

DESIGN A NETWORK SECURITY MODEL FOR THE RUPALI BANK

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A Project Report Submitted Partial compliance with the Bachelor of
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DAFFODIL INTERNATIONAL UNIVERSITY

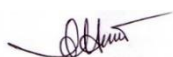
DHAKA, BANGLADESH

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APPROVAL

This internship report of “Design a Network Security Model for the RUPALI BANK” submitted by Monoara Jahan Mita ID:171-15-9201 to the department of Computer Science and Engineering, Daffodil International University (DIU) has been accepted as satisfaction for the partial fulfillment of the requirement for the degree of bachelor science in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on October 8,2020.

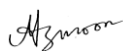
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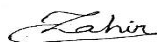
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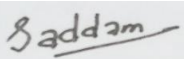
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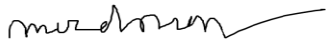
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DECLARATION

I, hereby declare that the work presented in the internship report is the outcome of the investigation performed by us under the supervision of **MD. Riazur Rahaman Lecturer, Department of Computer Science and Engineering** Daffodil International University. We also declare that no part of this project has been or is being submitted elsewhere for the award of any degree or diploma.

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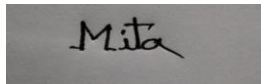
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I would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, I must acknowledge with due respect the constant support and patience of our parents.

ABSTRACT

Rupali Bank Limited is one of the recognized banks in our country. Banking sector in Bangladesh has been pursuing the policy of expansion and growth of branches. People and the government itself are very much dependent on the service provided by banks in the financial markets. To know how well commercial banks perform actually No country can do itself without interaction with other countries in any respect. The main reason behind it is that no country is self-sufficient with everything it requires to provide its people. One country can be able to produce some item more in amount than it needs. Everybody though linked with international trade somehow in the globalization era today, This study has intended to serve that purpose of giving an overview of import export procedures along with a highlight on foreign remittance and that from Rupali Bank Limited, Local office perspective. The study gives an insight into the procedures and formalities maintained by Rupali Bank Limited in handling international tradeimport, export, along with foreign remittance. The study has been conducted largely depending on secondary data sources such as manual, annual reports, and other documents.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

internship main purpose in Rupali bank was to achieve good experience in practical fields to spread knowledge pertaining data centre management, networking operations and use tools in Network centre of a bank. This is a huge advantage to gather in practical field to gain knowledge about data centre. And uses of many tools in Network Operation of a bank. In the field of CSE Department, how to convert analogue and digital communication systems,

Transfer information and communication computer networks provide a resourceful appendage to relevant learning and understandings. Practical experience through internship in data centre management is a profound and apt way of accumulating necessary expertise as a student of Computer Science and Engineering. In the field of Computer Science and Engineering, ideas at simple and computerized correspondence frameworks, data handling and PC correspondence systems give a clever member to applicable learning and understandings. Down to earth involvement through entry level position in server farm the executives is a significant and adept method for collecting vital mastery as an understudy of Computer Science and Engineering.

1.2 Motivation

For internship is better place for building work experience in professional life. And achieve good discipline. It is a momentary commitment more often than not performed to satisfy scholastic prerequisites. An entry level position is an astounding path for an assistant to validate the believability of picked profession alternative to seek after. It really creates proficient work propensities, giving a comprehension of corporate societies and condition. It can likewise be an open door enhancer for a future all day work, It is vital to reporter to the hypothetical foundation given by the college with the down to earth working condition, which can be accomplished appropriately with a temporary position.

1.3 Internship Benefits

An internship enables to gain first-hand exposure of working in the real world. It also allows students to harness the skill, knowledge, and theoretical practice they learnt in university. Internships provide a nice learning curve for students with little experience of the professional world.

- Gain valuable work experience.
- Explore a career path.
- Give yourself an edge in the job market.
- Develop and refine skills.
- Receive financial compensation.
- Network with professionals in the field.
- Gain confidence.

1.4 Expected Outcome

After finished my internship want to be network expert for future life in my carrier, It is helpful to get job, so good experience can be help to get better position.

1.5 Report Layout

Chapter 1 focuses on the introduction, internship motivation, benefits of internship.

Chapter 2 highlights on about Rupali Bank, Bank's Mission, Related Works, Scope of problem, Milestones in the development.

Chapter 3 discusses about Network Infrastructure, Network Management, Branches Support, LAN and WAN Monitoring.

Chapter 4 details in Data Centre management, component of Data Centre. Chapter 5 focus on MikroTik Installation, configuration, virtual machine uses.

Chapter 6 discusses about Conclusion and Future Career, experience, outcome in this Internship.

CHAPTER 2

ORGANIZATION

2.1 About Rupali Bank Limited

Rupali Bank Limited was formed under the auspices of Bangladesh Banks (Nationalization) on March 2, March 2, 1992, in East Pakistan, which was formed in conjunction with the previous three Commercial Banks, Muslim Commercial Bank Limited, Australia Bank Limited and Standard Bank Limited. Rupali Bank acted as a nationalized commercial bank until December 6, 2006. Although the bank has gone public, most of the shares are still protected by the government.

Rupali Bank Limited debuted as the largest public limited banking company on December 5, 2006.



Head Office

Rupali Bhaban

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Phone: +88-02-9551624-25, +88-02-9551525, +88-02-9552184

Fax: +88-02-9564148, +88-02-9552671

E-mail: info@rupalibank.org

www.rupalibank.org

2.2 Bank's Mission

- a) Build long-term relationships that help our clients achieve financial success.
- b) To offer career opportunities and build on employees' commitment
- c) Supporting ethical values and meeting its customer's financial needs in the quickest and most appropriate way to acquire human resources with the best qualities, technical infrastructure and service packages, and continue to innovate.

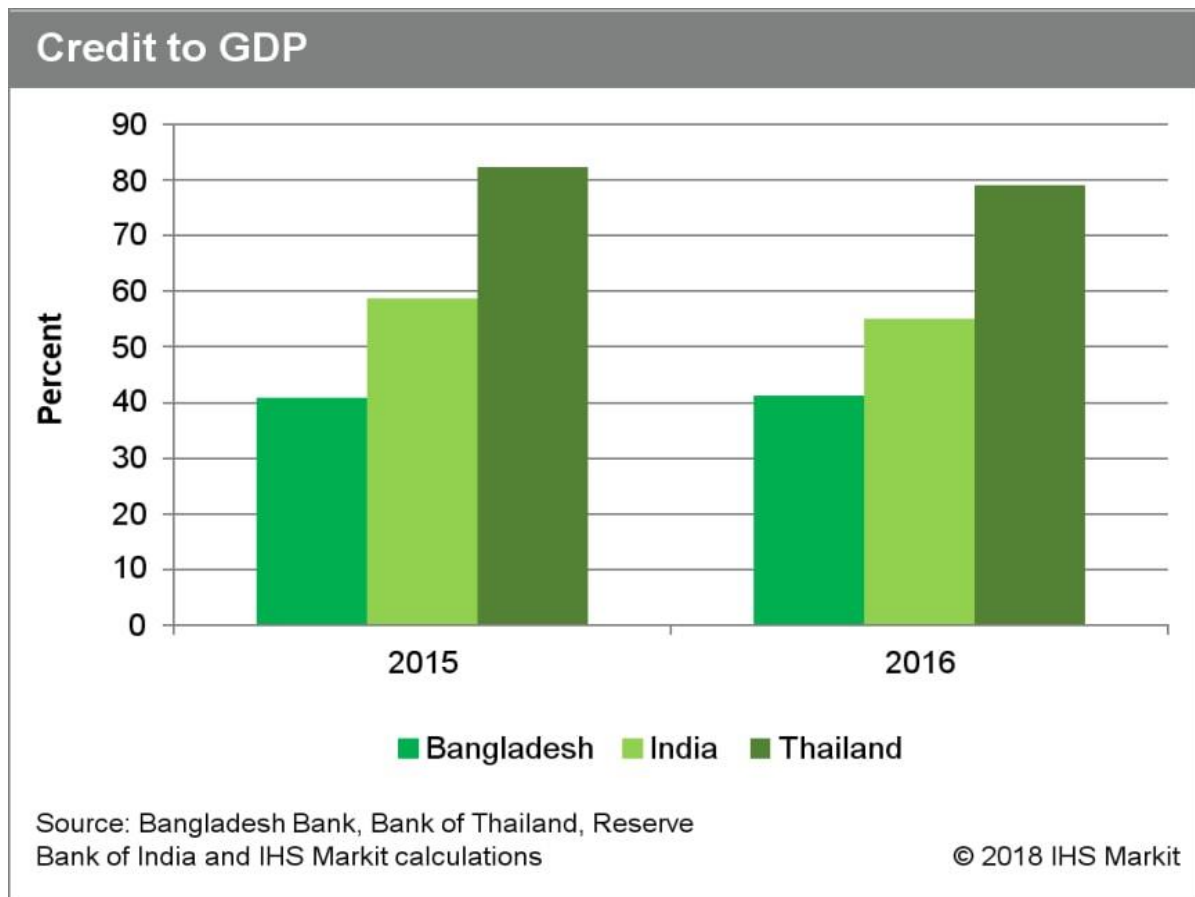


Figure 2.2.1 Bank Development

2.3 Related Works

- a) Infrastructure IT
- b) Business IT
- C) IT services
- d) IT Procurement and Maintenance

2.3.1 Infrastructure IT

This IT section provides Internet LAN connection at the main branch, Network management controls all types of threads in network management and basically controls the data center where all data is stored in this data center, first I worked for LAN connection.

- a) New LAN and IP link given in common division.
- b) Internet access enabled after two new LAN connections made available via new LO rack.
- c) Maintain daily telephony and physical assistance, as well as in the headquarters chamber of the various HO and LO departments;
- d) The WiFi connection has been reset and the GM chamber updated after proper functioning

2.4 Scope of the Study

As a student, my degree was pressured and retained for reasons unknown. I left off some official rituals for my report data's social events. This assessment would offer Silver Bank Limited's implementation of the budget as likewise an unacceptable idea as the various items of Silver Bank Limited are linked as different parts of companies. The financial position of the financial business bank is, for the last time, based on its current multi-year launch.

- a) Information availability for Financial and Networking.
- b) With Good communication and behavior.
- c) Gaining knowledge of wide area.
- d) Good working environment

2.5 Scope of the Problem

Networking systems always face different types of problems, so it is difficult to grasp this problem. Silver Bank has a total of 570 branches and is connected to all networks, there is branch support for LAN and other networking issues.

- a) Main power switch off in this router.
- b) Network buffering,
- c) Highly data loss 15-30% for transferring data.
- d) Cable does not work properly.
- e) IP configuration changed.

2.6 Milestones in the development Rupali Bank

December 31, 2018 - 12 silver milestones. 5 Awards ... Director, Bangladesh

Municipal Development Fund ... Mobile banking is another milestone in silver.

2.7 Divisions of the Management system

Describe the Rupali bank managements systems:

Investment Division: This division has the authority to decide from the bank the faction or the buyer who will acquire the credit facility. Credit buyers are selected based of credit company policies.

Financial Administration Division: The credit proposal, disbursement, tracking and credit recovery position given by all units can be done by this division.

Audit and Inspection Division: This division will oversee all the economic status, organizational culture activities.

Section of Marketing and Public Relations: This section currently works to boost the marketing network, to enforce marketing strategies and the belief of Trade Marketing

General Service Division: With the exception of the credit and financial sector, this division will perform all role programs.

This division integrates all administration activities

Human Resource Division (HRD): This division deals with workers as the organization's core tools.

Machine (IT) Division: IT things can be performed by this division.

Each branch has its own IT division and all branch wise processes are reported to the IT section of the head office

2.8 Organizational Profile Structure



Fig 2.2.2: Organizational Profile Structure

CHAPTER 3

NETWORK INFRASTRUCTURE

3.1 Network Infrastructure in Rupali bank Limited

Responsible for leading the ICT department of silver bank and strategic alignment of information and communication technology with innovative banking business (alternative banking, mobile banking, e-banking etc) ... At least 12 years of experience in the ICT sector with a minimum of 5 years experience in banks / financial institutions.

Rupali Bank distributed into the following categories—

- a) Network Management
- b) Hardware Management
- c) Data Centre Maintenance
- d) Internet Support
- e) Branch Support
- f) Mail Server

3.2 Network Management

Network Management the board is a joined term which contains the activity, techniques, tools, strategies, and apparatuses for performing various activities inside a systems administration framework.

System Management is includes—

- a) Network planning,
- b) Network monitoring
- c) Network designing, implementation and configuration

Fault management: The way toward recognizing and finding deficiencies in the system. This could incorporate finding the presence of the issue, distinguishing the source, and potentially fixing (or if nothing else disengaging the remainder of the system from) the issue.

Configuration management: The way toward distinguishing, following and altering the arrangement of gadgets on the system. This class is critical for gadgets that accompanied various custom settings

Security management: The way toward controlling (giving, constraining, confining or denying) access to the system and assets consequently. This could incorporate setting up and overseeing access records in switches (making "firewalls" to keep interlopers out), making and keeping up secret word access to basic system assets, distinguishing the purposes of section utilized by gatecrashers and shutting them.

Performance Management: The way toward estimating the exhibition of different system parts. This likewise incorporates taking measures to enhance the system for greatest framework execution (occasionally estimating of the utilization of system assets.

3.3 Configure of Network Element



Fig:3.3.1 Configure of Network Element

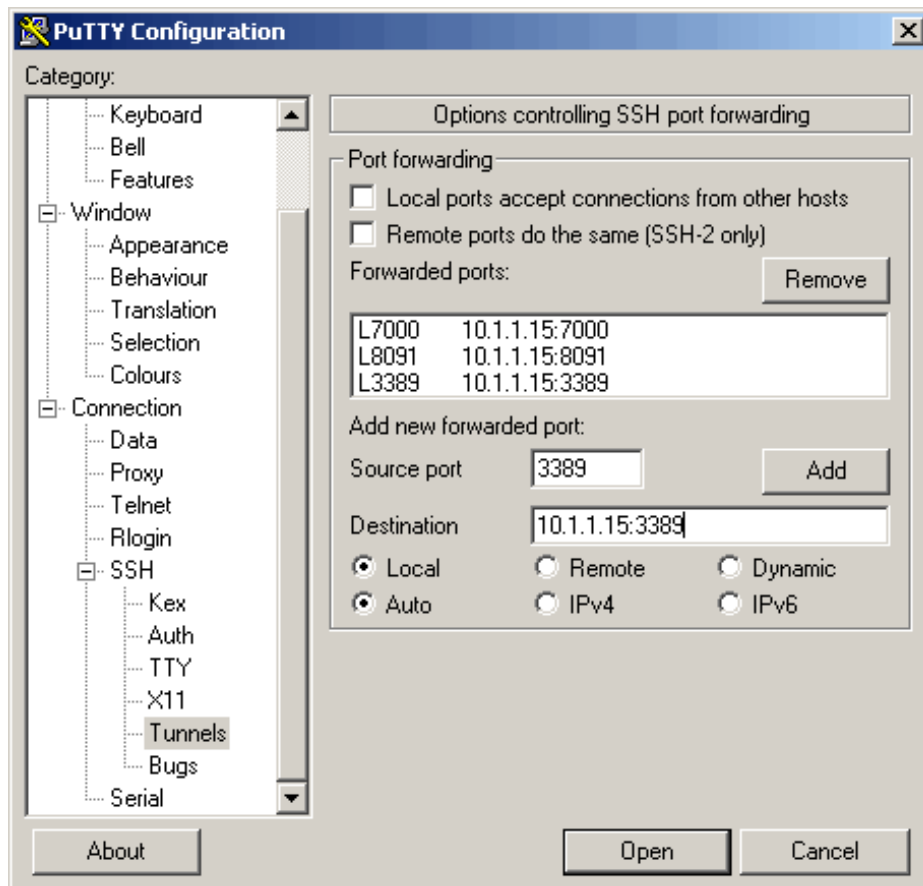


Figure 3.3.2Juniper configure with Putty

When we configure the switch we use PuTTY to access the juniper switch and configure the port by port, Putty used for the configuration switch, this option can be accessed directly.

- a) Raw
- b) Telnet
- c) Rlogin
- d) SSH
- e) Serial

3.4 LAN and WAN Monitoring

- a) Screens a Computer always attach to different administration programming resources to ensure its ideal ability

- b) Searches for any segment problems caused by overburden frameworks, shattered servers, lost device associations, infection or malware diseases, blackout control, damage, catastrophic events etc.
- c) Advise the machine head of component problems within the observed program, using distinguishing warning procedures such as email, telephone call, caution, etc.
- d) Gives measurable information such as sending/accepting messages, site visits, transfers/downloads etc. to online exercises.

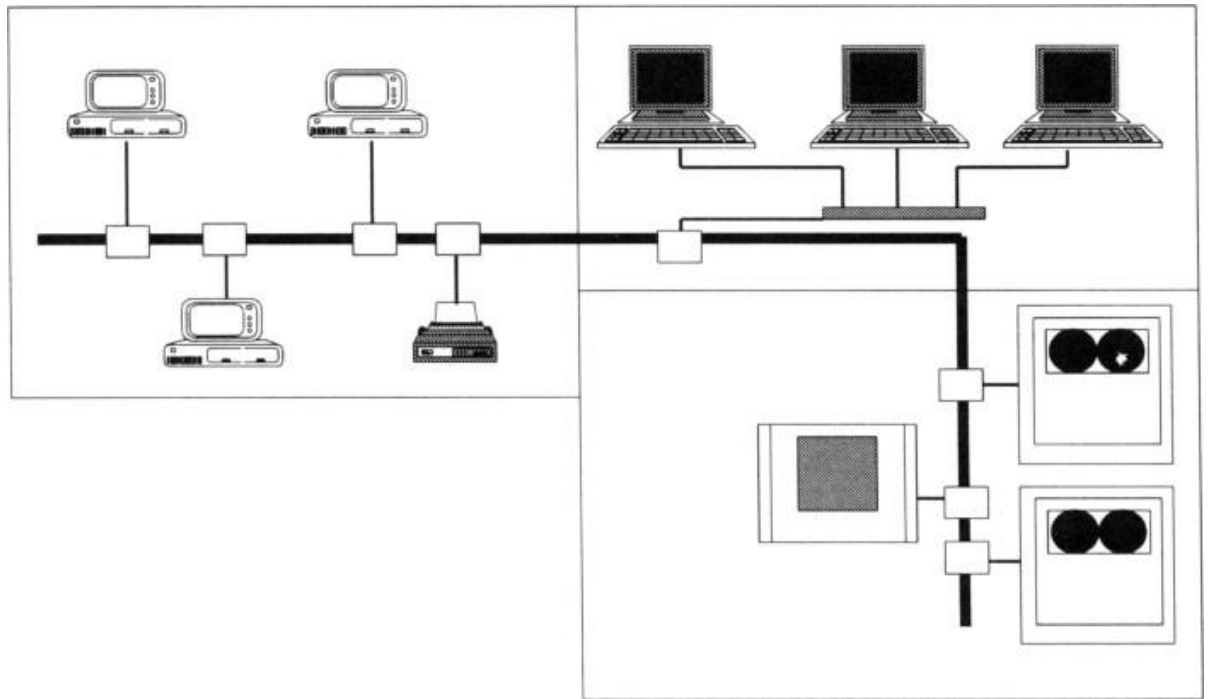


Fig: 3.3.3 LAN connection

3.5 Rupali Bank Limited All Division

- a) Information Technology Division
- b) Card Division
- c) Reconciliation Division
- d) External Audit Compliance Division
- e) Small and Medium Enterprise Division
- f) Discipline and Appeal Division
- g) Public Relation's Division
- h) Business Development Division
- i) Central Accounts Division
- j) Loan Classification Division
- k) Loan Recovery Division
- l) Government Accounts and Services Division
- m) General Advantage Division
- n) Mobile Banking Division

3.6 Organizational Structure of the Rupali Bank

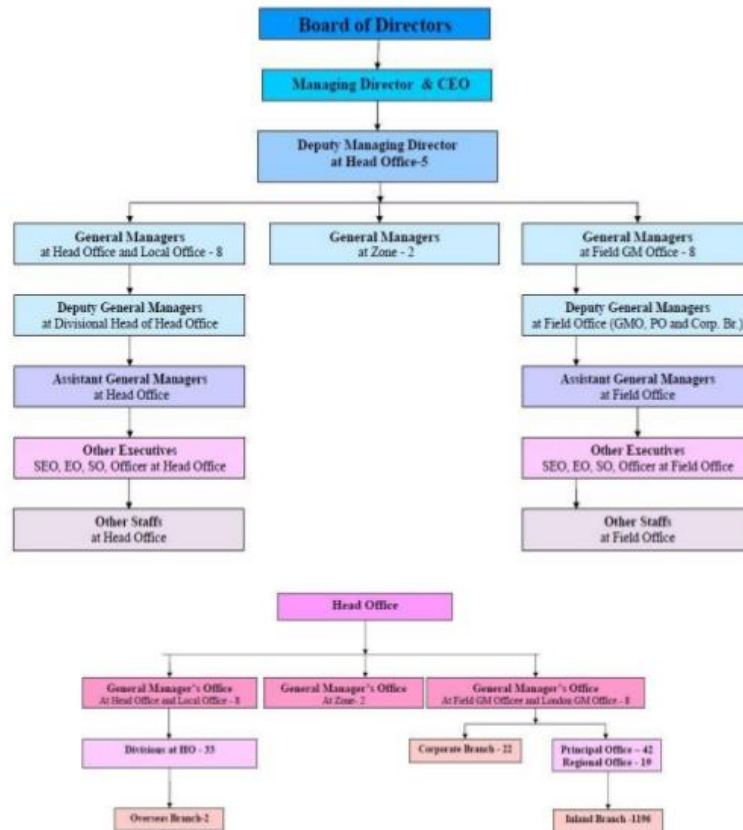


Fig 3.3.4:Organizational Structure of the Rupali Bank

CHAPTER 4

DATA CENTRE MANAGEMENT

4.1 Introduction of Data Centre

A data center is a network of resources, managers, and continuous collection of information and distributing information that contrasts with a broad variety of things related to or connected to a particular business. A data center has four required sections

Raised floor

The elevated floor used for a data center measured as an invalid area is known as a square foot. Classy floors fill as a chamber to enable circular air beneath the floor for a higher cooling structure, it similarly places the verification and encased power cablings on top, in case any data center extension occurs.

Support infrastructure

These are the extra space and hardware required to help Data Center tasks. Such gear incorporates, Equipment

- a) Power transformers
- b) Uninterruptible power source (ups)
- c) Generators
- d) Computer room air conditioners
- e) Remote transmission units
- f) Chillers
- g) Air distribution systems, etc.

4.2 Data Centre Equipmen

- a) Racks
- b) Cabling
- c) Servers
- d) Storage System
- e) Security systems

- f) Network Devices
- g) Support

4.3 Rupali Bank Data Centre Maintenance

- a) Routers
- b) Switches
- c) Serve
- d) Security components
- e) System resources (memory, storage, CPU, optical drives etc.)
- f) Operating systems
- g) Applications
- h) Accessor

Physical accessories-

- a) Lighting
- b) Power systems
- c) Fire systems

Rupali Bank use this equipment's in this Data Centre-

- a) Juniper
- b) IBM
- c) Cisco
- d) Microsoft
- e) APC

4.4 Juniper Component

The X2300 Ethernet Switch offers a lightweight, high-thickness, smart answer to situations where the price of the network and power is higher than expected. The X2300 is suitable for miniaturized divisions, retail and workgroup conditions, and access-level businesses linked to larger systems, with a slight.



Figure 4.4.1: EX2300 Switch

The Juniper MX Series is a family of elite Ethernet Services routers with ground-breaking communication highlights and is intended for co-ops and projects of elite specialists. The MX Series has achieved capabilities in MPLS, multicast, quality of service, low penetration, and security. It connects and relies on multiplayer broadband administration and high-volume Internet server firm Farming with fast-vehicle and VPN administration driven applications and administration.



Figure 4.4.2: MX480 Router

The Juniper MX 480 Tri Universal Edge Router allows for simplicity, indispensable efficiency and flexibility in demanding applications for transporters and projects.

4.5 Microsoft Elements

Includes Internet Information Services (IIS) 8.0 for Microsoft Windows Server 2012, improved security by default; advanced message queuing; Administrative software Effective Executive Directory Circle; Strengthening structure; Scripting and sequence line devices; Better group policy dealing and coordination, etc. Sonali Bank Limited hosted Windows Server 2012 on various servers in its data center as a required work structure. Data Center uses two versions of Windows Server 2003.

Comprises Windows Server 2012 R2 Internet Information Services (IIS) V8.5; New administration machinery; new functionality for Active Directory; DNSEC support; encoded VPN administration; better performance Advanced DHCP server; reduction of IPv4 addresses, and so on.



Figure 4.4.3: Windows Server 2012

4.6 Product and Market Situation

- RBL Multi-Millionaire
- RBL Money Maximizer
- RBL Earning
- RBL DPS
- Western Union Money Transfer
- Western Union Money Transfer Online Service
- Credit Card
- One Stop Service
- Time deposit Scheme
- Money Savings Scheme
- Deposit Insurance Scheme
- Inward & Outward Remittance
- Travelers Sequences
- Import Finance
- Export Finance
- Loan Syndications
- Underwriting and Bridge Financing
- Trade Finance
- Industrial Finance
- Foreign
- Currency Deposit A/C
- NFCD
- RFCD
- Consumer credit Scheme

New Products and Services for RBL

- Merchant Banking Services
- ELDORADO EFT System (will be introduced soon)
- Local Remittance
- Foreign Remittance

The Rupali bank network monitoring system:

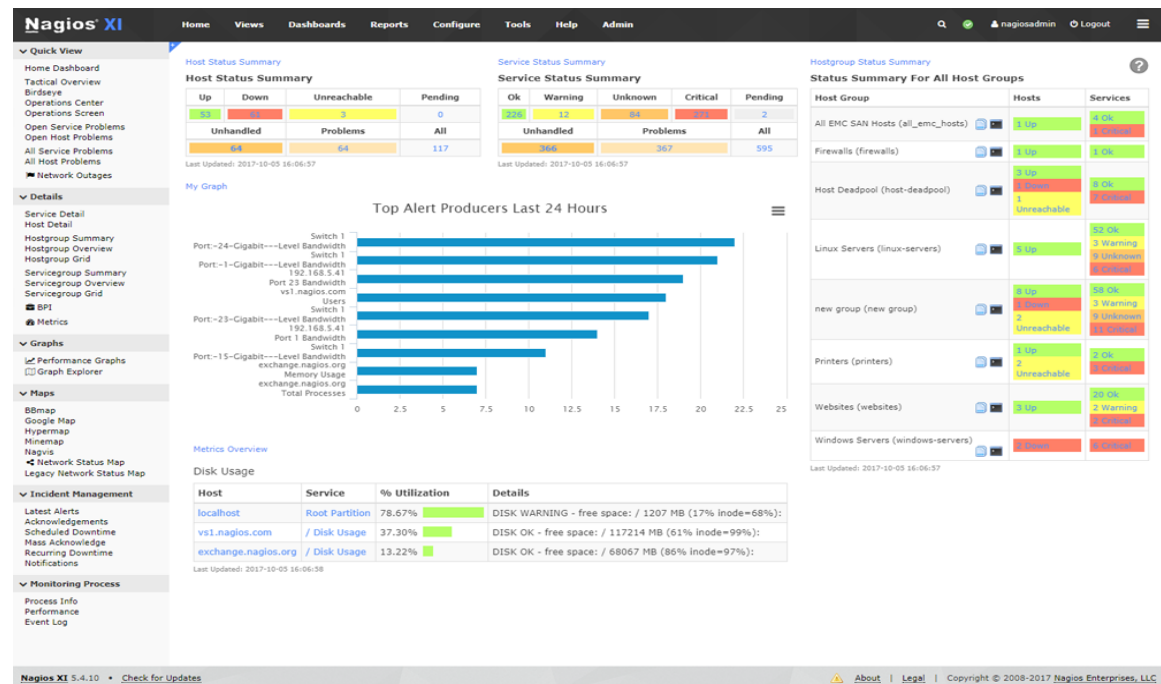


Figure 4.4.4: A screenshot of Nagios monitoring software all Network monitoring system

network design:

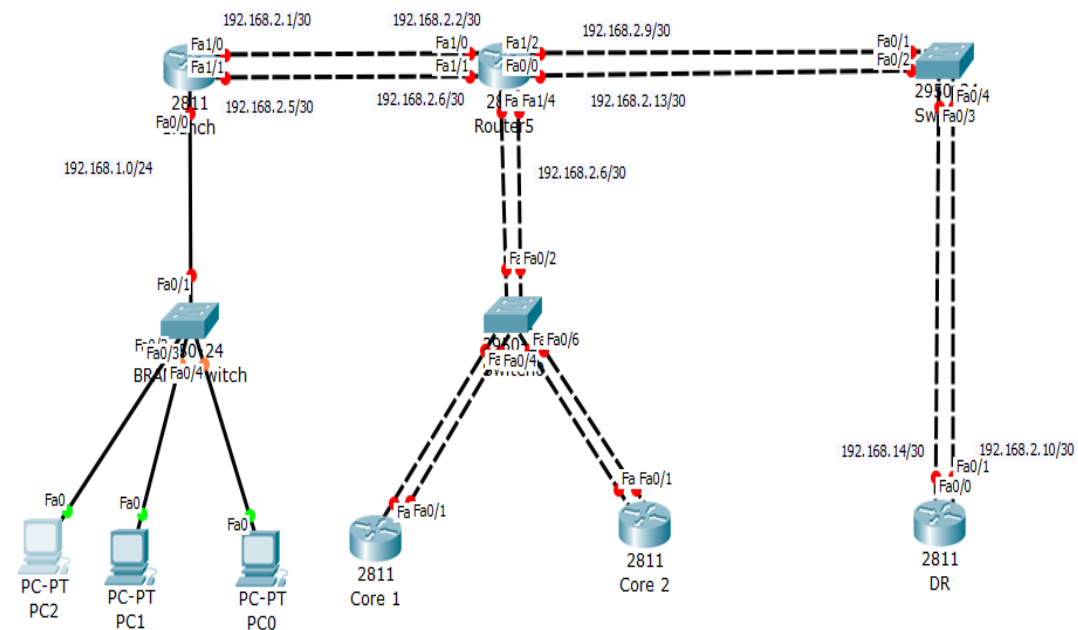


Figure 4.4.5 A Screenshot of RBL Bank Network Design & Configuration from Cisco Packet Tracer

4.7 About IP address

An Internet Protocol address (IP address) is a numerical name given by each gadget that uses the Internet Protocol for correspondence associated with a PC. Two rule controlled substances to an IP address: its host or structure interface ID and the tending zone.

Structure 4 of the Web Protocol (IPv4) contains a 32-bit number for an IP address. Even so, in spite of the growth of the internet and the depletion of usable

IPv4 addresses, another IP (IPv6) switch was made in 1995 with 128 bits and sorted out

<i><u>Rule</u></i>	<i><u>Minimums and maximums</u></i>	<i><u>Decimal range</u></i>
Class A: First bit is always 0.	00000000 = 0 01111111 = 127	1 - 126
Class B: First two bits are always 10.	10000000 = 128 10111111 = 191	128 - 191
Class C: First three bits are always 110.	11000000 = 192 11011111 = 223	192 - 223
Class D: First four bits are always 1110.	11100000 = 224 11101111 = 239	224 - 239

Figure 4.4.6: A Screenshot of Classful IP Addressing

CHAPTER 5

MIKROTIK INSTALLATION AND CONFIGURATION

5.1 MikroTik router :

MikroTik is a Latvian company founded to establish routers and wireless ISP systems in 1996. MikroTik also sells web access hardware and apps in most of the ...



5.5.1 Installation MikroTik router in VMware workstation

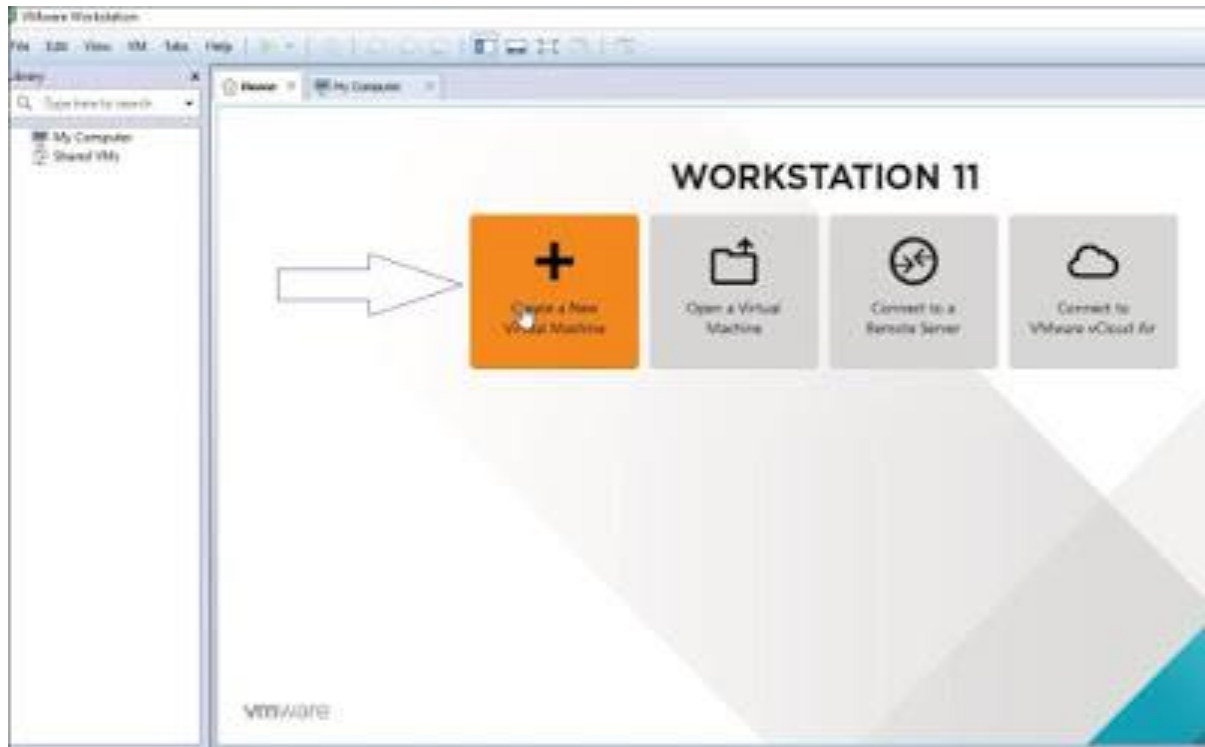


Fig: 5.5.2 VM software open

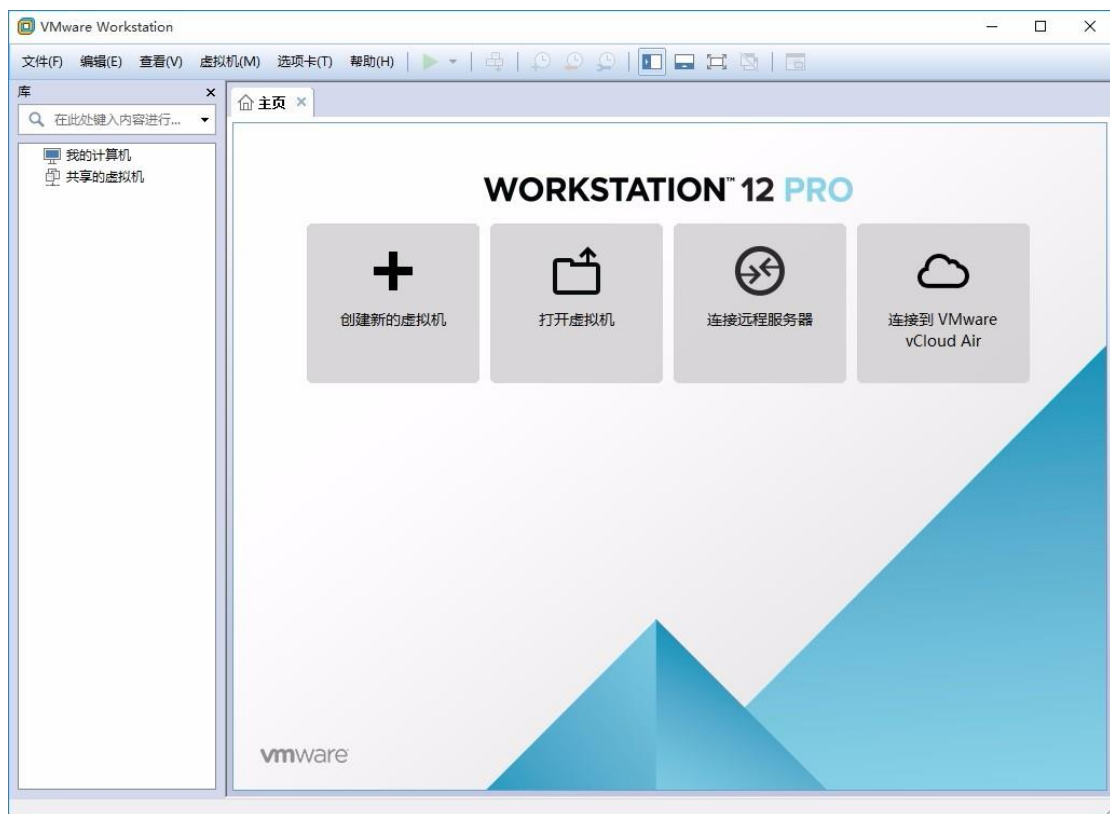


Fig: 5.5.3 VMware workstation

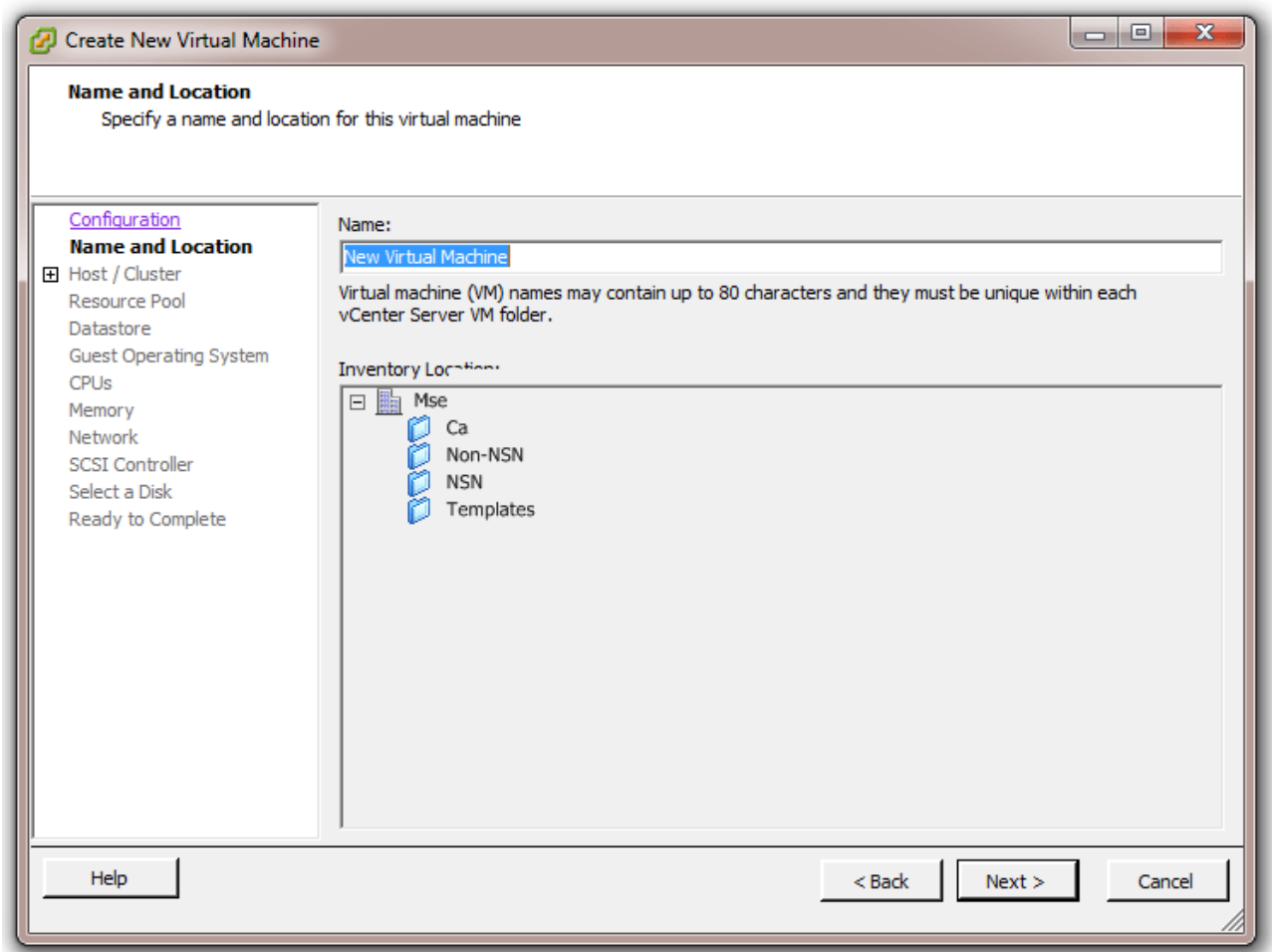


Figure 5.5.4VM Memory space

For VM memory space, this page shows how much memory you allocate for this Operating System, normally 512 MB (Mega Byte) is appropriate for MikroTik.

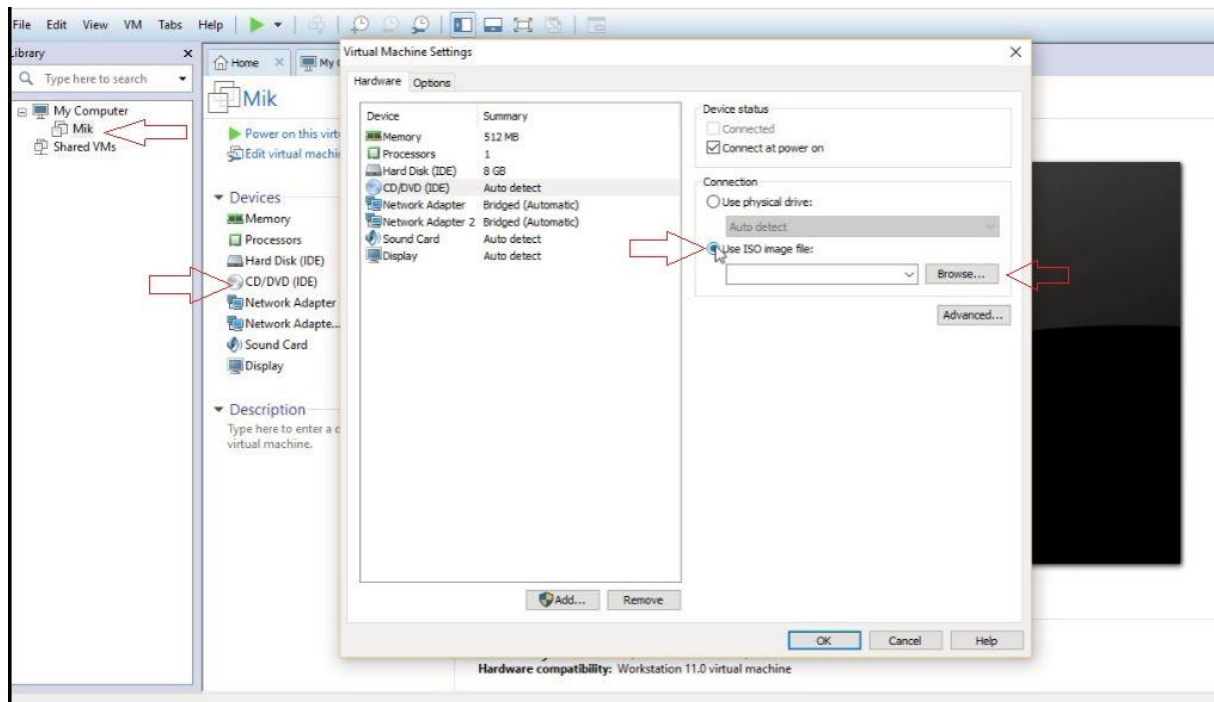


Figure 5.5.5 VM

That is the settings for the virtual machine. If OS memory space and some other modifications are required, browse the Mikrotik software then click on "Power on this virtual machine" and install Windows Welcome to the installation of the Mikrotik Router software, then complete the installation.

```

MMM      MMM      KKK      TTTTTTTTTT      KKK
MMMM     MMMM     KKK      TTTTTTTTTT      KKK
MMM MMMM MMM III KKK KKK RRRRRR 000000 TTT III KKK KKK
MMM MM  MMM III KKKKK RRR RRR 000 000 TTT III KKKKK
MMM     MMM III KKK KKK RRRRRR 000 000 TTT III KKK KKK
MMM     MMM III KKK KKK RRR RRR 000000 TTT III KKK KKK

MikroTik RouterOS 5.18 (c) 1999-2012      http://www.mikrotik.com/

ROUTER HAS NO SOFTWARE KEY
-----
You have 23h49m to configure the router to be remotely accessible,
and to enter the key by pasting it in a Telnet window or in Winbox.
See www.mikrotik.com/key for more details.

Current installation "software ID": LLGQ-7M8L
Please press "Enter" to continue!

[admin@MikroTik] >

```

Figure 5.5.6 installing MikroTik

5.2 MikroTik Router configuration with winbox

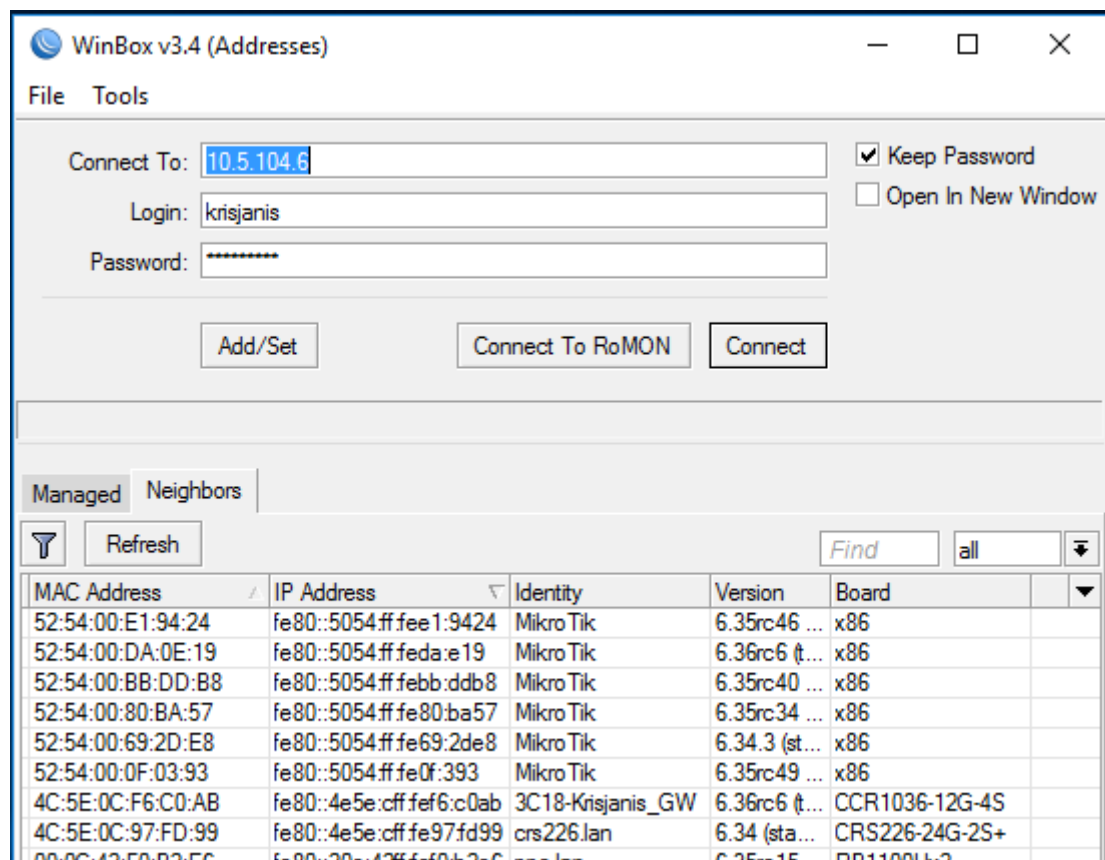


Figure 5.5.6 Login Page

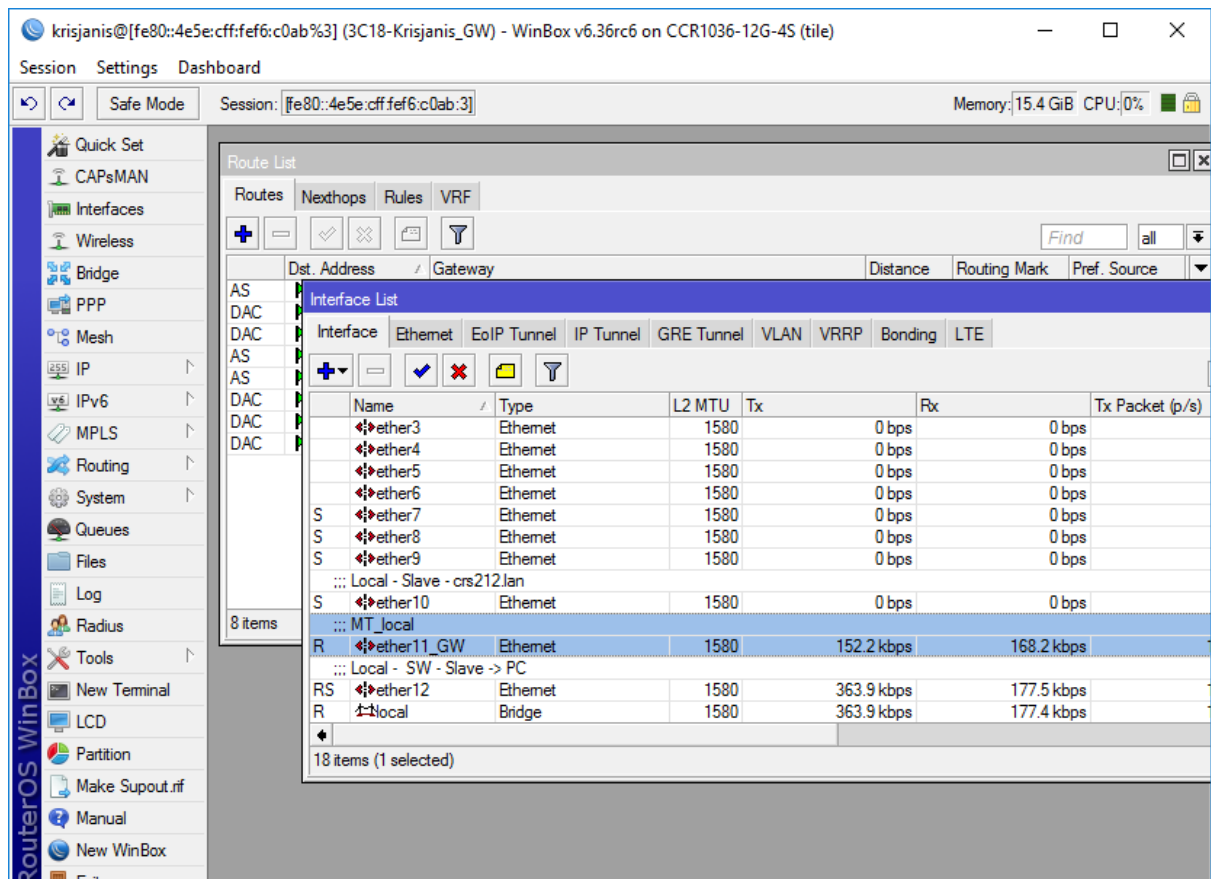


Figure 5.5.8 Configuration IP, DNS

Go to the interface, change the name of the connection you want, click the IP button and then provide IP address, subnet is required, DNS and gateway, using IP delivery system in VLSM, private IP use could be local area, if PC or other device is required. Connect the router to this network with the IP supply on this device, then it can be connected.

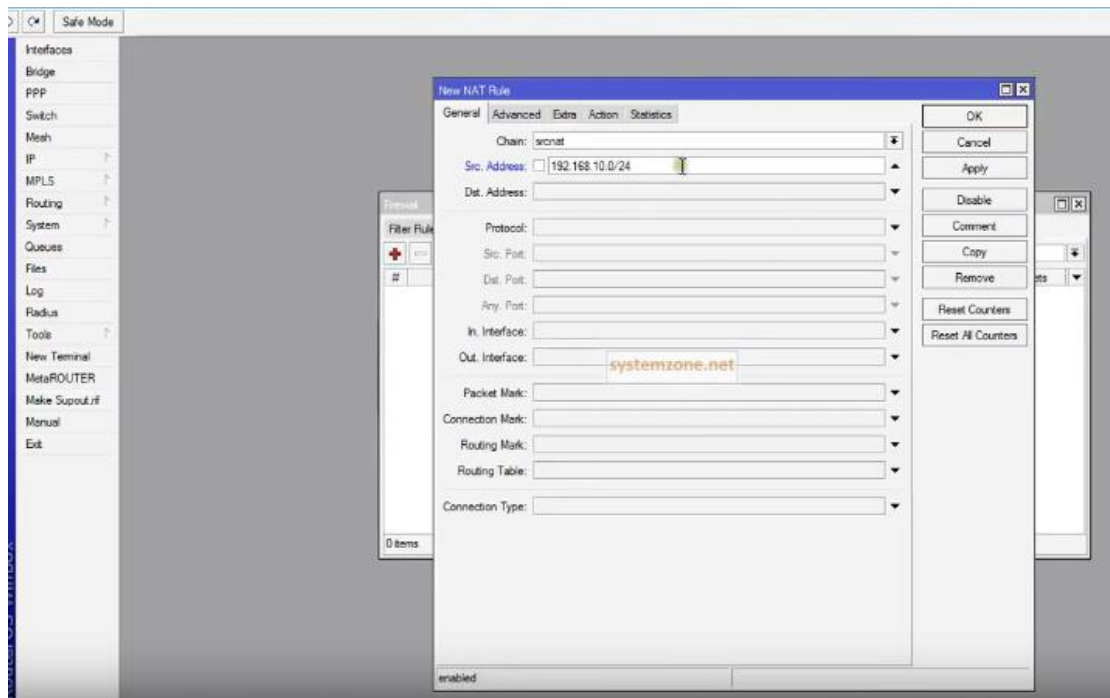


Figure 5.5.9 Routing

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

The leading testing and investigation practice staking on web operations, a very complex and significant feature of the IT department, a bit of a large, aggressive, useful, and drossing, careful understanding ability, snapy learning ability, advanced diagnostic ability, etc., I feel very impressed and calm in recording my temporary location at this highly acclaimed ICT point, in a wonderful situation. Gifts from my respected teachers from Dafodil International University, the instructions of the REPRESENTATIVES of the IT department of Golden Bank, the comfort of my family and colleagues, and, ultimately, I owe myself for my sincere efforts and productive work. I would be grateful if this temporary location report of the Golden Bank Network Operations Management System is recognized in a very positive and inviting way to reflect my devotion and authenticity. However, during my temporary work, I was given a great education, i was given a few obstacles that somehow affect my exercise. The primary concern was tim constraints. Another contribution was the set of rules that did not allow the representatives to give me much of the information below, as they were under the control of the association's mystery and classification. It should be noted that any IT-based association requires a condition to work within any IT-based association that representatives should not be a monopoly, but an experience of devices used online within the association. To meet this requirement, every delegate with the IT department is trained extensively. I'm lucky to have been able to get the system's main necessary preparation stake from them. It helped me understand the system administration practices in the short term of my temporary stay.

The education industry demands dynamic technology as visa rules and application rules keep changing and new destinations keep adding. Consultancy Firms require different methods of procedures to recruit students and therefore we have kept lead management and application process handling open and flexible for a customized experience.

6.2 Scope of Further Development

Rupali Bank Ltd., the place of many confluences of computer science and engineering, was an advancement of my place of trust, but I found the presence of a certain part of it for the consumer and most of the intelligent opinion, its name, slave university, my incredibly traveling and always honored. My fair director has led me to resolve any challenges in my temporary position in an improved manner, so I am grateful to my respected teachers for giving opportunity to Golden Bank Limited.

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