

NETWORK ADMINISTRATION AND MIKROTIC ROUTER CONFIGURATION

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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DAFFODIL INTERNATIONAL UNIVERSITY
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APPROVAL

In this titled “**NETWORK ADMINISTRATION AND MIKROTIC ROUTER CONFIGURATION**” submitted by Md. Amdadul Haque ID No: 163-15-8544 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents.

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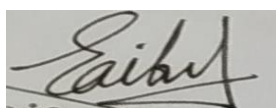
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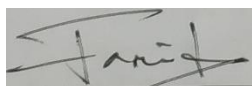
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DECLARATION

This is declared by, the work presented in this internship report is done by me under the supervision of **Mr. Gazi Zahirul Islam, Assistant Professor, Department of Computer Science and Engineering**, Daffodil International University, in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering. I am declaring this report is my original work. I ensure that neither this report nor any part has been submitted elsewhere for the award of any degree.

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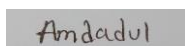
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ABSTRACT

A computer network is digital telecommunications network which allow nodes to share resources. In computer network computing device exchange data which is other using connection between nodes the best known computer network in the internet. There are some or more computers are interconnected and able to exchange data or information then I am call network. I want to increase the number of PC's and exchange data or information from one to another that time we need some special PC's are called Server. There is various type of work in the network that is why also different types of server have. For Example- Web Server, DNS Server, Mail Server, Proxy Server, FTP Server, Firewall. Each of them works differently and without them it is impossible to maintain a network. If network is connected to the Internet and I want to secure your information they must setup server using Operating System. That's why I choose this subject of my report is ("Computer Administration and Mikrotic router Configuration)". The report discussed about the purpose of the specific server using on Network, hardware requirement for the server, choosing software and installation process of the software, step by step server configuration process and simple troubleshooting of the server.

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CHAPTER 1

Introduction

1.1 Introduction

The current time is technology dependent. Now without the internet nothing can be imagined. The word network means to spread like a net. Computer network refers to the connection between multiple Computers. That is, it is called the system to create multiple computer connect to share resource such as hardware, software, computer network .We use switch, router to communication to each. In this period student's the job environment and challenges. I want to take challenge to learn and improve.

1.2 Motivation

I am student in CSE at DIU. When I was first admitted in daffodil international University than I was slowly getting motivation by various issue. A man them is the network. Internship help me a lot in telling those .I now know some they unique about the network. I can now explain of any level it any one has a problem with this. I have the ability to some the problem quickly by utilizing my skills. So I proud of daffodil International University and Daffodil online Ltd.

1.3 Internship Objectives

Internship can be taught in real life by hand pen. A lot of knowledge can be equines in real life. And then with that knowledge many developments in life can be made possible in different tasks. So I loved the internship. The internship made me very confidents. I learn about MikroTic. Linus OS server maintenance. I learn how to contact client. I also learned how to best Server clients. Internships help me get a job in real life. So I can say that internships have helped me a lot. I think many do this internships. There is a lot of time to work, as well menagerie [3].

1.4 Introduction to the Company

I always say daffodil Online is a successful ISP company in Bangladesh. They work in Bangladesh for a long time. They work very sincerely for everyone. So I think Daffodil Online is a recognized institution of International quality. They are extremely friendly [1].

1.5 Report Layout

Chapter (1) in this chapter explains Introduction, Motivation, Internship Objectives & Company introduction.

Chapter (2) in this chapter about the Explains Company Swat analysis & organizational structure.

Chapter (3) in this chapter explains about my daily task and activities, Events and Activities and Challenges.

Chapter (4) in this chapter explains about discussion and conclusion and my future carrier.

Chapter (5) my report describes the conclusion and the professional scope of Mikrotik.

CHAPTER 2

Organization

2.1 Introduction

Daffodil Online (DOL) is to be one of the trailblazers and oldest ISP/ASP in Bangladesh and providing one stop integrated ICT service and solution since July 2002. They provide maximum service to their customers at the lowest price possible. They are committed to building a digital Bangladesh. They provide digital education and institutional education to solve unemployment problems. They provide training along with various services. They are very friendly. This company all employee strong professional engineering and management team certified from different leading computing association.

Daffodil Online Service Provided.

- Office Networking.
- Domain Registration.
- Network Design & Solution
- Mail service
- Hosting.

2.2 Product and Market Situation

Bangladesh is a meriting populace, and its objective is to be digitized by 2021. Subsequently, every office and each association in our nation ought to be digitized. Accordingly, IT Master and IT specialists need a tremendous number in the accompanying couple of years. So Daffodil Online Limited gauges a basic piece of displaying action by giving different organization like:

2.3 Target Group

Give numerous administrations and their objective gathering is these are given underneath:

- a) Global Company and Corporate house.
- b) Security Solution
- c) Space Registration and web Hosting
- d) Site Development
- e) Expert Courses and Training
- f) Open Source application arrangement
- g) Web access supplier (ISP)

2.4 Analysis of SWOT

There some site of SWOT Analysis [7].

➤ **Strengths:**

- The people work from in his own place.
- Our first location downtown will draw visitors.
- We have able to give really good customer care, as the
- Current small amount of work means we have plenty of time

➤ **Weaknesses:**

- Our company has little market presence or repulsion.
- All startup funds will come from loans and investors.

➤ **Opportunities:**

- Our business sector is expanding with many future opportunities for success.
- Local government wants to encourage local business.

➤ **Threats:**

- A small change in the focus of a large competitor might wipe out any market position we achieve.
- Initial poor service or product quality could discourage customers from retuning.

2.5 The Organizational Structure

Chairman
Managing Director
General Manager
CEO/CTO
Manager
Deputy Manager
Sr. Assistant Manager
Assistant Manager
Senior Officer
Officer
Office Staff

Figure 2.1: Showing Organizational structure of DOL.

CHAPTER 3

Tasks, Projects and Activities

3.1 Daily Task and Activities

- ❖ Month - 1: In the Daffodil Online, the following is what I learned in the first month of an Internship:
 - Networking Information.
 - About Learn network materials.
 - The importance of networking.
 - The important about IP.
 - Learning about networking addressing.
 - Learning Network sub netting.
 - Some networking. Cabling.

- ❖ Month – 2: The following is what I learned in the internship for the second month:
 - The Introducing of MikroTik router.
 - MikroTik router configuration.
 - VMware and Win box software installing.
 - Learning Static routing.
 - Learning dynamic routing.
 - Learning Bridge creating.
 - Learning Bandwidth sharing.
 - Learning Bandwidth shaping.
 - Limitation Network access.

❖ Month – 3: The following is what I learned in the internship for the third month:

- Learning Introducing to Linux.
- Learning Linux Cent OS installation.
- Learning Linux basic command.
- File and Directory accessing.
- Remote login services.
- Study and realization and configuration Mail server.

❖ Month – 4: The following is what I learned in the last month:

- Learning the Firewall
- The Backup and monitoring.
- Learning Cisco switching.
- Learning System management.

3.2 The Activities and Events

- The network organization control.
- Situate user net permit.
- The network and mass problem solution.
- The switch and router problem solution.
- The user using distant entry from technological confirmation.
- The Information Technology resolution.

3.3 The Activities of Project Task

Class	1 st Octet Decimal Range	1 st Octet High Order Bits	Network/Host ID (N=Network, H=Host)	Default Subnet Mask	Number of Networks	Hosts per Network (Usable Addresses)
A	1 – 126*	0	N.H.H.H	255.0.0.0	126 ($2^7 - 2$)	16,777,214 ($2^{24} - 2$)
B	128 – 191	10	N.N.H.H	255.255.0.0	16,382 ($2^{14} - 2$)	65,534 ($2^{16} - 2$)
C	192 – 223	110	N.N.N.H	255.255.255.0	2,097,150 ($2^{21} - 2$)	254 ($2^8 - 2$)
D	224 – 239	1110	Reserved for Multicasting			
E	240 – 254	1111	Experimental; used for research			

Note: Addresses in class 127.0.0.0 to 127.255.255.255 cannot be used and is reserved for loopback and diagnostic functions.

3.4 Addresses in private IP [8].

Class	Private Networks	Subnet Mask	Address Range
A	10.0.0.0	255.0.0.0	10.0.0.0 - 10.255.255.255
B	172.16.0.0 - 172.31.0.0	255.240.0.0	172.16.0.0 - 172.31.255.255
C	192.168.0.0	255.255.0.0	192.168.0.0 - 192.168.255.255

	Binary form	Dot-decimal notation
IP address	11000000.10101000.00000101.10000010	192.168.5.130
Subnet mask	11111111.11111111.11111111.00000000	255.255.255.0
Network prefix	11000000.10101000.00000101.00000000	192.168.5.0

Network	Network (binary)	Broadcast address
192.168.5.0/26	11000000.10101000.00000101.00000000	192.168.5.63
192.168.5.64/26	11000000.10101000.00000101.01000000	192.168.5.127
192.168.5.128/26	11000000.10101000.00000101.10000000	192.168.5.191
192.168.5.192/26	11000000.10101000.00000101.11000000	192.168.5.255

3.5 Table: Class A Subnets

Network Bits	Subnet Mask	Bits Borrowed	Subnets	Hosts/Subnet
8	255.0.0.0	0	1	16777214
9	255.128.0.0	1	2	8388606
10	255.192.0.0	2	4	4194302
11	255.224.0.0	3	8	2097150
12	255.240.0.0	4	16	1048574
13	255.248.0.0	5	32	524286
14	255.252.0.0	6	64	262142
15	255.254.0.0	7	128	131070
16	255.255.0.0	8	256	65534
17	255.255.128.0	9	512	32766
18	255.255.192.0	10	1024	16382
19	255.255.224.0	11	2048	8190
20	255.255.240.0	12	4096	4094
21	255.255.248.0	13	8192	2046
22	255.255.252.0	14	16384	1022
23	255.255.254.0	15	32768	510
24	255.255.255.0	16	65536	254
25	255.255.255.128	17	131072	126
26	255.255.255.192	18	262144	62
27	255.255.255.224	19	524288	30
28	255.255.255.240	20	1048576	14
29	255.255.255.248	21	2097152	6
30	255.255.255.252	22	4194304	2

3.6 Table: Class B Subnets

Network Bits	Subnet Mask	Bits Borrowed	Subnets	Hosts/Subnet
16	255.255.0.0	0	0	65534
17	255.255.128.0	1	2	32766
18	255.255.192.0	2	4	16382
19	255.255.224.0	3	8	8190
20	255.255.240.0	4	16	4094
21	255.255.248.0	5	32	2046
22	255.255.252.0	6	64	1022
23	255.255.254.0	7	128	510
24	255.255.255.0	8	256	254
25	255.255.255.128	9	512	126
26	255.255.255.192	10	1024	62
27	255.255.255.224	11	2048	30
28	255.255.255.240	12	4096	14
29	255.255.255.248	13	8192	6
30	255.255.255.252	14	16384	2

3.7 Table: Class C Subnets

Network Bits	Subnet Mask	Bits Borrowed	Subnets	Hosts/Subnet
24	255.255.255.0	0	1	254
25	255.255.255.128	1	2	126
26	255.255.255.192	2	4	62
27	255.255.255.224	3	8	30
28	255.255.255.240	4	16	14
29	255.255.255.248	5	32	6
30	255.255.255.252	6	64	2

▪ 3.8 The Cabling Network

Some Types of Network Cable:

- Unshielded Twisted Pair (UTP) Cable. Ex: cat-4, cat-5, cat-5e, cat-6
- Shielded Twisted Pair (STP Cable) Ex: cat-6a, cat-7
- Coaxial Cable.
- Fiber Optic Cable.
- Wireless LANs.

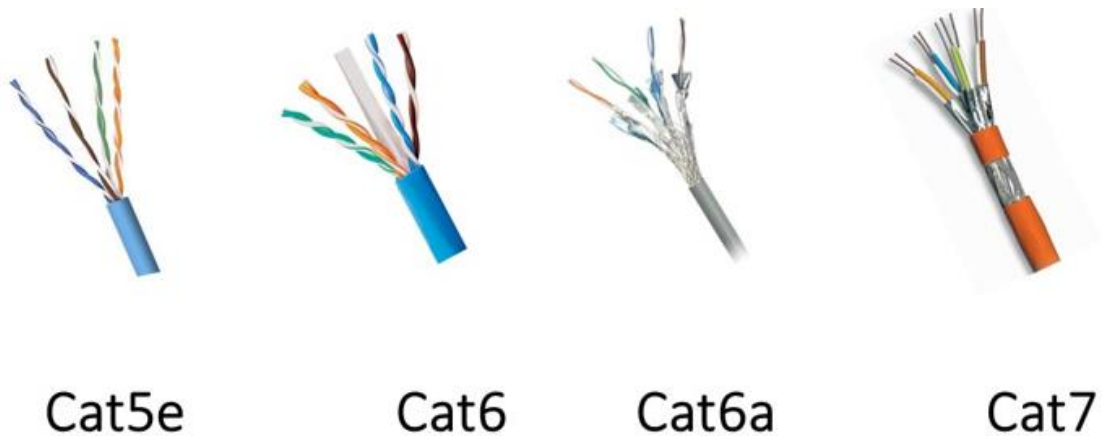


Figure 3.1: Twisted pair cable.

➤ 3.9 Color Code for Twisted Pair Cable:

1	White/Orange		Transmit+
2	Orange		Transmit-
3	White/Green		Receive+
4	Blue		Unused
5	White/Blue		Unused
6	Green		Receive-
7	White/Brown		Unused
8	Brown		Unused

Figure 3.2: Straight-Through Ethernet Cable.

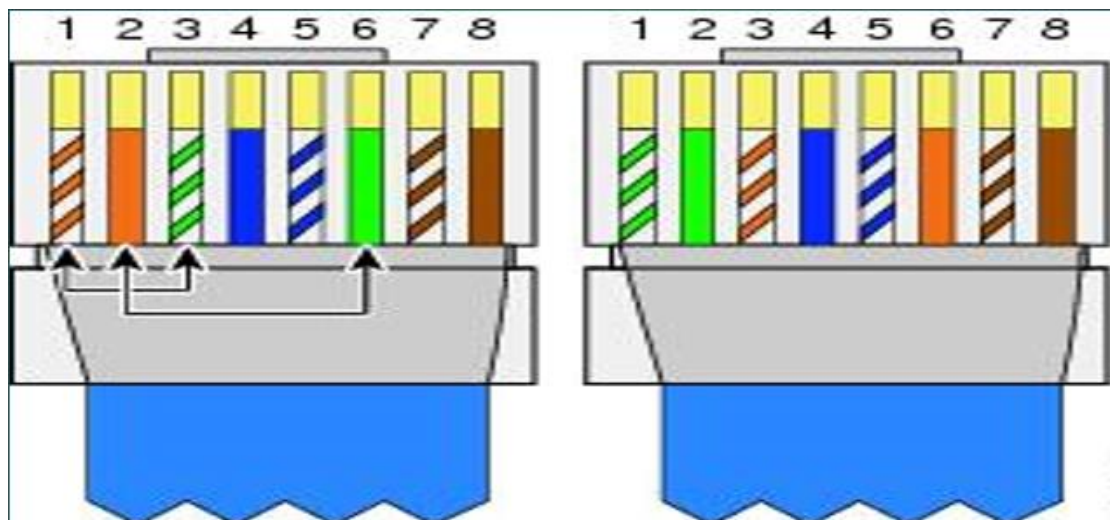


Figure 3.3: Crossover Ethernet Cable.

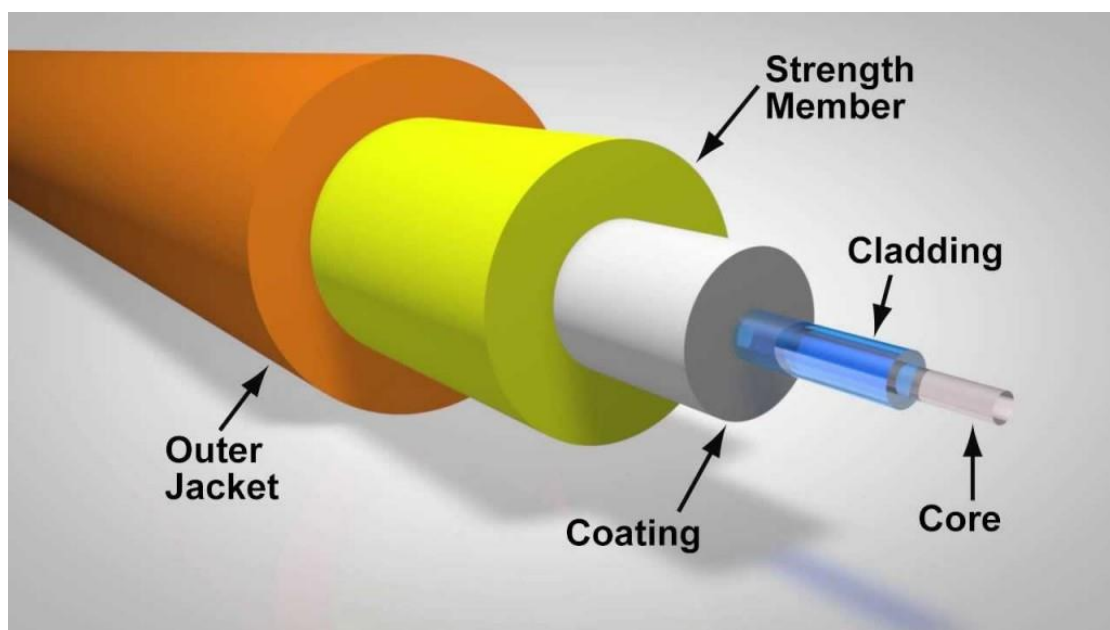


Figure 3.4: Optical Fiber.



Figure 3.5: Optical Fiber Connector



Figure 3.6: Optical Fiber Medium.

3.10 MikroTik Router

MikroTik Router is the operating system of MikroTik Router based hardware can also be installed on a PC and will turn it into a router with all the necessary features routing, firewall, bandwidth management, wireless access point, backhaul link, gateway, VPN server and more. Wired and wireless network router, network switch, access points are them. The company was established in 1996 with the focus of selling network equipment in emerging markets. In the year 2018 the company was more than 140 employees [5].

3.11 Router Operating System

Router Operating System is a network operating method. It arises on Linux intended for installation on MikroTik router board. It can install on computer. All the essential features are installed on computer when Router OS is installed, like as firewall, virtual Private Network, bandwidth shaping etc. [6].

3.12 Features

It can accept much application jurisdiction by ISP. For instance.

- I can use it as a simple router.
- Point-to-Point Protocol over Ethernet Client Server.
- Virtual Private Network.
- Border Gateway Protocol.
- Router Information Protocol.
- Open Shortest Path First.
- Graphical User Interface.
- Firewall.
- I can use it as like as a switch or bridge.
- Less cost.

3.13 Propose Network Diagram (MikroTik Configuration)

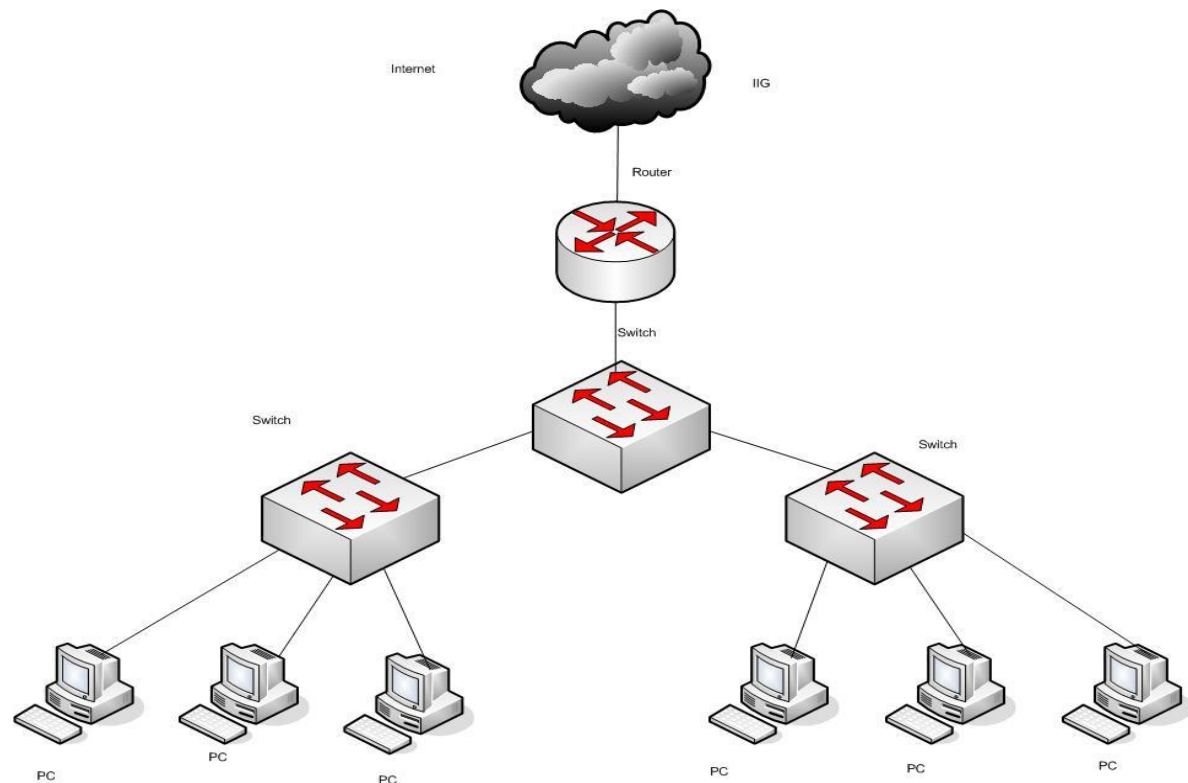


Figure 3.9: Shows Network Diagram

3.14 Static Routing Mode Configuration

Static routing configuration is a process where Wide Area Network and Local Area Network configuration is create manually.

- Provide an electricity connection to the MikroTik router.
- Use MikroTik router's Ethernet port 1 to WAN and Ethernet port 2 to LAN.
- Click Winbox and browse it.
- Then show Internet Protocol address and Media Access Control address. Click Media Access Control address.
- Give username "admin" and no necessity password and press NEXT to connect.

✓ **Pas 1**

Method: Write system reset-configuration for reboot router.

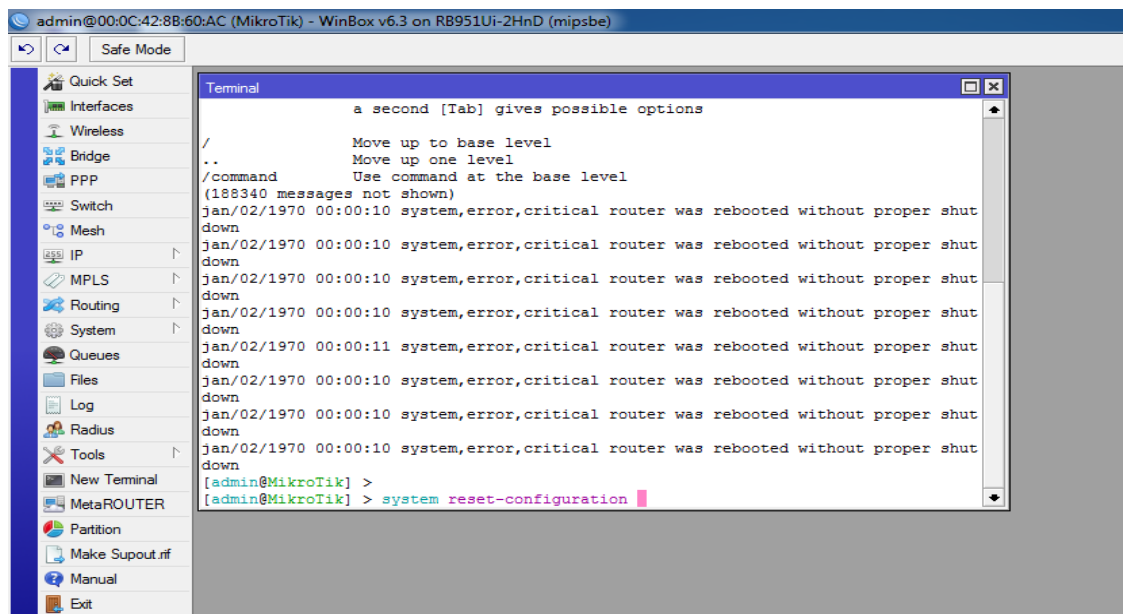


Figure 3.10: Reset MikroTik Router

✓ **Pas 2**

Method: Set up Internet Protocol address.

Click to IP → Address → "+" → WAN

Click to IP → Address → "+" → LAN

(Special Note: Ethernet 1 use for WAN and Ethernet 2 use for LAN.

Here WAN = 192.168.50.20 & LAN = 172.16.1.1)

After all press to Apply & OK.

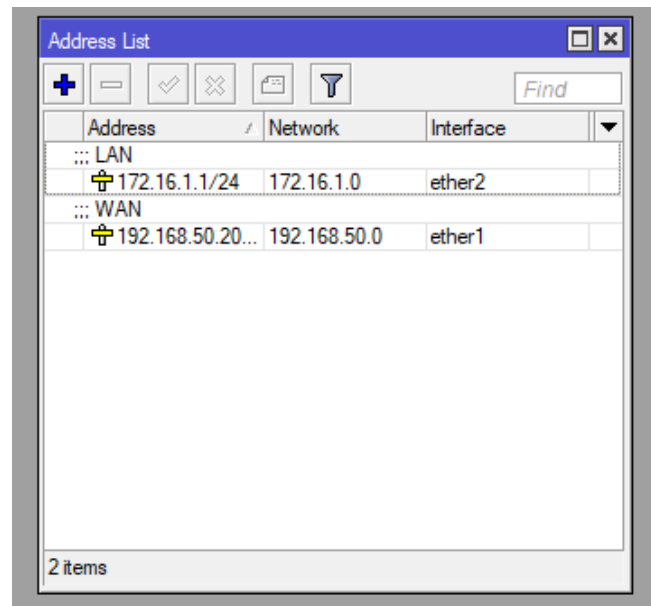


Figure 3.11: Assign Internet Protocol address.

✓ Pas 3

Method: Set up gateway and Defining Routes.

Click to IP → Routes → "+" → Gateway

(Special Note: Here gateway = 192.168.50.1)

After all press to Apply & OK.

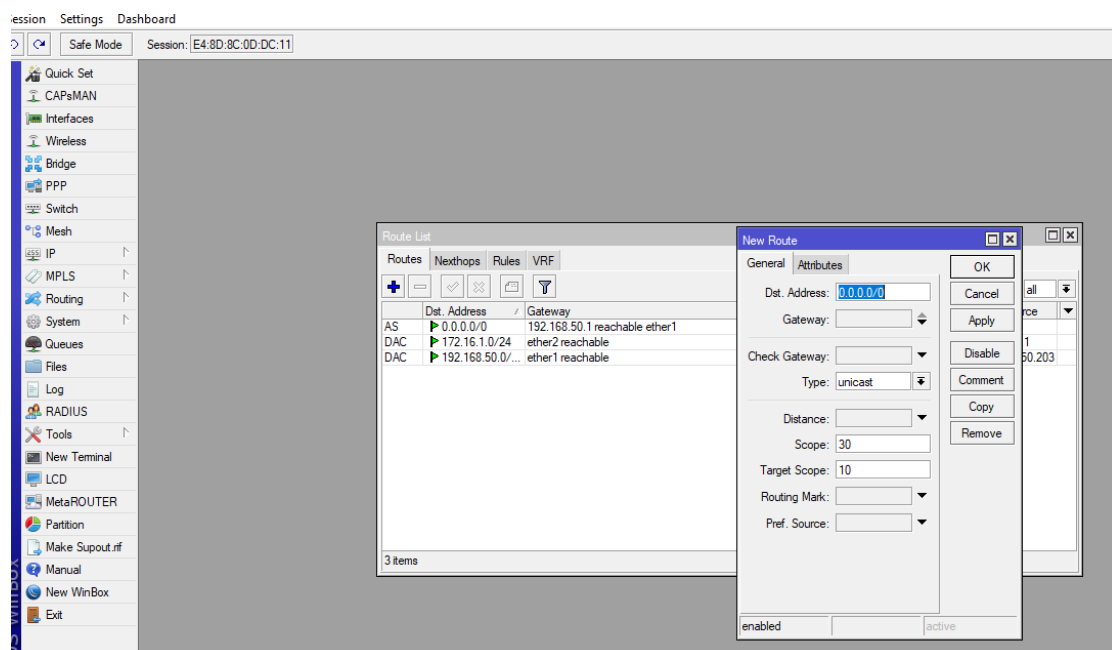


Figure 3.12: Add gateway.

✓ **Pas 4**

Method: Set up gateway and Defining Routes.

Click to IP→ DNS → Server

(Special Note: Domain Name Server = 203.190.10.252 & extra Domain Name Server = 8.8.8.8)

After all press to Apply & OK.

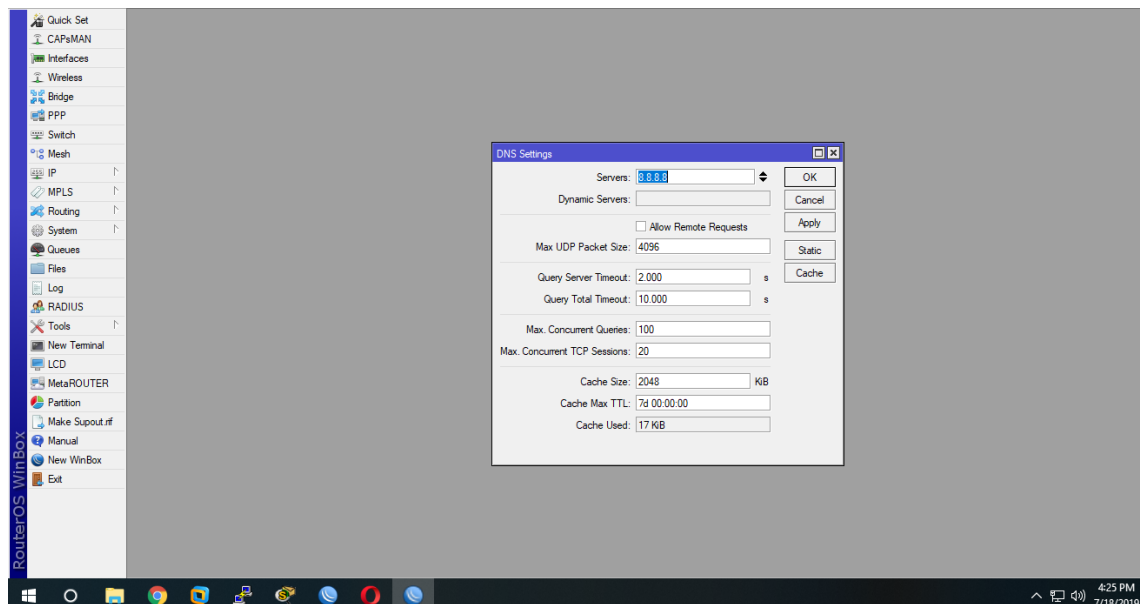


Figure 3.13: Domain Name Server setting.

✓ **Pas 5**

Method: Set up gateway and Defining Routes.

Click to IP→ Firewall → “+”→NAT →Action →Masquerade

After all press to Apply & OK.

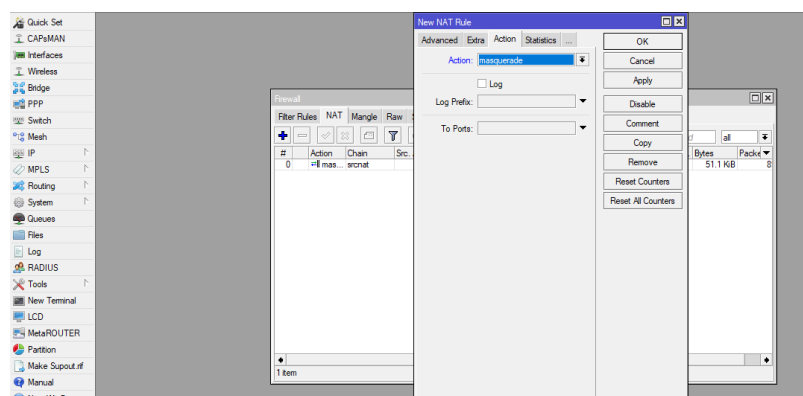


Figure 3.14: Network Address Translation adding

3.15 Dynamic Host Configuration Protocol

✓ Pas 1

Method:

Click to IP → DHCP → Action

After all click NEXT.

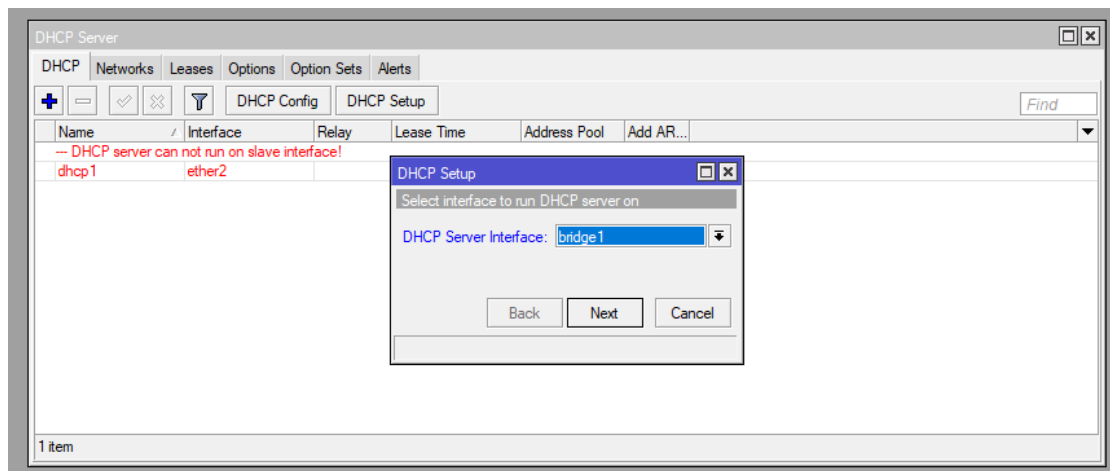


Figure 3.15: Dynamic Host Configuration Protocol server interface.

✓ Pas 2

Method:

Click to IP →DHCP

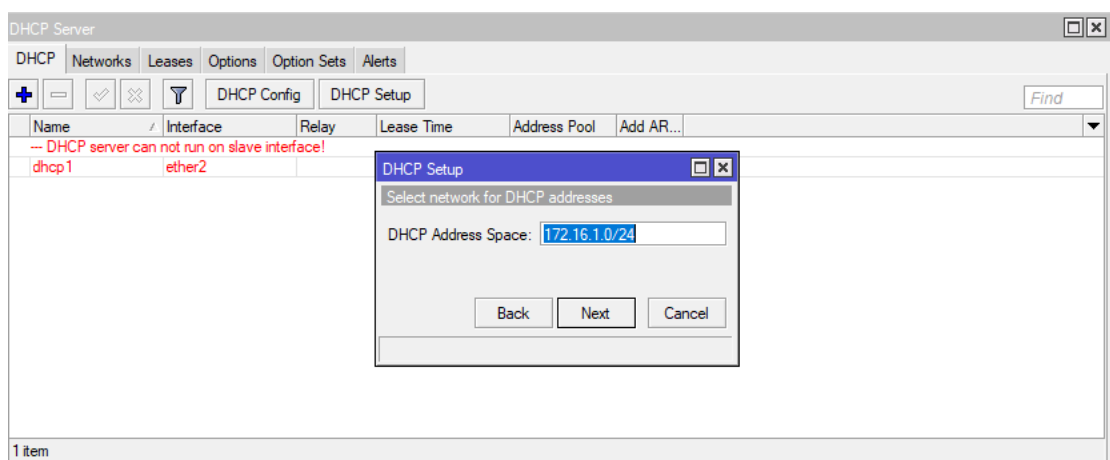


Figure 3.16: Internet Protocol address adding

✓ **Pas 3**

Method:

Click to IP → DHCP

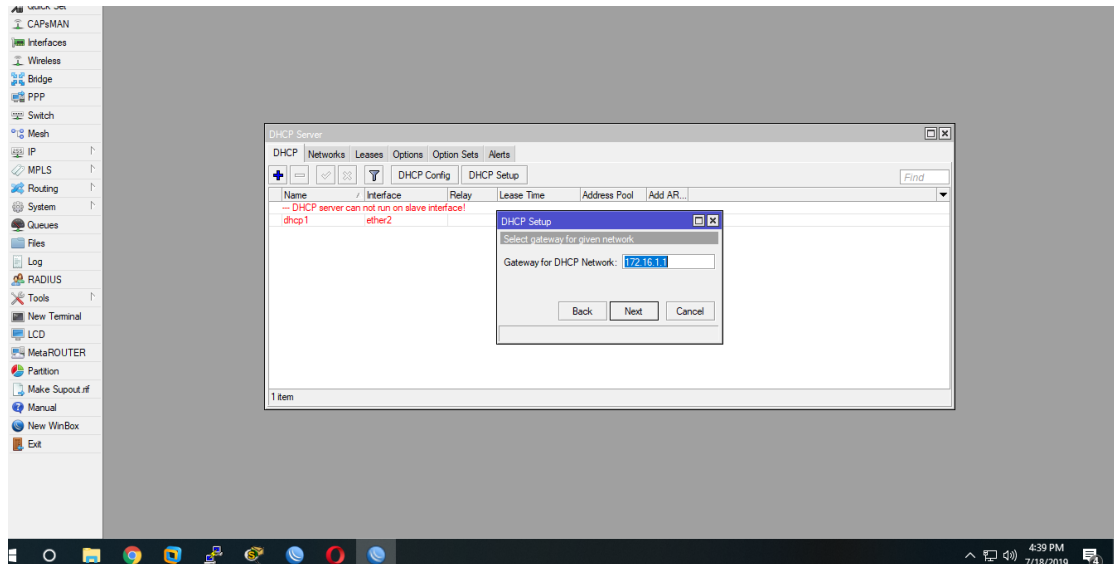


Figure 3.17: Gateway setting for Dynamic Host Configuration Protocol.

✓ **Pas 4**

Method:

Click to IP → DHCP

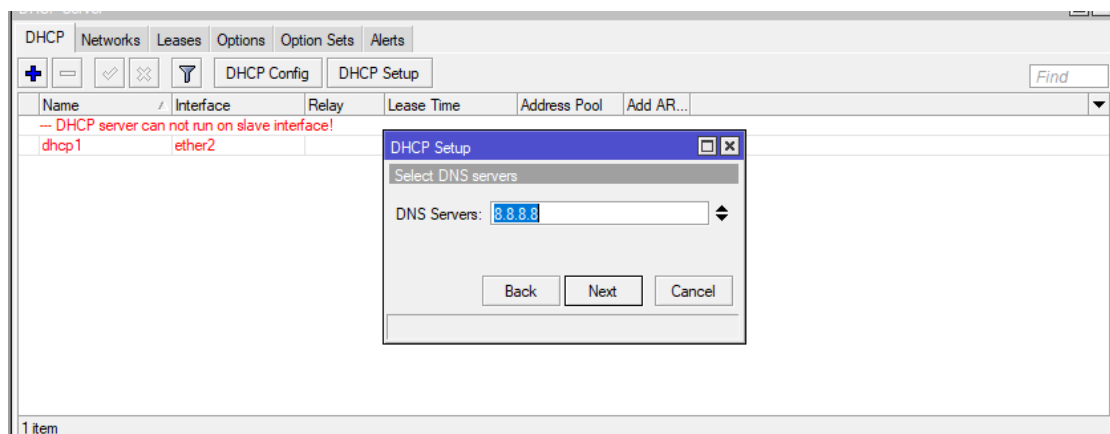


Figure 3.18: Domain Name System setting.

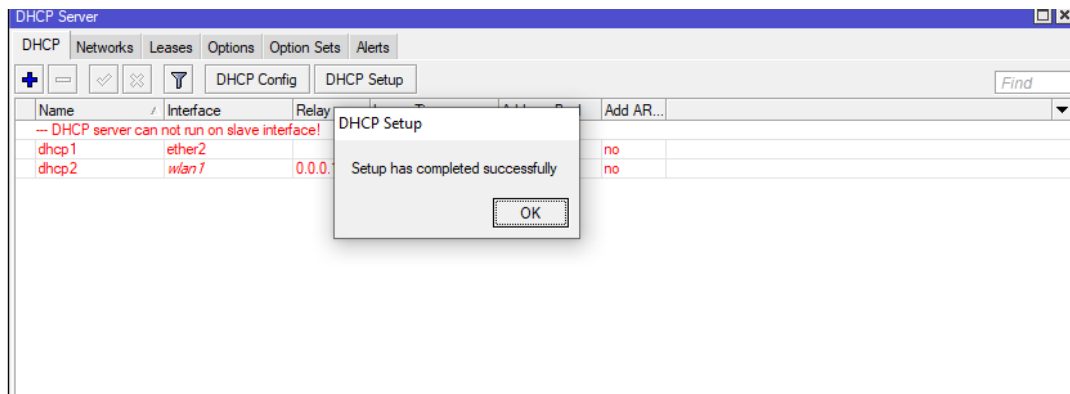


Figure 3.19: Dynamic Host Configuration Protocol setup completed successfully.

3.16 Bridge Mode Configuration

✓ Pas 1

Method:

Click to Bridge → “+” → write a name for bridge

After all click Apply & OK

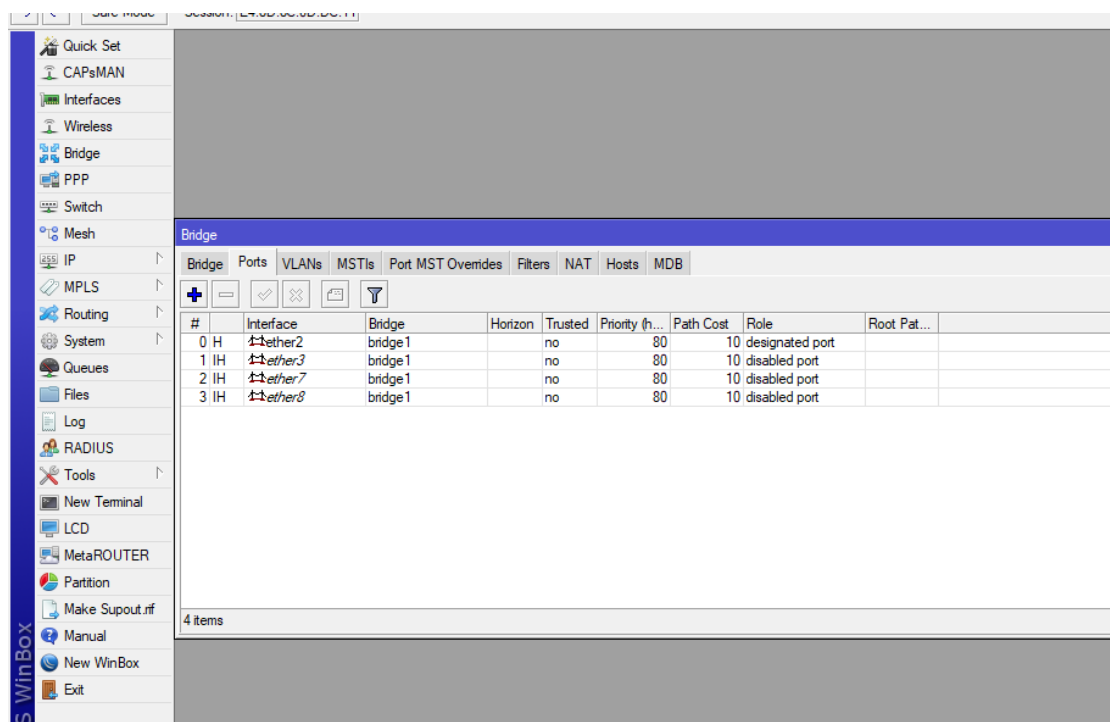


Figure 3.20: Bridge port adding

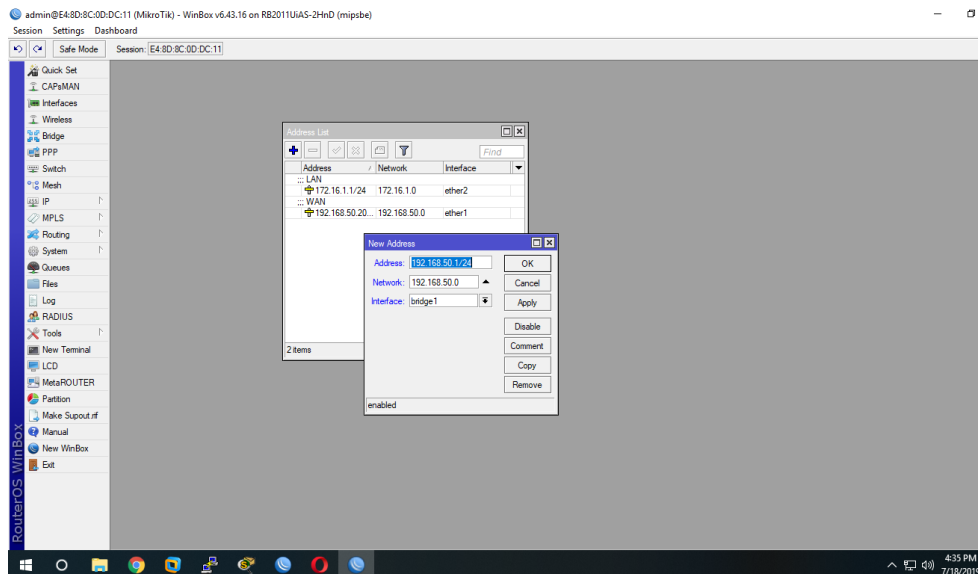


Figure 3.21: Internet Protocol adding to bridge configuration

3.17 Per Connection Queue (PCQ) Bandwidth Management

✓ Pas 1

Method:

Click to New terminal Type import address

After all click on Enter.

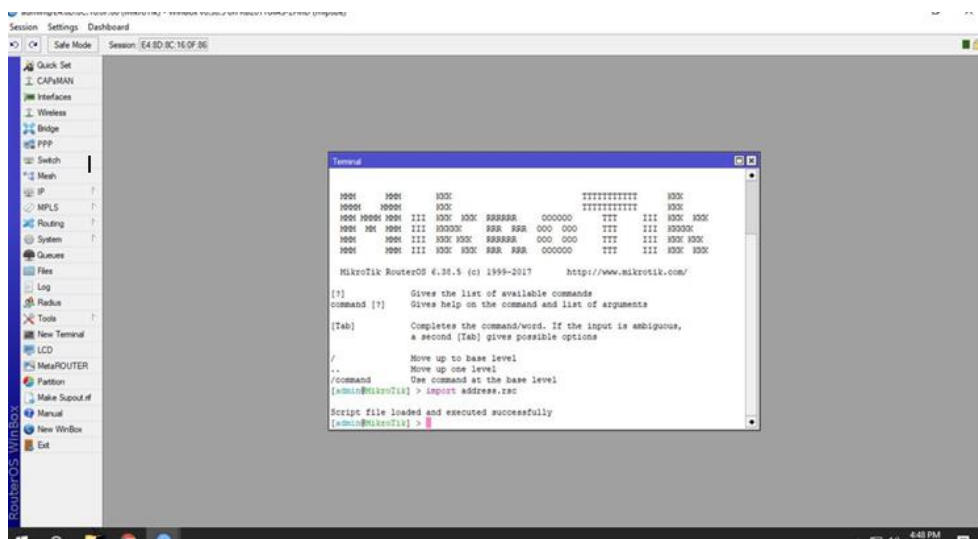


Figure 3.22: Import address

✓ Pas 2

Method:

Click to IP → Firewall → Mangle

After all press Apply & OK

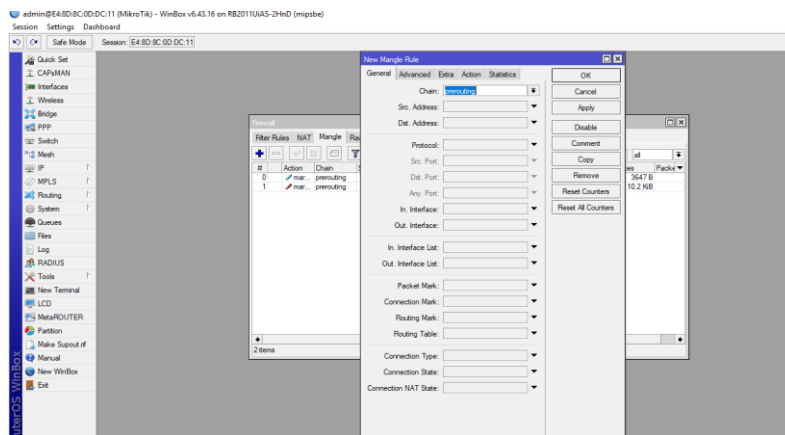


Figure 3.23: Mangle Rule

➤ Pas 3

Method:

Click to IP → Firewall Mangle → “+” → Advanced General

Src. Address List: Facebook.com

After all click Apply & OK

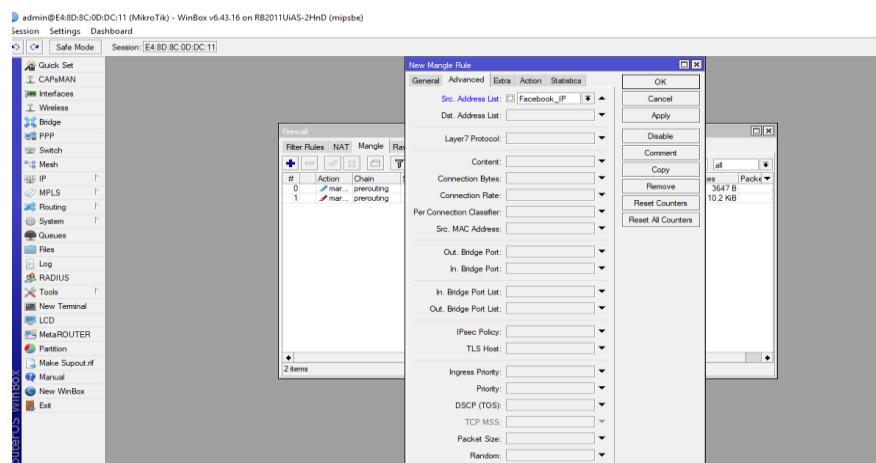


Figure 3.24: Mangle advanced setting.

Pas 4

Method:

Click on Queues → “+” → General Name

After all click Apply & OK

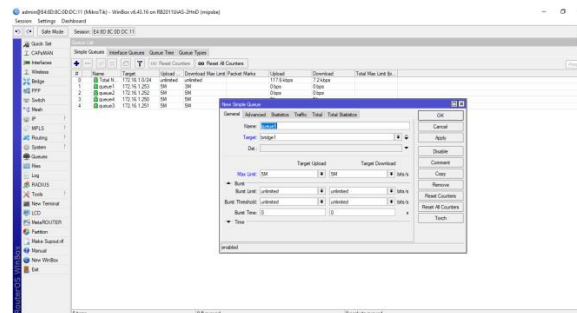


Figure 3.25: Creating Queue.

✓ Pas 5

Method:

Click on Queue → Queue Type General

Right mark to .address

After all click Apply & Ok

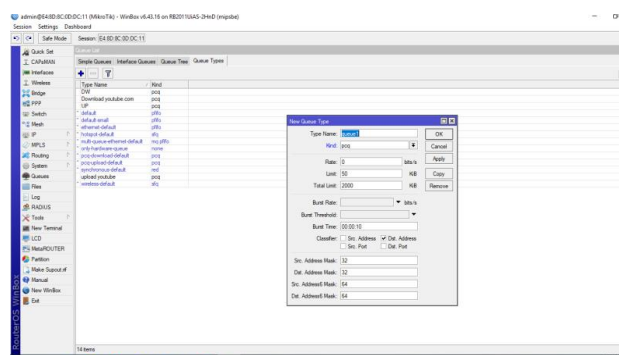


Figure 3.26: Adding Queue types.

3.18 Challenges

I am willing to take on a lot of challenges now because I learned that doing internships in Daffodil Online. I learned and learned how to work with challenges. In order to take the challenge is any matter, first you need to know the subject well. The biggest thing is that you must have 100 percent confidence in yourself. Everyone should have a mindset to work with. In that case it is important to know the language in which everyone speaks English. Everything has to be understood with the environment.

CHAPTER 4

Competencies and Smart Plan

4.1 Competencies Earned

Explicit issues toward the finish of the framework, the Linux issue, and the driving understanding. Because of the conditions indicating conditions, we can just present some new mistakes. I accept the Linux Model Framework Model will give an answer that will be expanded later or later. Premium carbide end plant and rotational cutting gadget maker excellent application.

Screenplay: College, life science, look into based, superb Linux gathering, server and pole storing answer structure, national security through essential advancement techniques.

4.2 Smart Plan

A teaching result is a teaching method, depending on what a student reaches, it has the power to get another or to do it. For both the introduction and deportation of the Datacenter System and Server Machine, for example, Lead part of the Linux programming function to spend, for example LDAP HA, coordination of program studying output, temporary and field position evaluation. The Student Association's Office stores many unique international education results: Collecting and organizing an internship project detail. Take part in the Linux web site summary. In addition, education results regularly, the role of internship in the Hierarchical Strategy and Methods of On-Site Supervisors.

4.3 Reflections

Your brief area can be reestablished, when it is hard to think about joining the publicizing office as a steady. Transitory assignments can at present be significant in the natural condition and after that they can fall into the test and you should decide how the technique will be found. Brief area is without their very own boundary! I'm going to cover a few worries with many helped warriors. In conclusion, we can say that there is no achievement if there is no test. Notwithstanding these lines, during the time spent.

CHAPTER 5

Conclusion and Future Career

5.1 Discussion and Conclusion

By doing internship I have been able to have wonderful experiences in my life. By doing internship I went into detail about the network and how to expand its work in the future. I know what my purpose is, how to get a job how to better communication with management and how to apply my skills to myself. Investigate this internship has been a marvelous & and wage feeling. Per this internship, I have prepare many new things. I think my knowledge of this future career will be of great use. When I induced my work it has been very dissent. Every day I had to go to the office. Every day had to done daily task. All the staff in the office were friendly.

5.2 Scope for Further Career

Many of us who study in computer Science have many opportunities for doing Internship. Daffodil Online helps us a lot of in this regard. When I learn all the good things from Daffodil Online I will be given a lot of offers for the job. I always thanks my supervisor sir for this internship. Thanks a lot to Daffodil Online everyone. Who have helped me to gown knowledge? How can my skills be utilized through Communication. To make my career a success, I am grateful to those who have helped me improve the teaching experience in my hands. I respect my University very much.

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On 04 April 2019, 11: 00am

Appendix A:

Internship Reflection

The primary task of my internship is to sign my life Money anywhere. Wherever there is a problem in real life, I give it my maximum merit to solve it. What I learned in the internship must be applied in a professional way. My skills, my knowledge, and ability, how to develop and how to use it through the network. I learn how to have a good relationship with the supervisor. How can I contact my coworker, know how to maintain good communication with them. Understanding everything in professional life, sharing the work with them, I learned more. How power is shared. How it is structured how to decision are made the culture of a professional organization.

Appendix B:
Company Detail



Head Office

Name	Daffodil Online Limited
Address	102,Shukrabad (3rd floor), Mirpur Road, Dhanmondi Dhaka - 1207, Bangladesh
Telephone	02-9143258-60
Fax	880-2-8116103
E-mail	info@daffodilnet.com
Website	www.daffodilnet.com
Type of Organization	Nationwide Internet Service Provider (ISP)
Employees	12

NETWORK ADMINISTRATION AND MIKROTIC ROUTER CONFIGURATION

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