the view and understanding are getting clearer chapters ordering is based on topics significance to the elaboration of wireless sensor networks WSNs concepts and issues This book is intended for a wide audience it is meant to be help and motivate for both the senior undergraduates postgraduates researchers and practitioners concepts and WSNs related applications are laid out research and practical issues are backed by appropriate literature and new trends are put under focus For senior undergraduate students it familiarizes with conceptual foundations applications and practical projects implementations For graduate students and researchers energy efficient routing protocols transport layer protocols and cross layering protocols approach are presented Testbeds and simulators provide a must follow emphasis on the analysis methods and tools for WSNs For practitioners besides applications and deployment the manufacturers and components of WSNs at several platforms and testbeds are fully explored

Internet Wireless Dan Hotspot , e-Infrastructure and e-Services for Developing Countries Karl Jonas, Idris A. Rai, Maurice Tchente, 2013-10-17 This book constitutes the thoroughly refereed post conference proceedings of the 4th International ICST Conference on e Infrastructure and e Services for Developing Countries AFRICOMM 2012 held in Yaounde Cameroon in November 2012 The 24 revised full papers presented were carefully reviewed and selected from numerous submissions The papers cover a wide range of topics in the field of information and communication infrastructures and are grouped in topical sections on e Infrastructure e Services e Society e Health and e Security

Wireless Sensor Networks Hossam Mahmoud Ahmad Fahmy, 2016-03-02 This book focuses on the principles of wireless sensor networks WSNs their applications and their analysis tools with meticulous attention paid to definitions and terminology This book presents the adopted technologies and their manufacturers in detail making WSNs tangible for the reader In introductory computer networking books chapter sequencing follows the bottom up or top down architecture of the 7 layer protocol This book addresses subsequent steps in this process both horizontally and vertically thus fostering a clearer and deeper understanding through chapters that elaborate on WSN concepts and issues With such depth this book is

intended for a wide audience it is meant to be a helper and motivator for senior undergraduates postgraduates researchers and practitioners It lays out important concepts and WSN relate applications uses appropriate literature to back research and practical issues and focuses on new trends Senior undergraduate students can use it to familiarize themselves with conceptual foundations and practical project implementations For graduate students and researchers test beds and simulators provide vital insights into analysis methods and tools for WSNs Lastly in addition to applications and deployment practitioners will be able to learn more about WSN manufacturers and components within several platforms and test beds

Linux Journal ,2003-07 **Cyber Resilience** Sergei Petrenko,2022-09-01 Modern cyber systems acquire more emergent system properties as far as their complexity increases cyber resilience controllability self organization proactive cyber security and adaptability Each of the listed properties is the subject of the cybernetics research and each subsequent feature makes sense only if there is a previous one Cyber resilience is the most important feature of any cyber system especially during the transition to the sixth technological stage and related Industry 4 0 technologies Artificial Intelligence AI Cloud and foggy computing 5G IoT IIoT Big Data and ETL Q computing Blockchain VR AR etc We should even consider the cyber resilience as a primary one because the mentioned systems cannot exist without it Indeed without the sustainable formation made of the interconnected components of the critical information infrastructure it does not make sense to discuss the existence of 4 0 Industry cyber systems In case when the cyber security of these systems is mainly focused on the assessment of the incidents probability and prevention of possible security threats the cyber resilience is mainly aimed at preserving the targeted behavior and cyber systems performance under the conditions of known about 45 % as well as unknown the remaining 55 % cyber attacks This monograph shows that modern Industry 4 0 Cyber systems do not have the required cyber resilience for targeted performance under heterogeneous mass intruder cyber attacks The main reasons include a high cyber system structural and functional complexity a potential danger of existing vulnerabilities and sleep hardware and software tabs as well as an inadequate efficiency of modern models methods and tools to ensure cyber security reliability response and recovery

Private Sector Innovations and Technological Growth in the MENA Region
Ebrahimi, Maryam,2018-11-09 Technological development is achievable only when a country has the ability to systematically design and introduce its own new technologies In spite of the variety of studies regarding technology management there is still a lack of studies concerning the principle concepts of technology management in the Middle Eastern North African MENA region s firms The generally low level of ICT diffusion in most of the region s countries widens the gap between MENA countries and the modern world Private Sector Innovations and Technological Growth in the MENA Region provides innovative insights into investments made for the digital transformation of major cities in the region that have the potential to become a significant driver for economic development and job creation Highlighting topics such as strategic planning risk analysis and customer loyalty this publication is designed for policymakers economists academicians researchers business

professionals and students interested in the use of ICT integration for the advancement of the MENA region **The Mikrotik RouterOS WorkBook** David Gonzalez Herrera,2019-08-09 Do you want to learn Mikrotik RouterOS from Scratch and by easy to follow examples The Mikrotik RouterOS is here for you to achieve that just by reading the description and short description of the topic and then practice with laboratories Do you have a Mikrotik lying around and want to know what all the noise about this excellent and affordable networking equipment brand is all about Want to get comfortable with the Operating System and learn it from the inside out to then take any of the Mikrotik training classes and get certified Learn from the very basic such as accessing the device for the first time and build up knowledge and expertise create a MikroTik based network for home or office learn and deploy DHCP Server and Client services implement a firewall to secure your network setup a Wireless Access Point or client device learn and implement static and dynamic routing setup you own VPN client and server The Mikrotik RouterOS Workbook will fill the gaps that you might have it will become your companion when setting up or diagnosing Mikrotik networks No need to have a physical RouterBOARD at hand you can even learn using virtual environments except wireless section **MikroTik Security Guide** Tyler Hart,2017-10-07 MikroTik Security Guide Second Edition is the definitive guide to securing MikroTik RouterOS and RouterBOARD devices It s built around industry best practices legal and compliance standards and lessons learned by the author during years of auditing and consulting engagements Links to industry standard best practices and STIG documentation are included to help enhance your MikroTik network security program Topics include physical and wireless security locking down IP services managing users configuring firewalls segmentation with VLANs and more Chapters include simple to follow descriptions of how and why steps are performed and easy copy paste commands you can run directly on your RouterOS devices Many of the topics included in the guide also correspond with MikroTik s MTCNA certification outline so it s great for on the job use and professional development **Learn RouterOS** Dennis Burgess,2009-08-10 RouterOS is one of the fastest growing router systems in the world With a massive amount of features and capabilities you will learn all about these impressive features and capabilities

Reviewing **Mikrotik Router Documentation**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Mikrotik Router Documentation**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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