# INTERNSHIP ON LINUX SERVER SYSTEM AND MIKROTIK AT DAFFODIL ONLINE LIMITED

BY

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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

> Supervised By Name: Ms. Farah Sharmin Designation: Senior Lecturer Department of CSE Daffodil International University



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# APPROVAL

This Project titled "INTERNSHIP ON LINUX SERVER SYSTEM AND MIKROTIK AT DAFFODIL ONLINE LIMITED", submitted by Rajib Malo ID:172-15-9740 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. The presentation has been held on October 08,2020.

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adent

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# **DECLARATION**

I hereby declare that, this project has been done by us under the supervision of **Ms. Farah Sharmin, Senior lecturer, Department of CSE,** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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Finally, I must acknowledge with due respect the constant support and patients of my parents.

### ABSTRACT

Linux Server Administration may be a well-known method for handling the system correspondence as far as its execution, dependability and security. This Internship shows the whole setup procedure of an ISP server Administration alongside the various administrations offered in Linux working framework. there's different quite add the system that's the rationale additionally unique kinds of server and the way to design different administration. For Example-DSN Server, Web Server, Mail Server, Proxy Server, FTP Server, Firewall. within the event that two and more PCs are interconnected and prepared to trade information or data then we call organize. I have to create a quantity of PC and trade information quantities and if quite one PC is needed then they ought to be launched within the server name. MikroTik may be a minimal effort and straightforward access Router which will be used for managing small and enormous systems.Particularly this systems administration gadget suits for small system from each viewpoint like customer administration and security. MikroTik RouterOS is that the working arrangement of MikroTik Router Board which can likewise introduce during a standard PC also; the PC will transforms into a MikroTik Router.

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# CHAPTER 1 Introduction

## **1.1 Introduction**

The Internship is understood on makings aware expertise from the several organizations which will aid to form a bond between the ideal and efficient wisdom. It added expensive expertise to the students future life way. As a student of computer science and engineering at Daffodil International University. Even I have studied of network engineering courses by lattermost 4 year. However it often plentiful understood the computer networking. As a result to urgent a correct consciousness about inspiration networking. I am attracted try to that internship on any Internet Service Provider or IT concerned industry. Those Internship Report is **"INTERNSHIP ON LINUX SERVER AND MIKROTIK AT DAFFODIL ONLINE LIMITED"At** Daffodil Online Limited. This report makeup the entire program that it done over around the Web Server, Linux Configuration, Server Setup, Server Security and Monitoring System.

### **1.2 Motivation**

I acknowledged that Daffodil Online Limited has a superb authority for client satiety and service. Daffodil Online Ltd is documented and first among the highest Internet Service Provider (ISP) in Bangladesh. I recognized that the composition of my expertise, learn to networking and Linux server will built me asset to Daffodil Online Limited. I have determine to more recent objection and this can give me a perpendicular knowledge at Daffodil Online Limited. I think that internship will give me perfect scope to advanced my career. Whereas an intern, I applied to be set Daffodil Online Ltd workflow and learn the highest amount as I perform. Daffodil Online Ltd internship expertise will provided me a thought like my after livelihood and perform on sharp position my ulterior learning and my career.

# **1.3 Internship Objective**

- **4** Successful effective learning around computer networking.
- **4** Successful hand experience on internet service provider.
- **4** Manage technological Ability.
- Successful training area research.
- Finish personal efficiency.
- **Good Communicate with client.**
- **4** Showed effort and energy.
- **Work better performance with client.**
- ↓ Increased communication ability.
- ↓ Increased administrative ability.
- **4** Increased analyst and research knowledge.
- **Wisdom key of professional.**
- **Understood on occupational principle, market or confidence.**
- **Wisdom on occupational association performances.**
- **Wisdom on occupational daily newspapers.**

#### **1.4 Introduction To The Company**

Daffodil Online Ltd. challenge me simultaneously of the leading pandemic Internet Service Provider (ISP) in Bangladesh. They are the first expertise and old industry within the ICT field where their basic occupation ethics is future concern with our clients. As they seem at the propagation over the end decade since their inception, they are particularly glad with what we have achieved, and even more alarmed about their outlook for an equally hopeful future. It may please you to know that we started our activities within the year 2002. During the past years, they extended our activity and reparation registers according to the client request and considering demands of various time. They worked with much national projects and international organization and achieved the reputation. They are using the most recent technologies and upgrading the services wherever it's required. Their associated network solution department is able to provide network and telecommunication solutions with a highly skilled technical experienced group.

Name:	Daffodil Online Limited	
Address: -	102, Shukrabad (3rd floor), Mirpur	
	Road, Dhanmondi, Dhaka - 1207,	
	Bangladesh	
Telephone:-	9143258, 9143259	
E-mail:-	info@daffodilnet.com	
Website:-	www.daffodilnet.com	
Type of organization:-	Internet Service Provider	

### **1.5 Report Layout**

Chapter:- (1) In this chapter, I described an introduction, motivation, internship objective and introduction to the company.

Chapter:- (2) In this chapter, I have described the organization of internship, product market Situation, SWOT analysis and organization structure.

Chapter :- (3) In this chapter I have described daily task and activities, events and activities, projects tasks, activities, and challenges.

Chapter :-(4) In this chapter, I have described the competencies earned, smart plan and reflection.

Chapter :-(5) In this chapter, I have described the discussion and conclusion, Scope for a future career.

# CHAPTER 2 Organization

### **2.1 Introduction**

I would wish to motivate me into a couple of new issues and which can give me a better benefits from DOL. i might give the perfect chance to expand my calling confidence in this transitory profession. Since I'm an immediate, I can increase crafted by Daffodil Online Limited and that i can learn however very much like could reasonably be expected. Daffodil Online Ltd (DOL) section level experience will give me a considered my future life and will direct my future and can be a fierce walk for my calling.

### 2.2 Product Market Situation

Daffodil Online Limited provided nationally ISP IT training and professional training some of are given below:

- 1. Combined internet solution.
- 2. Safety Solution.
- 3. Internet website updated.
- 4. Cisco Basic Switching configure.
- 5. Daffodil all data center.
- 6. Speed wi-fi zone.
- 7. Data connectivity, data center, co-location.
- 9. Cisco Basic Router Configure.
- 8. Professional course and trainings:
  - **4** Internet service provider configure and application used Linux.
  - Linux Server.
  - **Wikrotik Router all configure (MTCNA).**
  - Internet website improvement.
  - ♣ Linux Basic command.
- 9. Red hat certified engineer(RHCE).

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# **2.3 SWOT Analysis**



Figure: 2.2.1 SWOT Analysis

# Strength

- > Daffodil Online Limited has the good customer support 24/7.
- ➤ Daffodil Online Limited has the best customer care for server their customer.
- ➤ Daffodil Online Limited has the one of the most experienced Consultant.
- ➤ Marketing Policy is very appreciate able.

### Weakness

- ➤ There are few problems in the Marketing Policy.
- $\succ$  Need to boost up the customer motivation.

# **Opportunity**

➤ Daffodil online limited business sector is enlarge, with much future scope for conquest.

- ➤ Native government wanted to foster native business.
- ► Encourage Youth Talent to the local job market.
- $\succ$  It opponents may be late to take new technology.

### Threats

➤ Some Development issues in technologies may be exposing bazar wide the market authority to grow up.

➤ If the system is changed then need to careful about that sometimes small changes can be affect the market situation.

### 2.4 Organization Structure

It is a group of people to accomplish some specific task. All members in an organization have same objective. So the organizational structure is given below:-



Figure : 2.2.2 Organization Structure

### **CHAPTER 3**

### **Tasks Projects and Activities**

### 3.1 Daily Task and Activities

Internship Period is that the partial fulfillment for completing my Bachelor of Science in computing and Engineering. It had been the three month Linux Administration course in Daffodil Online Limited. It reduce one among the foremost IT professional training and courses on the day once I attend.

### Month 1:-

The commence of my intern period I have learned from Daffodil Online Limited is given below:-

Introducing and Understanding about Network Components.

Introducing to Basics of Linux.

- Installation and Partitioning the Hard Drive of Linux OS.
- Learning & understanding Linux Run Level.
- Simple centos command.
- •Create linux user and password management
- Knowledge on logged in user.
- Created the Multi User System.

### Month 2:-

Ihe second month of my intern period I have learned from Daffodil Online limited is following tasks:-

- File and directory create and access.
- How to copy and move file and directory.
- Compressed or decompressed file and directories.
- How to mount unmount drive.
- File and directory permission field.

- Install, update and remove bundle behave yum.
- Notion of IP addressing and configuring network address on centos.

### Month 3: -

The third month of my intern period I study from daffodil online limited is given below:-

- how To configure the FTP Server.
- To Configure and Understanding WEB Server.
- To Configure and Understanding MAIL Server.
- To Configure and Understanding DNS Server.
- To Configure and Understanding NFS Server.
- Configuring PROXY Server.
- Remote Login Service.
- Firewall.

## Month 4:-

The Last Month of My Internship Period I wanted to create a Simple Project which is uses for monitoring to an Organizational Network .We can see how much people are in live in our Network.

• Monitoring Server.

### **3.2 Events and Activities**

In the Education Sector Skilled and Educated Manpower is vital issues for highest quality education. Daffodil Online Limited prefer the simplest quality Teacher for professional training and Courses. Daffodil Online Limited maintain a scientific approach for recruitment. First, the candidates need to sit for a written test, then an interview is taken. At last, the candidate has got to give 2/3-demonstration class from which we take the

feedback from the scholars. and eventually, the candidate is chosen or rejected. Daffodil Online Ltd (DOL) may be a too much time confident preliminary of Daffodil study network which operate while 2002 to exhibit occupational people funds on various field of study or education. DOL have perfectly qualified lower opinion of polytechnic, technical and occupational ability improvement education organization in Bangladesh. Currently DOL is highly documented organization for science, engineering, arts knowledge and also for occupational and leading development training program. Daffodil Online Limited is additionally very accomplished name in combined training organization which has earned international acceptance during highly low period. On the opposite hand Daffodil Online Limited provided highest quality professional training. Daffodil Online Limited Provided the Training for Diploma Engineers, Corporate line professional and Human

#### **3.3 Project Task and Activities**

### **3.3.1 Centos Install**

The easy method used to centos 6 installation process. Then creating a virtual machine red hat enterprise Linux 6 [64] bit operating system.

Configure the virtual machine with at least 512 MB memory for 32 bit and 1GB for 64 bit.

Now I am describing the Installation Process step by step.

- STEP 1: At first we have to insert Linux centos CD/DVD in CD/DVD rom. Then Go to BIOS and Select Boot from CD/DVD.
- > STEP 2: Select Install and upgrade existing System Option.
- STEP 3: Select Skip media test because it take long time to cheek media and Click Next.
- > STEP 5: Select language and appropriate keyboard for Personal Computer
- STEP 7: Select basic storage device if hard disk is attached locally.
- STEP 8: Select no keep my data and next.
- STEP 9: Then we have to enter a host Name and Select Configure Network.
- STEP 10: Select Dhaka from the Map or List.

- ➤ STEP 11: Give a root password
- STEP 12: For this installation of Linux we creating at least three partition of root ,boot and swap.
- Root (/): at first root partition selected where '/boot' ok, then secondly 100 MB mount '/boot' ok.
   Swap:- The swap partition used to support virtual memory. Partition swap will 2x equal physical ram and up to 2 GB physical memory. It is important for cannot less than 32 MB.
- STEP 13: After creating root, boot, and swap partition. Select the Applications you want to install and click next.
- > STEP 14: Installation is successfully completed reboot pc.
- > STEP 15: Give User Name and Password to Log in.

Installation Complete!!

### 3.3.2 Linux Kernel, Shell & Shell Script

The kernel is that the essential center of a computer OS, the core that gives basic services for all other parts of the OS. A synonym is nucleus. A kernel are often contrasted with a shell, the outermost a part of an OS that interacts with user commands. A shell script may be a document that contains a sequence of commands for a UNIX-based OS. It's called a shell script because it combines into a "script" during a file a sequence of commands that might otherwise need to be presented to the system from a keyboard one at a time.

### 3.3.3 Directory and File

For Linux, directory is a collection of files.where files are collection of data that it contains. Directory can be two types root directory and sub directory.

Root directory is a parent directory and sub directory comes under root directory. A directory can contains many files while reverse is not true.

For example:- /etc/Rajib

# 3.3.4 Linux Run Level System Used By Centos Operating System

init 0 == Shutting Down Mode init 1 ==Single User Mode init 2 ==Multi User Mode init 3 == Full User Mode init 4 == Unused init 5 == X-Window init 6 == Reboot or Restart see present run-level == who -r

# **3.3.5 Simple Commands Of Centos**

cat [filename]	The command also use to display contents of multiple files.
cd /directorypath	Changing the directory file.
chmod [options] mode filename	Transfer the access permit of file.
chown [options] filename	Transfer the owner of system files, directories.

clear Which is used to bring the command line on top of compute terminal. cp [options] source destination Copying file and directory. file [options] filename Command displays for file type. find [pathname] [expression] Finding the file match a take steps model. grep [options] pattern Searches for lines which contain a search pattern. [filesname] kill [options] pid Allows you to terminate a process from the pid-1692. less [options] [filename] Allows you to view files without opening an editor. It lists the files and folders. ls [options] man [command] This command used to see the manual of any command. mkdir [options] directory Create new directories in the file system. mv [options] source destination It also allows you to rename files. passwd [name [password]] Change the password for a user. Displays for present working directory. pwd rm [options] directory Used to remove or erase file on directory. Used to dismiss vacant directory from the file system. rmdir [options] directory

ssh [options] user@machine	Used to securely connect to a remote server or system.
su [options] [user [arguments]]	This command is used to changing different user.
tail [options] [filename]	Which prints on end few number of way.
top	Used to display running processes.
touch filename	Used to create a file without any content.
who [options]	Who are currently logged into the computer.

# 3.3.6 User Create and Password Manage

1. For adding an user, useradd Rajib

2. For delete an user, userdel Rajib

3. For check an user, cat /etc/passwd

4. For check the details of an user, cat /etc/passwd | grep Rajib

5. Changing for an user, su <username>

6. For new user set on password,

passwd Rajib

7. Changed root password, passwd

 Password change or remove, passwd -d Rajib

9. Delete an user on home directory, userdel –r Rajib

10. Current position of password, passwd –s Rajib

11. To know the login user, whoami

# 3.3.7 Copy Or Move File

For Copy, cp <file/directory name> Destination Location Ex: cp file2 /root/Personal/Rajib For Move, mv <file/directory name> Destination Location Ex: mv file2 /home/Emergency

# 3.3.8 File Editing Tools

To edit a file,

→vim <FileName>

Example:- vim reolve.conf

To Insert text into File,

→press "i",

To delete the character under the Cursor, →press "X"

To delete the full line where cursor is on, →press "dd"

To save the file,

→wq!

To save the changes but not exit,  $\rightarrow w!$ 

```
To exit without saving,

\rightarrow q!
```

To move the cursor un in precious line, →press "J"

To move the cursor down in next line, →press "K"

# 3.3.9 Install/Update/Remove Package in Centos

 Install a package using yum install :yum install (package name)
 Example:- yum install vsftpd
 Uninstall a package using yum yum remove (package name) Example:- yum remove vsfdtpd
3. Update a package using yum
yum update (package name)
Example:- yum update firefox
4. Search a package using yum
yum search (package name)
Example:- yum search samba
5. Display Additional Information about a Package
yum info (package name)
Example:- yum info samba
6. View All Available Package
yum list | less

7. View Already Installed Packageyum list installed8. List of all available software groupyum grouplist

# 3.3.09 Network Configuration

Computers are linked in a network to interchange detail or assets every one. One and more device linked on media this rule named computer network. Essentially a network is a group of computers or other devices connected together, either by a cable or wirelessly this called computer network. Now I will discuss about how to configure network in the centos operating system. Basically two types of configure network on centos operating system.

- 1. Manually
- 2. By using command.
- We'll see Network Configuration by using Command.

Step 1:-run the command "ifconfig" to show the Network is configured or not.

	root@localhost:~ _ □	ı x		
<u>F</u> ile	<u>E</u> dit <u>V</u> iew <u>S</u> earch <u>T</u> erminal <u>H</u> elp			
[root [root eth0	<pre>t@localhost ~]# t@localhost ~]# t@localhost ~]# t@localhost ~]# t@localhost ~]# Link encap:Ethernet HWaddr 00:0C:29:B4:21:E8 inet addr:192.168.50.230 Bcast:192.168.50.255 Mask:255.255.255.0 inet6 addr: fe80::20c:29ff:feb4:21e8/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:30 errors:0 dropped:0 overruns:0 frame:0 TX packets:162 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:3517 (3.4 KiB) TX bytes:12600 (12.3 KiB)</pre>			
lo	Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0 inet6 addr: ::1/128 Scope:Host UP LOOPBACK RUNNING MTU:16436 Metric:1 RX packets:66 errors:0 dropped:0 overruns:0 frame:0 TX packets:66 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:5144 (5.0 KiB) TX bytes:5144 (5.0 KiB)			
[root@localhost ~]#				

Step 2:- Now we have to see that the cable is connected or not.

So we have to run "mii-tool eth0" command in terminal.

```
      root@localhost:~
      - - ×

      <u>File Edit View Search Terminal Help</u>

      [root@localhost ~]# mii-tool eth0
      ^

      eth0: negotiated 100baseTx-FD, link ok
      ^

      [root@localhost ~]#
      _
```

Step 3:-Now we have to go the Network-Script Directory by using command

"cd /etc/sysconfig/network-script"

				· ·	
[root@localh	ost ~]# cd /etc	/sysconfig/net	work-scripts/		
[root@localh	ost network-scr	ipts]# ls			
ifcfg-eth0	ifdown-isdn	ifup-aliases	ifup-plusb	init.ipv6-global	
ifcig-lo	ifdown-post	ifup-bnep	ifup-post	net.hotplug	
ifdown	ifdown-ppp	ifup-eth	ifup-ppp	network-functions	
ifdown-bnep	ifdown-routes	ifup-ippp	ifup-routes	network-functions-ipv6	
ifdown-eth	ifdown-sit	ifup-ipv6	ifup-sit		=
ifdown-ippp	ifdown-tunnel	ifup-isdn	ifup-tunnel		
ifdown-ipv6	ifup	ifup-plip	ifup-wireless	Activate	W/
[root@localh	ost network-scr	intsl#		Activate	
Inoorderocari	obe needorik ber	1969]#		Go to Settin	لق

There are some file and directories here but we need to configure "ifcfig-eth0" file.

**Step 4:-**Now we have to do that directory by using this command "vim ifcfg-eth0" and edit some lines like,

ONBOOT=yes BOOTPROTO=static IPADDR=192.168.50.230

#### NETMASK=255.255.255.0

GATEWAY=192.168.50.1

root@localhost:/etc/sysconfig/network-scripts         -	×			
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>S</u> earch <u>T</u> erminal <u>H</u> elp				
DEVICE=eth0	$\frown$			
HWADDR=00:0C:29:B4:21:E8				
TYPE=Ethernet				
UUID=055ad700-b398-4eef-b0db-27714b131fc8				
0NB00T=yes				
NM_CONTROLLED=yes				
B00TPR0T0=static				
IPADDR=192.168.50.230				
NETMASK=255.255.255.0				
GATEWAY=192.168.50.1				
~				
~	=			
~				
~				
~				
Then save the file by using command "wq!"				

**Step 5:-**Configure the DNS by using this command "vim /etc/resolve.conf" and put the DNS (If we have the organization DNS so put it here on the other hand we can use the default DNS by Google)

so here is the edited nameserver.



Then save and exit from here.

Step 6:-Now we need to stop the service NetworkManager by using this command,

```
"service Network Manager stop
```

```
[root@localhost network-scripts]# service NetworkManager stop ______
Stopping NetworkManager daemon: [ OK ]
[root@localhost network-scripts]# ______
```

Step 7:-For Permanently stop NetwokManager we need to using this command

"chkconfig NetworkManager off"

and for check "service NetworkManager status"

🗉 root@localhost:/etc/sysconfig/network-scripts _ 🗆 >	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>S</u> earch <u>T</u> erminal <u>H</u> elp	
[root@localhost network-scripts]# chkconfig NetworkManager off [root@localhost network-scripts]# chkconfig NetworkManager status chkconfig version 1.3.49.3 - Copyright (C) 1997-2000 Red Hat, Inc. This may be freely redistributed under the terms of the GNU Public License.	^
<pre>usage: chkconfig [list] [type <type>] [name] chkconfigadd <name> chkconfigdel <name> chkconfigoverride <name> chkconfig [level <levels>] [type <type>] <name> <on off reset reset< pre=""></on off reset reset<></name></type></levels></name></name></name></type></pre>	
priorities>	
[root@localhost network-scripts]# chkconfig Network status	
chkconfig version 1.3.49.3 - Copyright (C) 1997-2000 Red Hat, Inc. This may be freely redistributed under the terms of the GNU Public License.	
<pre>usage: chkconfig [list] [type <type>] [name] chkconfigadd <name> chkconfigdel <name> chkconfigoverride <name> chkconfig [level <levels>] [type <type>] <name> <on off reset reset< pre=""></on off reset reset<></name></type></levels></name></name></name></type></pre>	
priorities>	
<pre>[root@localhost network-scripts]# service NetworkManager status NetworkManager is stopped proot@localhost network-scripts]#</pre>	=

Step 8:-Then we need to check our Internet is ready for use or not.

Ping google.com then see the result.

د root@localhost:~		
<u>F</u> ile <u>E</u> dit	t <u>V</u> iew <u>S</u> earch <u>T</u> erminal <u>H</u> elp	
[root@lo	calhost ~]# ping google.com gle.com (74 125 130 102) 56(84) bytes of data	<u> </u>
64 bytes ms	from sb-in-f102.1e100.net (74.125.130.102): icmp_se	q=1 ttl=46 time=68.7
64 bytes ms	from sb-in-f102.1e100.net (74.125.130.102): icmp_se	q=2 ttl=46 time=73.7
64 bytes ms	from sb-in-f102.1e100.net (74.125.130.102): icmp_se	q=3 ttl=46 time=68.4
64 bytes ms	from sb-in-f102.1e100.net (74.125.130.102): icmp_se	q=4 ttl=46 time=69.6
64 bytes ms	from sb-in-f102.1e100.net (74.125.130.102): icmp_se	q=5 ttl=46 time=69.0
64 bytes ms	from sb-in-f102.1e100.net (74.125.130.102): icmp_se	q=6 ttl=46 time=68.6
64 bytes ms	from sb-in-f102.1e100.net (74.125.130.102): icmp_se	q=7 ttl=46 time=71.8
64 bytes ms	from sb-in-f102.1e100.net (74.125.130.102): icmp_se	q=8 ttl=46 time=69.1
64 bytes ms	from sb-in-f102.1e100.net (74.125.130.102): icmp_se	q=9 ttl=46 time=70.6
64 bytes 9 ms	from sb-in-f102.1e100.net (74.125.130.102): icmp_se	q=10 ttl=46 time=69.
		Activate W
		Go to Setting

Our Network Configuration is now complete.

### 3.3.10 Mikrotik General Configure

Mikrotik is one of the most usable router of any internet service provider or industry and official company. Mikrotik Router is able to strong networking service of any organization. Mikrotik Router are bandwidth control service and graphical user interface which help us winbox software. Mikrotik Router cost is low so it used easy to everyone. MikroTik Router simple configure are often divided by 5 steps.

- 1. LAN & WAN Configure
- 2. Gateway Configure
- 3. DNS Configure
- 4. Local IP route by masquerade/NAT configure
- 5. DHCP Server configure

### Some other MikroTik configuration

- **4** Queue and Per Connection Queue configure.
- **4** Bridge and configure.
- **4** PPPOE server configure.
- **4** Static configure.
- **4** Filtering configure
- **4** Backup & Restore configure

Given below data and an easy network configure which are connected to private network to Mikrotik Router operating system to public network internet.



Figure 3.10: General Mikrotik Router OS Networking System.

## 3.3.11 MikroTik WAN and LAN configure

Maiden level of Wide Area Network setting to Mikrotik router and then another Local Area Network configure on router port address.

- At first ip then Addresses schedule. Then select {+} switch display. Recent menu shown on displayed. Establish first wan ip address {43.231.78.2/29} that is selected. Then interface wan configure, then ok press.
- Secondly, ip then Addresses schedule. Then select {+} switch display. Recent menu shown on displayed. Establish first lan ip address {192.168.0.1/24} that is selected. Then interface lan selected, then ok finish configuration.

			admin@08:00:27:6F:7F:81 (Mi	kroTik) - WinBox v5.20 or	n x86 (x86)	- 🗆 🗙
0	Safe Mode					🗹 Hide Passwords 📲 🧧
Inter	faces					
Wire	eless					
Bridg	ge					
PPP	2					
Mes	h					
IP	ħ	ARP	90 1			
IPve	6 (*	Accounting				
MPL	LS 🏌	Addresses	Address Lint			
Rout	ting T	DHCP Client	+	Find		
Syst	lem ľ	DHCP Relay	Address / Network	k Interface 💌		
Que	ues	DHCP Server		78.0 WAN		
Files		DNS				
Log		Firewall		New Housewalling a		
Rad	lus	Hotspot		Address <43.231.78.2/29>	X	
Tool	ls P	IPaec		Address: 43.231.78.2/29	OK	
New	v Terminal	Neighbors		Network: 43.231.78.0	Cancel	
ISDI	N Channels	Packing		Interface: WAN	¥ Apoly	
KVN	A	Pool				
Mak	e Supout.nf	Routes			Disable	
Man	rual	SMB			Comment	
Ext		SNMP			Сору	
		Services	1 kem		Remove	
		Socks				
		TFTP		enabled		
		Traffic Row				
		UPnP				
		Web Proxy				

Figure 3.11: Mikrotik Router Wide Area Network Configure.

)				admin@08:00:27:6F:7F:81 (M	ikroTik) - WinBox v5.20 on	x86 (x86)	
8	C* Safe	e Mode	]				Hide Passwords
I	Interfaces						
	Wireless						
	Bridge						
	PPP						
	Mesh		1				
	IP	1	ARP				
	IPv6	t.	Accounting	8		ł.	
	MPLS	T.	Addresses	Address List			
	Routing	1	DHCP Client		Find		
	System	P.	DHCP Relay	Address / Netwo	k Interface 🔻		
	Queues		DHCP Server	+43.231.78.2/29 43.231	1.78.0 WAN		
	Files		DNS	T 132.168.0.1/24 132.16	a.u.u Lan		
	Log		Firewall		Inclusion and a second second		
	Radius		Hotspot		Address <192.168.0.1/24>		
	Tools	E.	IPsec		Address: 192.168.0.1/24	ОК	
	New Termin	al	Neighbors		Network: 192.168.0.0	▲ Cancel	
	ISDN Chan	nels	Packing		Interface: LAN	¥ /ooly	
	KVM		Pool				
	Make Supo	ut.rf	Routes			Disable	
<	Manual		SMB			Comment	
3	Exit		SNMP			Сору	
			Services	2 tems		Remove	
			Socks		-		
ó			TFTP		enabled		
g			Traffic Flow				
3			UPnP				
			Web Proxy				

Figure 3.12: Mikrotik Router LAN Configure.

# 3.3.12 MikroTik Gateway Configure

After completed WAN and LAN IP configuration, then I configure mikrotik gateway configuration. So simple way to assign gateway IP in mikrotik router.

Firstly, select ip window then routes option. Routes menu view currently. Then gateway ip establish now {43.231.178.1} that is view now. Next level ok selected.

			address of stand	and the second second		979. S	
Q4	Safe Mode					✓ Hide Pa	sewords
Inter	faces						
Wrei	less						
Bridg	je -		in the second			(CIN)	
PPP	1		Heute Lid	New Yourse			
Mesh	h		Route <0.0.0.0/0>	184 1495.0			
IP	4	ARP	General Approv	es			0
IPv6	P.	Accounting	De Addam	00000			
MPL	5	Addresses	Ust. Address.	0.0.0.00			Lan
Rout	ting P	DHCP Client	Gabeway	43.231.78.1	I +   (reachable WAN		App
Syste	em P	DHCP Relay	Check Gateway:	£		•	Disa
Que	ues	DHCP Server	Time	Contrast		1.2	Come
Files		DNS	type.	ar ricasi		1.0	
Log		Firewall	Distance:	1			Cot
Radik	us	Hotspot	Scope:	30		1	Rem
Tools	s P	IPsec	Tarnet Scone	10			
New	Terminal	Neighbors	De see Mede				
ISDN	N Channels	Packing	Houng Mark.	<u></u>			
KVM		Pool	Pref. Source:	L		17	
Make	e Supout nf	Routes					
Manu	ual	SMB					
Ext		SNMP					
		Services	enabled			active	4
		Socks			10	10000	
		TFTP					
		Traffic Flow					
		UPnP					
		Web Proxy	1				

Figure 3.13: Mikrotik Router Gateway Configure.

# 3.3.13 MikroTik DNS Configuration

Previous described on Mikrotik gateway configuration. Now I defined on DNS configuration. DNS means Domain Name System. Mikrotik DNS server feature provides domain name resolution for the clients connected to it. Under the following steps on DNS configuration:-

Firstly, ip select menu then dns display. Currently dns window showing. I used primary dns {8.8.8.8} on servers menu. And another dns ip {4.2.2.2} select on window. Then ok finish my dns configuration.

)				admin@08:00:27:6	F:7F:81 (MikroT	ik) - WinBo	x v5.20 on x8	96 (x86)	- • ×
0	0	Safe Mode							🗹 Hide Passwords 🔳 🕯
1	Interfa	ices							
	Wrele	55							
	Bridge								
	PPP								
	Mesh								
	IP	N.	ARP	2					
	IPv6	P	Accounting						
	MPLS	(P)	Addresses						
	Routin	1 Q	DHCP Client						
	System	n P	DHCP Relay						
	Queue	ia i	DHCP Server						
	Files		DNS	DNS Settings					
	Log		Frewal	Servers:	8.8.8.8	•	OK		
Ľ	Radius	8	Hotspot		4222		Casad		
L	Tools	n,	IPsec			-	Genote		
Ľ	New T	Terminal	Neighbors	Dynamic Servers:	· L		Apply		
L	ISDN	Channels	Packing		Allow Remote R	equests	Static		
	KVM		Pool	Max UDP Packet Size:	4096		Cache		
	Make	Supout nf	Routes	Cache Size:	2048	KIB			
	Manua	al	SMB	Cache Used:	8				
2	Ext		SNMP		17				
			Services						
			Socka						
Ś.			TETP						
Į.			Traffic Row						
3			UPnP						
2			Web Prony						

Figure 3.14: Mikrotik Router dns Configure.

# 3.3.14 MikroTik NAT Configuration

Previous router DNS configure and then next my point on Mikrotik NAT configuration. NAT means Network Address Translation. Under the following steps on Mikrotik NAT configuration:-

- At first, ip list then firewall menu & press on NAT menu & then press on include recent window {+} option. And display shown currently.
- Secondly, press the menu bar Chain: srcnat and Source Address: {192.168.0.0/24} down window menu & select Action: masquerade from action window & press appeal & select ok then finish my configuration.

64	Safe Mode								Hide Pa
Interfa	aces	Frend						1	
Wirek	ess	Fiter Rules NAT M	Janole Service Port	Connections Address Lists Laver	Protocole				1000
Bridge	0			Anat Counters 00 Read Al Counter			Tima	1.64	121
PPP				Die Adden Die Ser Produces	Du Du	1. In 10 11	in	Darlah	
Mesh	é	# Action C	Jan Jarc. Add	ress [Ust. Adoress [Proto] Src. Port	Ust. Port	in. nterjOut. nt.	. Dytes	Packets	
IP	9.	ARP	New Frewall Rule						
IPv6	1	Accounting	General Advance	ed Extra Action Statistics				OK	
MPLS	s t	Addresses	Chan:	Sronat			Ŧ	Cancel	_
Route	ng l'	DHCP Client	Ser Address	192 168 0 0/24				hash	_
Syste	m 1	DHCP Relay	Die Maria	1. 196. 199.9 0 5 1			51	uppa	
Queu	es .	DHCP Server	Ust. Address:					Disable	
Files		DNS	Protocol:				<b>•</b>	Comment	Ŕ.
Log		Firewall	See Post				+	Copy	- 11
Radiu	18	Hotspot	04.044	E.				Damoura	
Tools	- D	IPsec	UBL FOR	1			신물	1 Marrie Vie	
New	Terminal	Neighbors	Any. Port.				- T	Reset Count	ters
ISDN	Channels	Packing	P2P;				•	Reset All Cou	nters
KVM		Pool	In Interface:	(			•		
Make	e Supout rf	Routes	Out. Interface:	WAN					
Manu	Ial	SMB							
Exit		SNMP	Packet Mark:				•		
		Services	Connection Mark:				•		
		Socka	Routing Mark:				•		
		TFTP	Routing Table:	6					
		Traffic Row					19220		
		UPnP	Connection Type:				•		
		Web Proxy	Connection State:				-		

Figure 3.15: Mikrotik Network Address Translation Configure.

# 3.3.15 MikroTik DHCP Server Configure

DHCP means Dynamic Host Configuration protocol. DHCP assigns IP addresses to hosts and comes as a client and a server

			admi	n@08:00	):27	:6F:7F:	B1 (Mi	kro	Tik) - V	/inBo	x v5.20	on x8	36 (x86)		
0	Safe Mo	ie												🗹 Hide I	Passwords
Inte	erfaces														
Win	eless														
Brid	ige														
PP	P														
Mer	sh			8											
IP		1	ARP	DHC	Þ Ş	erver									
IPv	6	r	Accounting	DH	CP	Network	s Lea	ses	Options	Alerts					
MP	LS	P	Addresses				88	7	DHCP	Config	DHCP	Setup	1		
Rou	uting	P.	DHCP Client		Na	me	/	Int	erface		Relay	Lea	se Time	Address Pool	Add AR
Sys	tem	È.	DHCP Relay				104	3,623	0127.00	-	10,01.78	1.753	S. See Million		
Que	eues		DHCP Server				HCP S	tup	į.						
File	s		DNS			1	Select in	tería	ace to run	DHCP	server on				
Log	,		Firewall				DHCP S	erve	r Interface	LAN	ĺ				Ŧ
Rad	dius		Hotspot												
Too	ols	È.	IPsec												
Ner	w Terminal		Neighbors												
ISD	N Channels		Packing									E	Back	Next Cano	el
KVI	М		Pool			r						1			
Ma	ke Supout ni		Routes												
Mar	nual		SMB												
Exit	t)		SNMP	Oite	ms										
			Services	-			_					_			
			Socks												
			TFTP												
			Traffic Flow												
			UPnP												
			Web Praxy	-											

Figure 3.16: DHCP Server & Select interface to run DHCP Server.

DHCP Setup			
Select network for DHCP	addresses		
DHCP Address Space:	192 168 0 0/24		
	Back	Next	Cancel

Figure 3.17: Select network for dhcp addresses.

DHCP Setup			
Select gateway for given ne	etwork		
Gateway for DHCP Networ	k: 192.168.0.1	1	
	Back	Next	Cancel

Figure 3.18: Select Gateway for given network.

DHCP Setup Select pool of in addresse	e given out by DH(	"P server	
Addresses to Give Out:	192.168.0.2-192.16	8 0 254	¢

Figure 3.19: Given select pool of ip by dhcp server

Select DNS se	ervers			
DNS Servers:	8888			+
	4.2.2.2			•
		Back	Next	Cancel

Select lease time		
Lease Time: 00:30:00	 	

Figure 3.20: Select Dns servers and DHCP select LEASE TIME.

	s Leases	Options Alerts				
		DHCP Config	DHCP	Setup		
Name	/ Int	erface	Relay	Lease Time	Address Pool	Add AR
dhcp1	LA	N		00:3	0:00 dhcp_pool2	no
	ľ					
		Setup has comp	pleted succ	cessfully		

Figure 3.21: Dhcp configure message

# **3.4 Challenges**

Teaching is too much significant for internship is the premier line, First time intern students faced many problem by internship, That it obligation take steps education for

purpose matter. Occasion have many personality and education can be resolved it. Education perform defined ability, idea, grown representation on internship background.

- **4** Induction of actual placing of networking.
- **4** Combined and trade internet service.
- **4** Various network planned on local network or composed the labyrinth.
- **4** Making diagram, sketch, and another ocular for supervisor service.
- **4** Subscribe progressing work and representation of computer.
- **4** Managed customer information.
- 🖊 Device Admin.
- **↓** IT assistance appointment.
- 4 Industries virtual private network Serving & Analysis.
- **4** Safety Specialist.
- **4** Server Monitoring.
- Wetwork Research & Development.
- **Wireless Engineering**.
- VoIP Engineering.
- Cloud Networking Architect.
- **Wetworking Consultant.**
- **4** Networking Account Manager.

### **CHAPTER 4**

### **COMPETENCIES AND SMART PLAN**

### 4.1 Competencies Earned

Later succeed internship on daffodil online limited, I have collect learning of different Error and solving. Presence some working on technological knowledge. By internship time I have attribute many Competency earned .That earned I was try to done proudly. That Competency earn are point under listed:-

- Determination hardware and software matter, with it product or Customer closing.
- **4** Redact common method maintain or assistance.
- **4** Device directorate, control and determination.
- **4** Search authorization for middle par matter.
- **4** Experiment our organization website take step hebdomadal information.
- **4** Increased our technological intellectual for tangible matter.
- **4** Improvement my human mind simultaneously.
- Hand knowledge on job position.

### 4.2 Smart Plan and Reflection

In All solution displays that, daffodil online Ltd is not providing a optimal equality of service. In All mind client did not gleam on elevated amount of gratification. This characteristic an optimal serving moved on too much decrease the displeasure customers who likely didn't delight the wicked situation.

I have several request and smart plan for the optimal equality of serving give to the client. Various law for good serving and smart plan are given listed :-

**Grown** the internet fastness.

- **4** Changing the price.
- **4** Appointed occupational administration.
- **4** Ethnic fund success.
- **4** Exceeding shopping experiment.
- 4 Center or worthy period schedule.
- **Understood client matter or step want to resolve the matter.**
- Client should be put known of prosperity.
- **4** Added recent making this service.
- Potential user safety or eliminate wrong bill.
- **4** Recent publicity circular mobility.
- Speedy technological action the customer.
- **4** Outlet to outlet menu gathering with organisation.
- **4** Session by the customers outcome.

#### Reflection

Seeing work can be a true objection, Moreover if i do not have some knowledge. A satisfied internship be able to aid me change a expertise in profession scope. Consequently, this my necessary internship future reflection schedule.

- 1. Outline and protection server for our tangible livelihood.
- 2. Aspect and protection mikrotik router it will given me a better job.
- 3. Maintained Work in IIG, IGW it will given me good job.
- 4. Configure different types of software that is applied to internet service provider team for the Customer control scheme. This learning will support me better job.
- 5. System error and several matter that is increased appear learning help to advance expertise.

### **4** Data Center Networking Specialist

After successful mine project, I have challenged to job several type of networking for Local Area Network, Metropolitan Area Network, Wide Area Network. Networking Consultant, Networking Sales specialist be possible took network strength necessity and model a structure this can manage it or besides display, managerial the network.

# **4** Network Technician

Internet Service Provider given me a challenge to job a Network Technician, As a Network Technician duty given all technical support, Kind of all software Concerned, All operating system error correction and detection. All Requirement given as a network technician help and confirm method is ever operable.

# **4** Cloud Networking Architect

IIG,IGW and other Network company gives me an chance to work as cloud networking architect, System Analyst Voip Operator Network Manager, Network Safety Operator and Wireless Operator.

#### **CHAPTER 5**

### **Conclusion Future Profession**

### **5.1 Discussion and Conclusion**

This temporary job aims to extend information and able to make isp setup and leading on the linux stage. Configure entry-level location focus data, Linux unexpected, Linux supervisor, and network safety and ploy, and over linux may be a full-winged collector, hybrid unix operating structures, including free programming related abundance, elite support for system administration. the character of the Linux programming makes it a minimal effort, a strong, powerful processing layer is suitable for corporate server conditions. this whole hand course provides information and aptitudes which can introduce you to a Linux server for informative, informative and basic system administration. along side improving the foremost recent forms and server security, you see the role and reconstruction of the programming department. The Linux OS and MikroTik provide a comprehensive introduction of reliable, steady and successful administration. The Linux OS provides a comprehensive introduction of reliable, stable and successful administration. We aren't the sunshine of its administration, but its decision is totally freed from charge. It includes most system administrators, Web server pioneer, Telnet, SS, FTP, DNS, mail and an excellent deal. Various parts of Linux are considered or made as a feature of classical works, for instance, graduate proposals. Today most organizations are highly hooked in to their work on the web it's impossible to manage service but without proper network design. Networks fully manage their networks and achieve the goals of the businesses. As a result, a network Designers should have knowledge about network design. MikroTik may be a very low-cost router which will be useful for little networks. Through Access through Winbox As a result, micro-tick routers are often easily managed. Provide considerable security for the network MikroTik can provide powerful wireless access. Point and web proxy server management. We would like to understood about the essential network design and primarily learn the project.

### **5.2 Scope for Future Profession**

This temporary job aims to increase information and Finding work are often a true mind, specially if I do not have some expertise. A satisfied internship perform help me change an expertise into a profession scope. So as a victories internship my future goal are going to be.

- **4** Configure and protection server for our actual livelihood.
- **4** Worked in internet service provider.
- Work in IT industries.
- **Work on Networking expertise.**
- ✤ To be Network Analyst
- 4 Network Solutions Architect
- Network Manager
- Network Security Specialist
- Wireless Networking Engineer
- **4** Networking Consultant
- 4 Networking Program Manager
- ✤ VoIP Engineer
- Cloud Networking Architect

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# Appendices

### **Appendix A: Internship Reflection**

The primary goal of my internship in a professional setting, practical solutions to realworld problems is to apply the knowledge gained in the classroom. And professionally relevant competencies and relationships in a professional setting, learning to deal with new knowledge, skills, and the ability to determine how to sharpen and develop plans. Add to network with other professional's supervisors and professional relationships. To fulfill the duties of my internship, I'm exercising proper business etiquette. I am an organization's mission / vision is implemented, how to contact colleagues, how power is shared, how it is structured, how decisions are made, how to understand the culture of a professional organization, and what degree of accountability and feedback to the organization. With an assessment at the end of my internship supervisor and internship experience running through individual meetings provides an opportunity to take a professional opinion. Internship experiences to prepare for life in a global society, leadership and service, my gift to be able to put it to use.

# **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				

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