

INTERNSHIP ON ISP SETUP AND CONFIGURATION

SUBMITTED

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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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DHAKA, BANGLADESH

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APPROVAL

This Internship titled “**INTERNSHIP ON ISP SETUP & CONFIGURATION**” submitted by Md Farhan Thanvir Limon, **ID No:** 181-15-10638 and to the Department of Computer Science and Engineering, Daffodil International University, has been approved 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 9 September, 2021 has been accepted as satisfactory.

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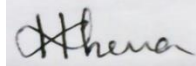
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I hereby declare that, this project has been done by us under the supervision of **Dewan Mamun Raza, Lecturer, Department of CSE**, and Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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

ABSTRACT

As a student of CSE, I have completed my internship report in NETCOM (Netcom Technologies Pvt. Ltd). The internship report is submitted for the completion of BSC in Computer Science and Engineering. In this report, I am trying to highlight what I have done and what I have learned from doing an internship. In internship as a Network engineer, my main focus was to developing my skills on networking and knowing about the switching, Routing, IP addressing, Fiber connectivity solutions and different kind of routing and there protocols. Now a day, there are lots of network engineers working on new technology. I want to learn the difference routing and switching protocols also internet protocol version 4 (IPv4) and upcoming internet protocol version 6 (IPv6) and why internet protocol version 6 (IPv6) and also know how work internet protocol version 4 (IPv4) and upcoming internet protocol version 6 (IPv6). I would need to learn about real life project. I need to learn how an actual project will manage. I am very much interested to start my carrier as a network engineer. That is why I choose the internship as "**Network engineer**". Which added values and experience for my future to career in the field of networking area. Hands on work was with the real problems from the ISP client related to server and other issues. Another key point to gain experiences. This report takes me through all the details of area project and experience gathered during the four months internship period.

TABLE OF CONTENTS

CONTENTS	PAGE NO
Board of examiners	II
Declaration	III
Acknowledgements	IV
Abstract	V
Tables of content	VI-VII
List of Figures	VIII

CHAPTER

CHAPTER 1: INTRODUCTION 1-2

1.1 Introduction of Internship	1
1.2 Objective of Internship	1
1.3 Motivation of Internship	1
1.4 Report Layout of Internship	1-2

CHAPTER 2: COMPANY'S PROFILE 3-5

2.1 About Netcom Technologies Limited	3
2.2 Cloud Well Limited Services	3
2.3 Solution And Offer Netcom Technologies:	3-4
2.4 Corporate Office & Full Building Network Structure Designing and Implementation	4
2.5 CCTV Surveillance System, Fire and Security Alarm System	4
2.6 Complete ISP Solution	5

CHAPTER 3: OVERALL CONTRIBUTIONS 6-21

3.1 Overall Contribution	6
3.2 Basic routing and types	6

3.3 Static routing	7-8
3.4 Default routing	9-11
3.5 Dynamic routing	11-12
3.6 RIP routing protocols	12-15
3.7 Enhance Interior Gateway Routing Protocol (EIGRP)	16-18
3.8 OSPF (Open shortest path first)	18-19
3.9 Typical ISP network architecture major concepts	19-20
3.10 ISP to simplify the diagram	20-21
CHAPTER 4: PROFESSIONAL GROWTH	22
4.1 Competencies Earned	22
4.2 Smart Plan	22
CHAPTER 5 : CONCLUSION AND FUTURE CAREER	23-24
5.1 Discussion and Conclusion	23
5.2 Scope for Further Career	23-24
REFERENCES	25-26
APPENDIX	27-28
Appendix A: Internship Reflection	27
Appendix B: Company Details	27-28
PLAGIARISM	29-30

LIST OF FIGURES

FIGURES	PAGE NO
Fig:3.1Static routing	7
Fig:3.2 ISO command line interface	8
Fig:3.3 Default routing	10
Fig: 3.4 ISO command line interface	11
Fig: 3.5 Model rip version 2	14
Fig: 3.6 ISO command line interface	15
Fig:3.7 Model EIGRP	17
Fig: 3.8 ISO command line interface	18
3.9 ISP to simplify the diagram	20

CHAPTER 1

INTRODUCTION

1.1 Introduction of Internship

An internship is a medium through which we work on some real projects under a particular company. This is basically a 4 month program. During these four months a student gets a chance to work on a real project and how the work is done and if there is a problem it gets a chance to be solved. With this we can make ourselves worthy in the competitive world of the future.

1.2 Objective of Internship

This Report Has Been Created for Requirement for Internship Program. The report describes my successes during internships, project partnerships and work life.

1.3 Motivation of Internship

Working at Netcom Technologies (Pvt.) Ltd. I learned how to create an original project, how to control the system. They encouraged me to build my career in network engineering and learn more about new technologies. Working with them has given me a better idea about networking. In addition to working there, I got new ideas about networking and how to manage clients.

1.4 Report Layout of Internship

In this report, I have given a description of the initial concept of my work which I have learned and it has been working continuously for 4 months.

In "Chapter 1" I have tried to describe the role of internship, the purpose of internship and the motivation of internship.

In "Chapter 2" I tried to depict the organization I finished my entry level position.

In "Chapter 3" I attempted to depict my working procedure during the internship. I expounded on the work there and gave instances of that work.

In “Chapter 4”I represent my professional growth included by Competencies earned and smart plan .

In “Chapter 5”I represent Conclusion and future Scope.

CHAPTER 2

COMPANY'S PROFILE

2.1 About Netcom Technologies (Pvt.) Ltd [1]

Netcom Technologies (Pvt.) Ltd, an Enterprise Solutions company, operating for over 20 years in the information and communications technology sector.

2.2 Cloud Well Limited Services

Our corporate policy can be summed up in 5 simple factors.

Our client share our partners, Their satisfaction is our priority, We engage our clients throughout the Project Management Lifecycle, We comply to International Standards and Best Practices, Our processes are transparent and undergo Continuous Process Improvement. We Build Optimum Networks. Our Solutions include the complete end to end requirements in the field of Enterprise Networks & Data Center Infrastructures. Our achievements have defined us for over 20 years and through a rigid process of quality assurance and control, we aim to set a trend in the information technology sector of the country, by supply, designing, implementing, testing and commissioning infrastructures that are of world class standards.

2.3 Solution And Offer Netcom Technologies

- Copper Based Systems
- Fiber Based Systems
- Cabinets, Racks and Cable Management.
- Labeling and Identification.
- Cable Ties and Accessories.
- Enclosures.
- Intelligent Systems.
- Outlets and Faceplates.
- Power and Environmental Enclosures.
- Routing and Pathways.
- Safety and Security.
- Abrasion Protection and Heat Shrink.

- Supports and Fasteners.
- Terminals, Power Connectors and Grounding
- Tools
- Wiring Ducts.

2.4 Corporate Office & Full Building Network Structure Designing and Implementation

What Netcom Technologies (Pvt.) Ltd. will give you is that you will be able to gift a job to the fullest, because the skills team that has worked in the technology industry will play a role in designing and completing your work throughout the project, far ahead of other companies in the real field. Every engineer who works and we will be able to explain the job to you at the right time because we have a lot of experience working in the network industry before. That is why you can choose Netcom Technologies (Pvt.) Ltd. for this project. 1. There is no discount on quality at all times Handed Percent Quality Insure. 2. You will be able to understand the work like time within the time given in the Vedas. 3. Don't hesitate to provide you with one hundred percent support even after the project is over.

2.5 CCTV Surveillance System, Fire and Security Alarm System, Time attendance and Access Control System, Business, Agriculture Firm, Fish Frim, All Security Solutions

CCTV Surveillance System, Fire & Security Alarm System, Time attendance & Access Control System, Business, Agriculture Farm, Fish Farm, All Security Solutions. What Netcom Technologies will give you is that you will be able to gift a job to the fullest, because the skills team that has worked in the technology industry will play a role in designing and completing your work throughout the project, far ahead of other companies in the real field. Every engineer who works and we will be able to explain the job to you at the right time because we have a lot of experience working in the network industry before. That is why you can choose Netcom Technologies for this project.

- There is no discount on quality at all times Hundred Percent Quality Insure.
- You will be able to understand the work like time within the time given in the Vedas.
- Don't hesitate to provide you with one hundred percent support even after the project is over.

2.6 Complete ISP Solution

Network access suppliers satisfy a focal job in the cutting edge data movement by going about as a conductor and getting house for the transmission free from electronic interchanges. A "specialist organization" under the Act is characterized as an individual offering types of assistance including “the provision of connections, the operation of facilities for information systems, the provision of access to information systems, the transmission or routing of data messages between or among points specified by a user and the processing and storage of data, at the individual request of the recipient of the service”We will keep you informed through our service for months, our team will provide you with the complete configuration of what configuration you need, What Netcom Technologies will give you is that you will be able to gift a job to the fullest, because the skills team that has worked in the technology industry will play a role in designing and completing your work throughout the project, far ahead of other companies in the real field.[3]

CHAPTER 3

OVERALL CONTRIBUTIONS

3.1 Overall Contribution

I have designed a network of a few small organizations in these four months and are implementing different routing and protocols. I have also some hardware problems forwarding of packet from one network to another network.

3.2 Basic IP Routing Of Types

- Static Routing
- Default Routing
- Dynamic Routing

3.3 Static Routing

- Model an small company on static routing

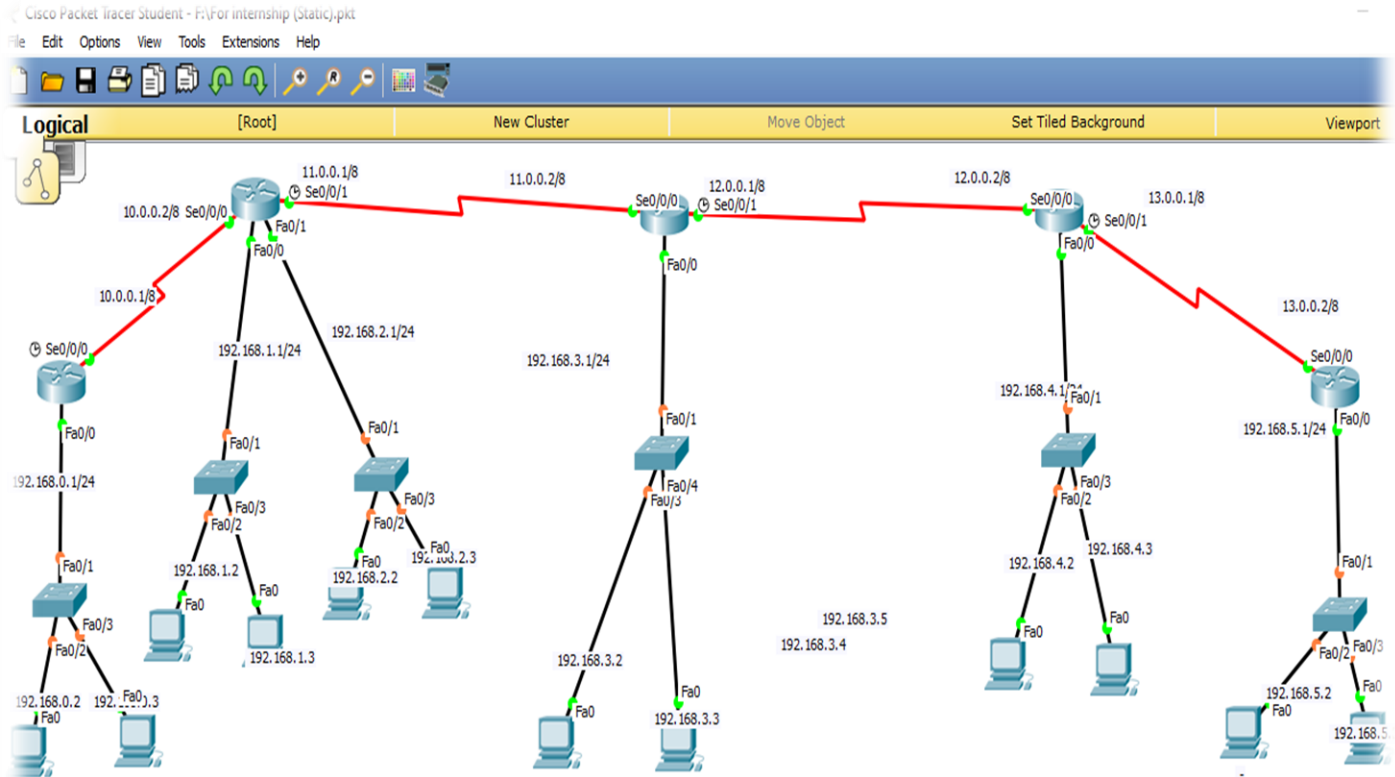
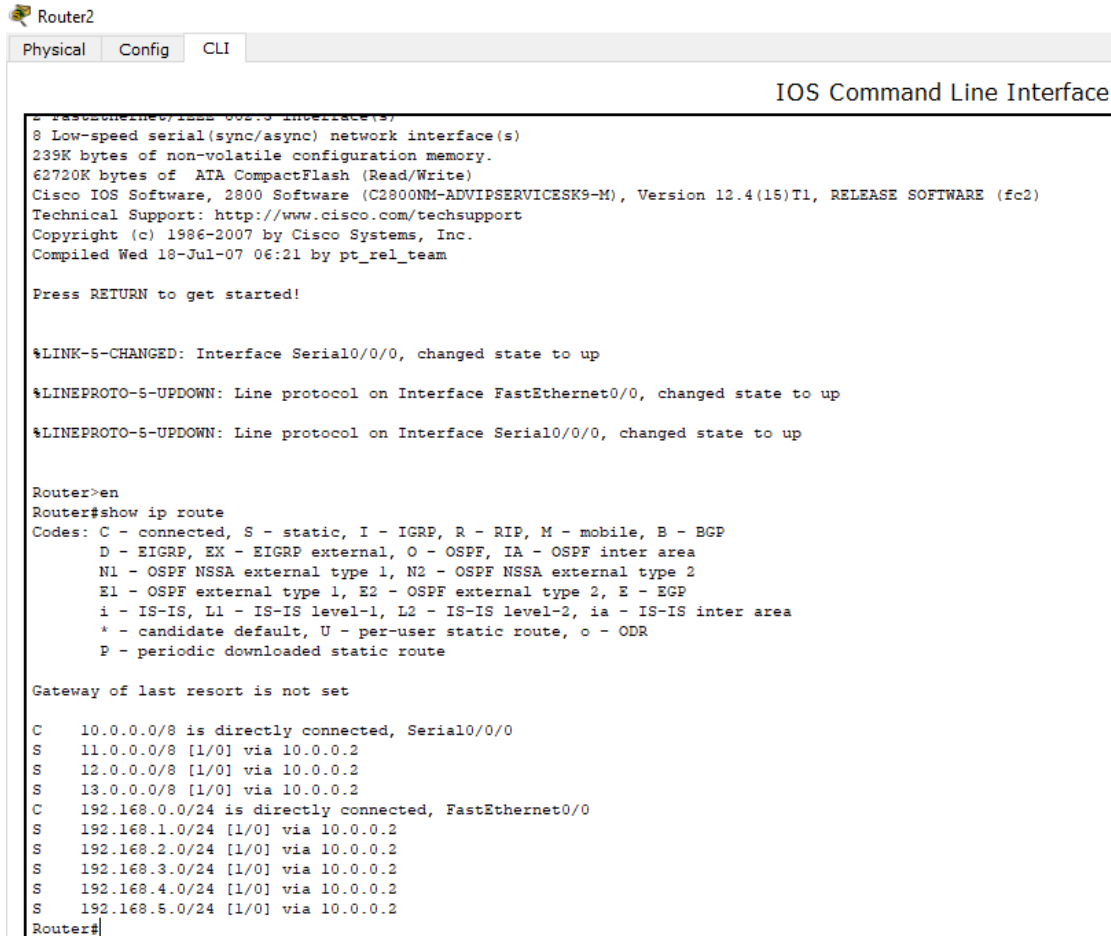


Fig: 3.1 Static routing

Command:

- IP route<destination network id><subnet mask><Gateway>

➤ ISO command line interface



```
Router2
Physical Config CLI
IOS Command Line Interface
c:\asoc\inet\1222 002.0 interface(s)
8 Low-speed serial(sync/async) network interface(s)
239K bytes of non-volatile configuration memory.
62720K bytes of ATA CompactFlash (Read/Write)
Cisco IOS Software, 2800 Software (C2800NM-ADVIPSERVICESK9-M), Version 12.4(15)T1, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 18-Jul-07 06:21 by pt_rel_team

Press RETURN to get started!

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, Serial0/0/0
S    11.0.0.0/8 [1/0] via 10.0.0.2
S    12.0.0.0/8 [1/0] via 10.0.0.2
S    13.0.0.0/8 [1/0] via 10.0.0.2
C    192.168.0.0/24 is directly connected, FastEthernet0/0
S    192.168.1.0/24 [1/0] via 10.0.0.2
S    192.168.2.0/24 [1/0] via 10.0.0.2
S    192.168.3.0/24 [1/0] via 10.0.0.2
S    192.168.4.0/24 [1/0] via 10.0.0.2
S    192.168.5.0/24 [1/0] via 10.0.0.2
Router#
```

Fig: 3.2 ISO command line interface

Configure routing table

- First and last router configure default but in the middle must configure static
- First and last router IP route 0.0.0.0 0.0.0.0 <Gateway>
- Middle on static IP route<destination network id><subnet mask><Gateway>
- Model an small company default routing
- Model an small company default routing

3.4 Default routing

- Used to route traffic for unknown destination
- It' also use end of the router
- It's help to reduce routing table

➤ Model an small company default routing

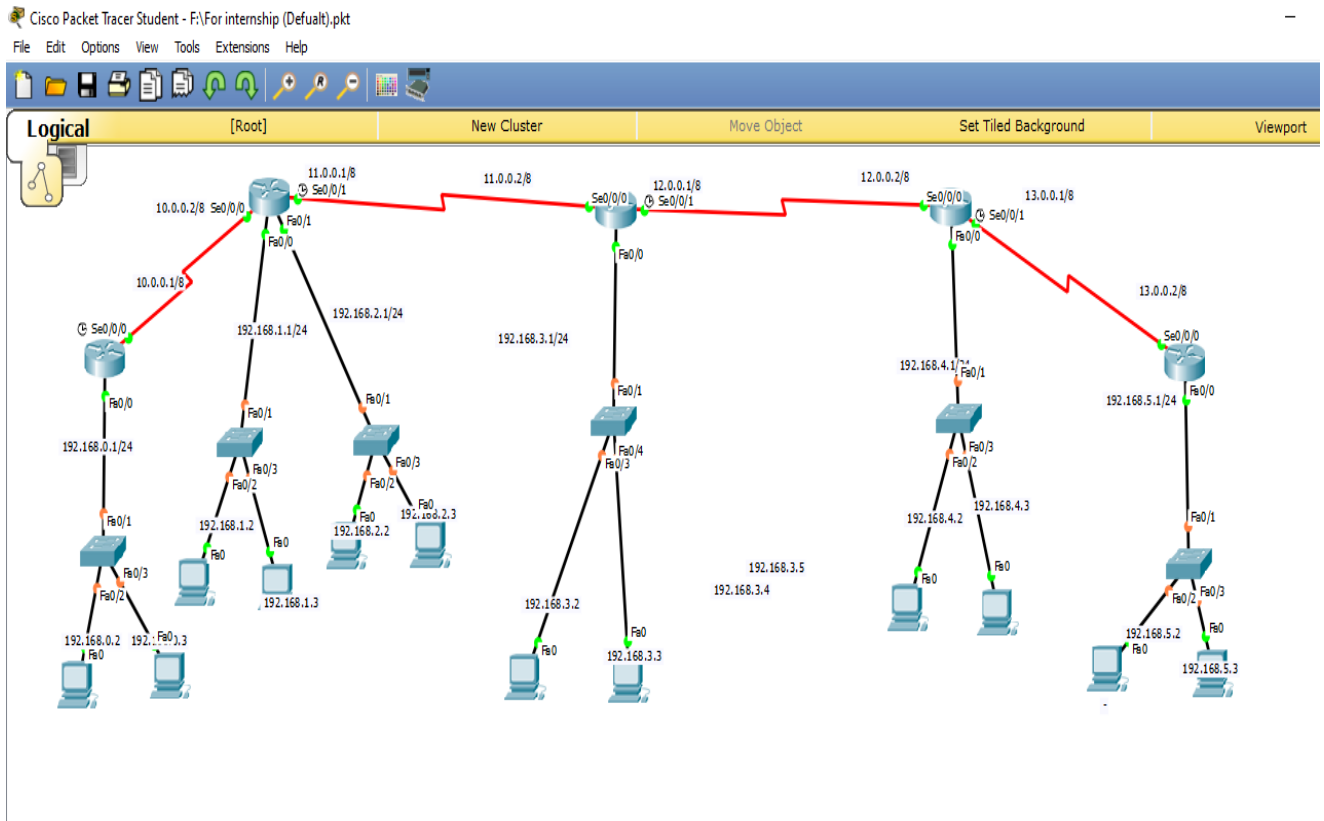


Fig: 3.3 Default routing

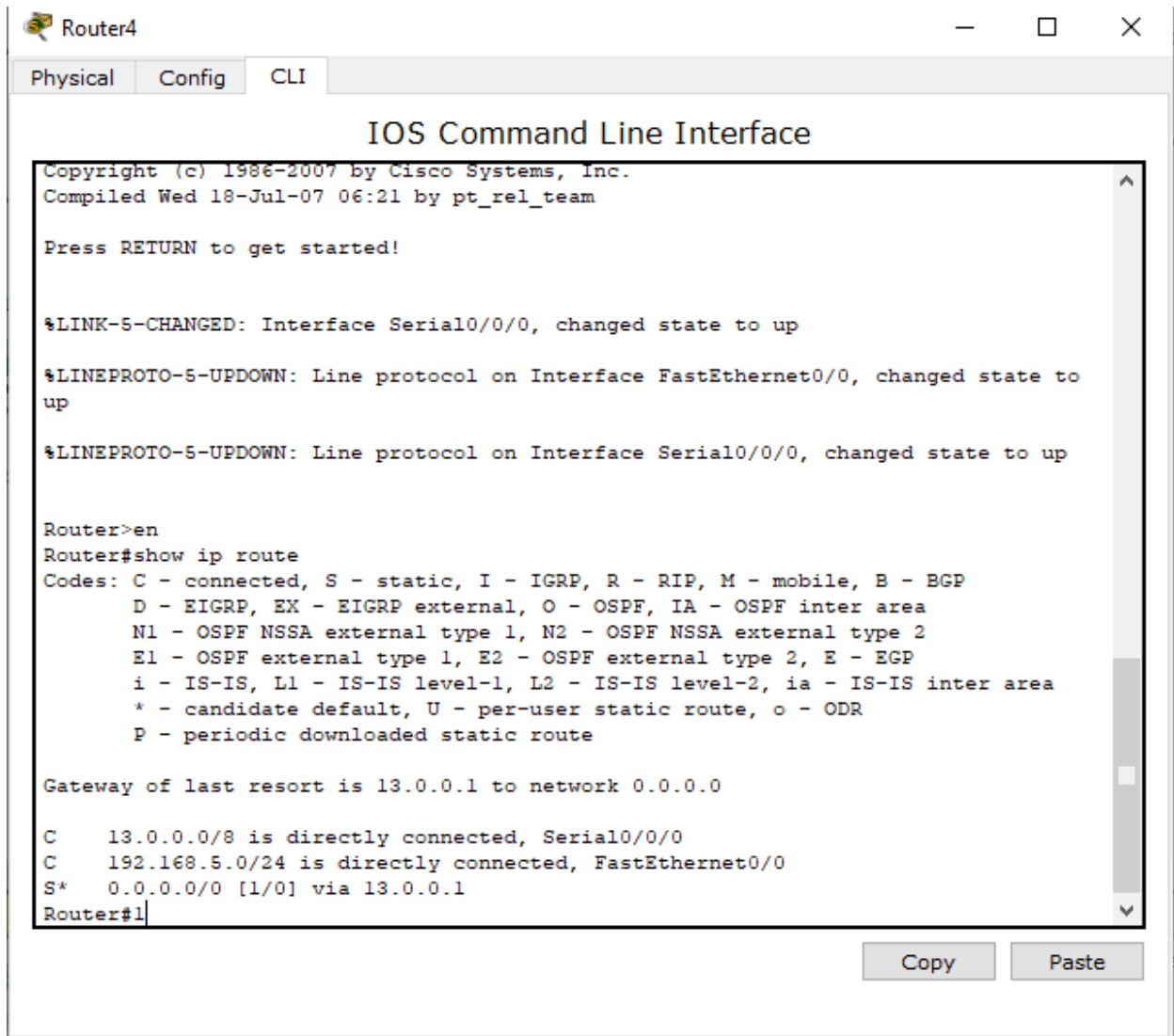


Fig: 3.4 ISO command line interface

3.5 Dynamic routing

Three types of dynamic routing

- RIP routing
- EIGRP routing
- OSPF routing

❖ **Advantage of dynamic routing**

- No need to manual configuration
- Learn's about other network via advertisement
- Automatically select best path
- No need to select destination network
- Administrative work is reduce
- Update the topology dynamically
- Applicable for large organization

❖ **Dynamic routing protocols**

- Distance vector protocol
- Link state protocols
- Hybrid protocols

3.6 RIP routing protocol(Router information protocols)

- It's open standard protocol(Use CISCO and non-CISCO)
- Classful routing protocols(Not carry subnet mask)
- It's use broadcast for updating table
- Metric: Hope count
- Maximum hope count 14
- Max routers 15
- Load balancing equal 4 path
- Administrative distance 120
- Exchange routing table every 30 second(Periodically update)

❖ **Advantage RIP routing**

- Easy to configure
- No design constraint
- Less overhead

❖ **Disadvantage RIP routing**

- Bandwidth utilization very high for broadcast
- Maximum hop count 15
- Use for small organization
- Slow coverage

❖ **Two types of RIP routing**

- Rip version 1 and RIP version 2
- Now days we use RIP version 2
- Configure RIP version 2 for small organization

❖ **Configure**

- Router(config)#Router RIP
- Router(config-if)#network
- Router(config-if)#Version 2
- ISO command line interface

➤ Model RIP version 2

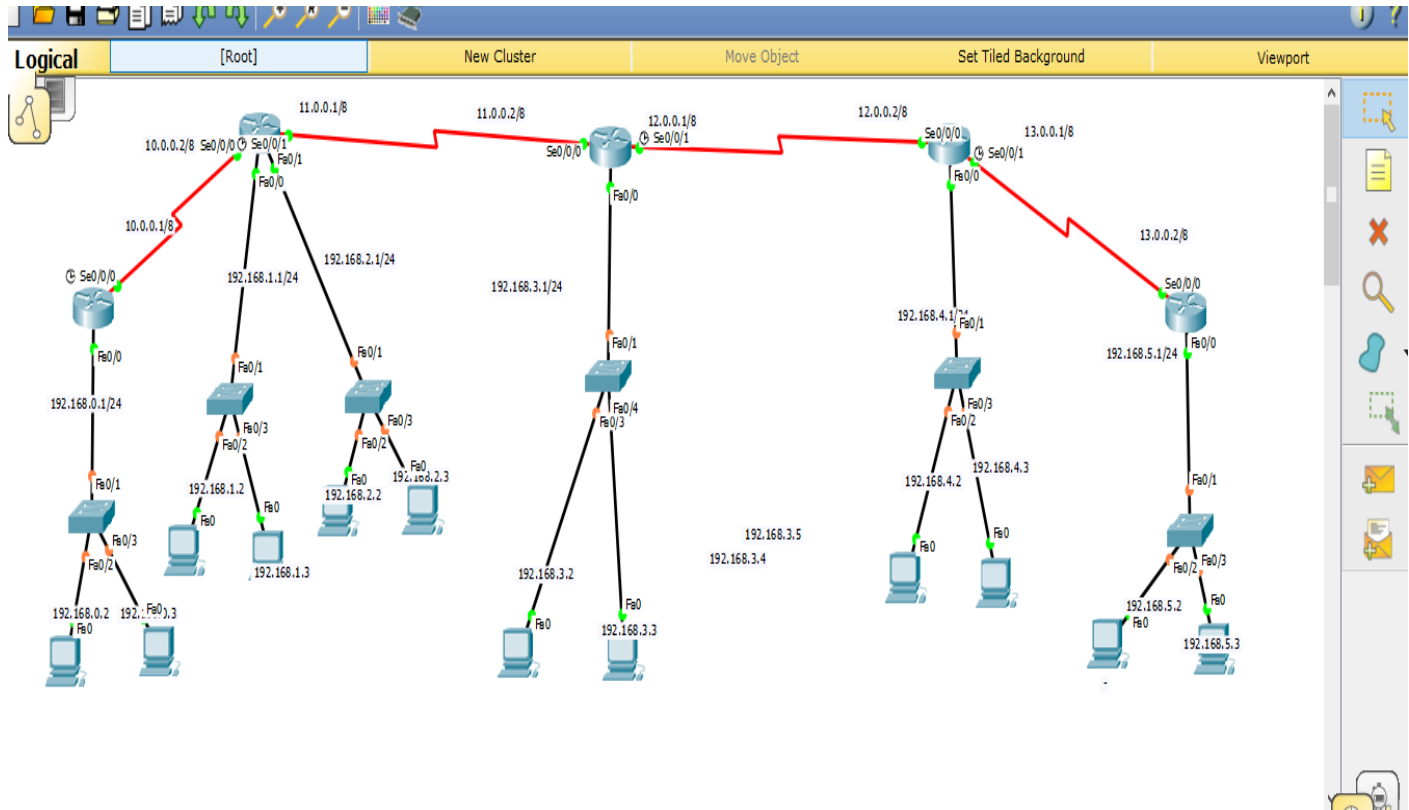


Fig: 3.5 Model RIP version 2

➤ ISO command line interface

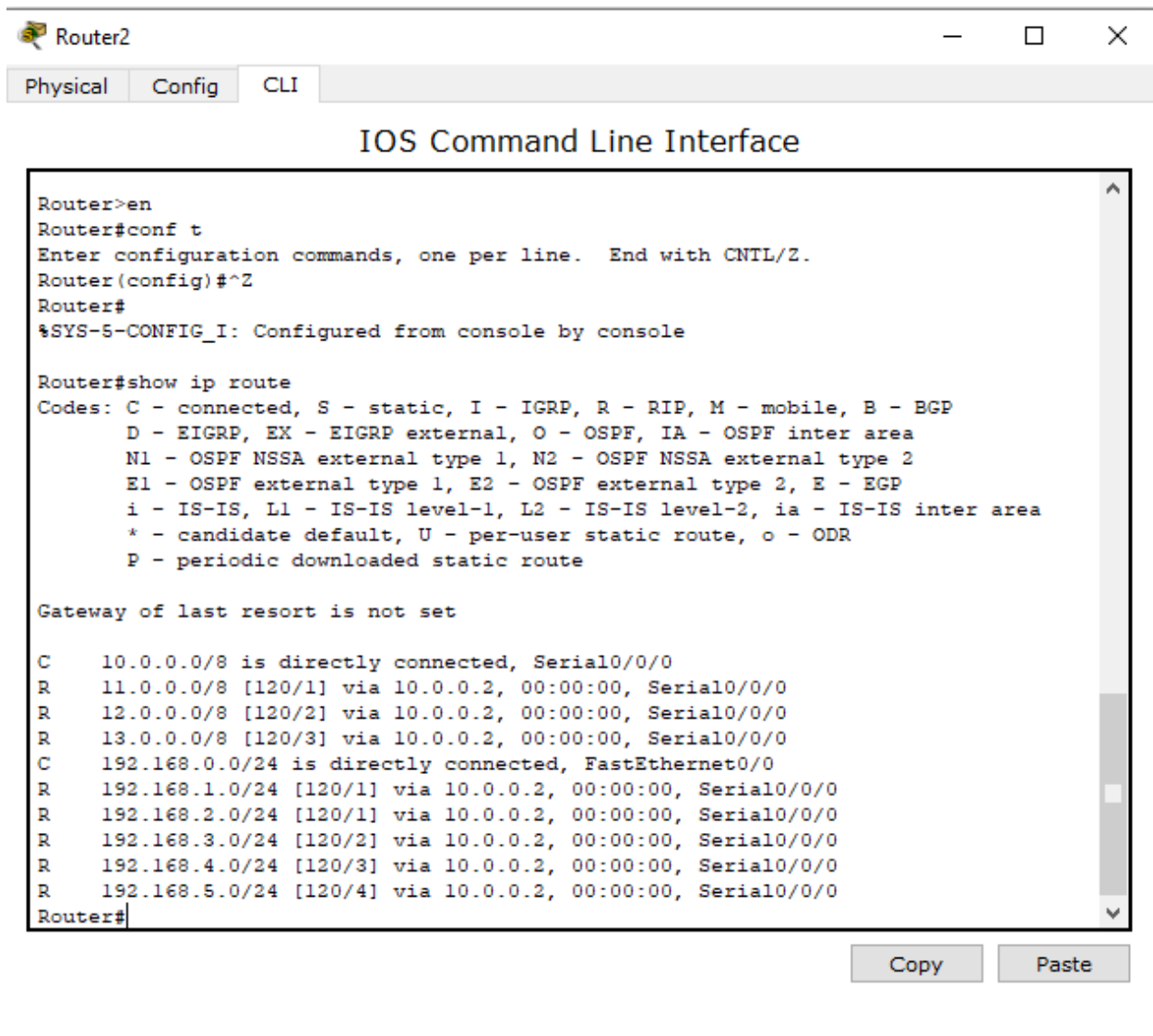


Fig: 3.6 ISO command line interface

3.7 EIGRP (Enhance interior gateway routing protocol)

- Advance Distance vector (Hybrid protocol)
- Standard protocol (Only use cisco)
- Classless routing protocols
- Maximum hop count 255 (Default 100)
- Administrative distance 90
- Easy and flexible network design
- Using multicast (224.0.0.10) and unicast for initial neighbor discovery process.

❖ EIGRP convergence

- Incremental updates
- Periodically Sending hello packet every 5 sec (Dead 15 sec)
- Convergence fast (5 sec)
- Also pre calculate second best route
- Best route = successor
- Second best route = Feasible successor

❖ EIGRP metric calculation

- Bandwidth $K1=1$
- Delay $k3=1$
- Load $k2=0$
- Reliability $k4=0$
- MTU $k5=0$

❖ Configure EIGRP

- Router(config)#Router eigrp (AS Number)
- Router(config-if)#network

➤ Model EIGRP

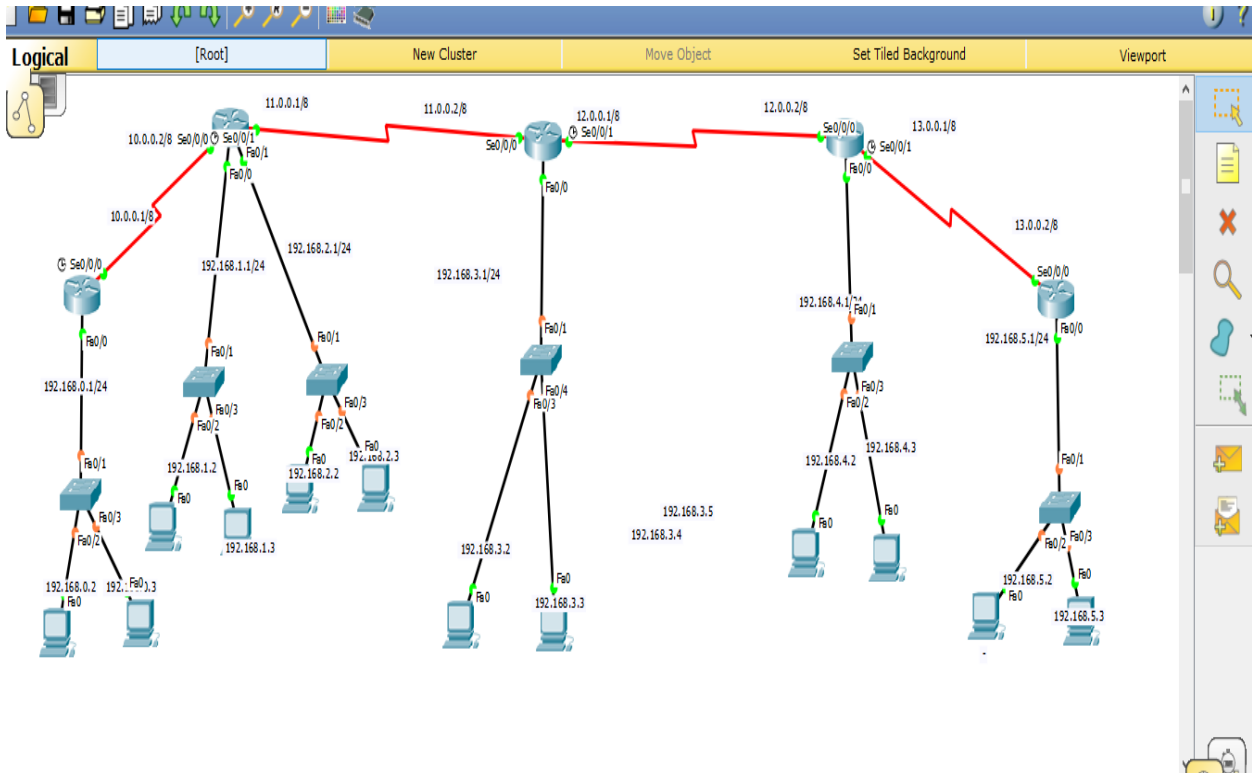


Fig: 3.7 Model EIGRP

```

Router2
Physical Config CLI
IOS Command Line Interface

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#^Z
Router#
%SYS-S-CONFIG_I: Configured from console by console

Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, Serial0/0/0
R    11.0.0.0/8 [120/1] via 10.0.0.2, 00:00:00, Serial0/0/0
R    12.0.0.0/8 [120/2] via 10.0.0.2, 00:00:00, Serial0/0/0
R    13.0.0.0/8 [120/3] via 10.0.0.2, 00:00:00, Serial0/0/0
C    192.168.0.0/24 is directly connected, FastEthernet0/0
R    192.168.1.0/24 [120/1] via 10.0.0.2, 00:00:00, Serial0/0/0
R    192.168.2.0/24 [120/1] via 10.0.0.2, 00:00:00, Serial0/0/0
R    192.168.3.0/24 [120/2] via 10.0.0.2, 00:00:00, Serial0/0/0
R    192.168.4.0/24 [120/3] via 10.0.0.2, 00:00:00, Serial0/0/0
R    192.168.5.0/24 [120/4] via 10.0.0.2, 00:00:00, Serial0/0/0
Router#
Copy Paste

```

Fig: 3.8 ISO command line interface

3.8 OSPF(Open shortest path first)

- It's link state protocols
- Standard protocols
- Max hop count unlimited
- It's use shortest path first algorithm or dijkstra's algorithm
- Metric is cost($10^8/B.W.$)
- It's classless routing protocols
- Support VLSM
- Administrative distance 110
- Support equal cost load balancing

❖ **Basic OSPF process**

- Down
- Initial
- 2 Way
- Extract
- Exchange
- Loading
- Full

❖ **OSPF convergence**

- Incremental updates
- Periodically Sending hello packet every 10 sec (Dead 40 sec)
- Convergence fast(10 sec)

❖ **Advantages**

- Administrator set best path manually
- Must be need destination network Id
- Secure and fast

❖ **Disadvantages**

- Everything configure manually
- It's only use small network
- If any network change effect al hole network

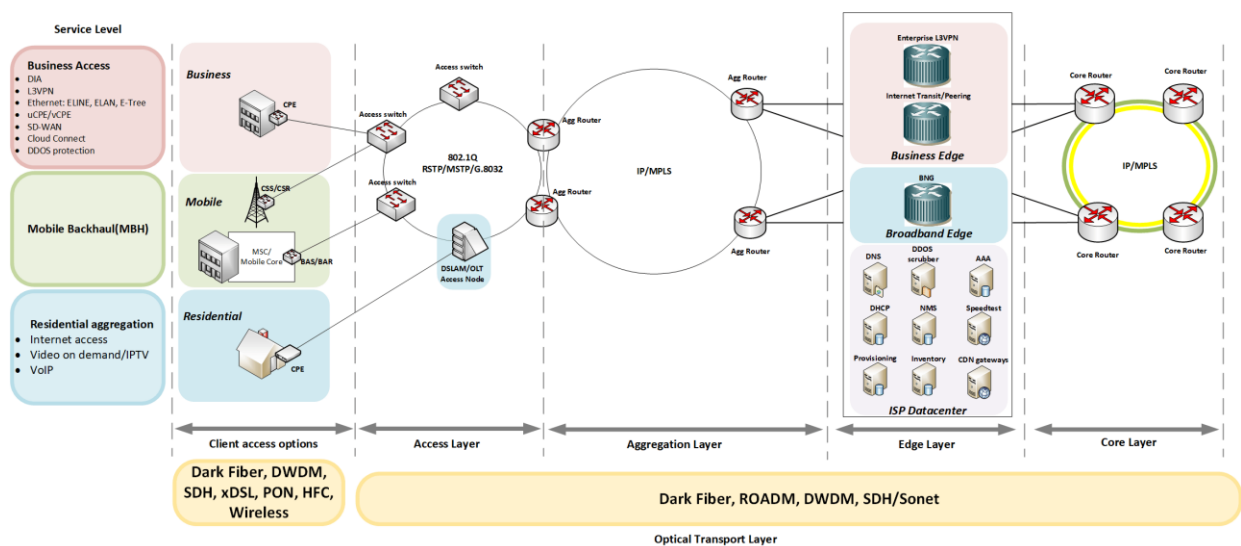
3.9 Typical ISP network architecture major concepts

- Multiple locations, device types, vendors and offered services
- Multiple compliances depending on services
- Hierarchy with Level/POP/Node modularity and unification
- MPLS as a major technology used
- Redundancy and traffic load-balancing

- Quality of service(QoS)
- Full traffic visibility and reporting
- Out of band management
- Automation

Based on major architectural concepts listed before ISPs come up with a network structure consisting of several network building blocks or Layers. The most common of them – Core or Aggregation layers you can find in other areas like Enterprise or Datacenter Networks. Services and devices could be different, but the principle of links aggregation for high speed data exchange over the core would be the same everywhere.

3.10 ISP to simplify the diagram



3.9 ISP to simplify the diagram

The diagram I put here is just a common concept. In real ISP it can be more or less structure layers depending on the ISP size and number of services provided. To simplify the diagram, I also omitted some key aspects like redundancy and port density. The typical ISP I drew provides services for 3 major markets:

- Business customers
- MSP Mobile Backhaul
- Residential customers

It should reflect what modern ISPs offer today. Some of them can also be MSP, but MBH concept will be the same.

Since everything is shifting toward Ethernet today, I assume all services listed are Ethernet based.

CHAPTER 4

PROFESSIONAL GROWTH

4.1 Competencies Earned

At current each work commercial center or any spot is brimming with competencies. That's the reason we should ensure our innovative abilities. Abilities Earned or acquiring result is a declaration of what an understudy is needed to know, fathom or have the ability to do due to a learning method. Computer organizing is the piece of my future life procuring place. Present and decommission of both framework and worker machines at two datacenters. Lead part in Configuring Router. Temporary job periods time I have total more than issue arrangements, so it will help me to future for keeping up with large issue in calm attitude. So it's my enormous accomplishment from this temporary job. In this temporary job Introduce and Configure Routers and Switches; Configure, and Employer Services to additional, VLAN design, OSPF arrange, EIGRP arranges and RIP arranges. In addition, consistent with the taking in outcomes from this, the Internship on location Supervisor will give a presentation concerning legitimate procedures and system mechanical expertise.

4.2 Smart Plan

For improving accomplishment acquire and an association set their top name the executives to make their arrangement extraordinary and more effective and creative from the other Organization. Construct my splendid profession and fruitful life. This work is exceptionally useful for the shrewd arrangement. There are a couple of chances sit tight for myself and assist us with further developing my career. The commercial center is excellent for ISP in the IT area. So I need to develop my vocation in that part and realize another framework to work on my profession.

CHAPTER 5

CONCLUSION AND FUTURE CAREER

5.1 Discussion and Conclusion

My entrance level position program was going on Four month. This transitory occupation is essential to achieve sensible knowledge. This impermanent position is telling me the best way to bear 9 to 10 hours in an office and self-inspiration to deal with work suitably and tackle problems. Daily 7-8 hours and 5 or 6 days in seven days to lock in, so I have this inclinations and bored by this brief position. I have revealed the crucial issues of time are stay aware of without any other individual inspiration and motivated by impermanent work. Time sense is astoundingly typical and huge in each corporate and business life which is stayed aware of by this planning period.

In this temporary position periods shows me numerous significant provisions of my course related points and numerous others significant things which will be required in make future vocation. It helps me to when the work pressures are an excess of then how to keep cool my psyche in working spot. I got the information to and continue to buckle down from my position and plans for next work. I realize how to get my managers psyche and how to get advancement by my work and character. This entry level position makes me genuine and dazzle to buckle down. In the end I simply need to say in each instructive foundation or a work place the significance of temporary position is vital to get genuine practice and ability information.

5.2 Scope for Further Career

These days Computer organizing is an area that is truly demandable for work placement. There are different zone of IT areas. There are immense work environments for in this IT, Where the significance of systems administration is making server farms in many huge organizations and in each significant association on the planet. like CCNA Routing and Switching, mikrotik switch, Linux and so on What's more, it has a few different sorts of systems administration remote systems administration, switch and exchanging, Computer to PC organizing, Network framework designer or director. In each office, university, bank, or any business organization need at least one IT trained professional. So this is another positive news for an organization

engineer. A talented specialist is entirely demandable individual in each spot, so at first to make capable profession, and afterward it will be gone to me a higher spot of my life. So I need to develop my vocation on that part and realized new framework to work on my profession.

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APPENDICES

Appendix A: Internship Reflection

It is simple for me to distinguish the job as a learning experience or the other way around, yet more work will be expected to recognize the positive and negative parts of the experience. Ensure I write to require pretty much all the stage in my report. Understanding our work environment inclinations clarifies what I need more and what I need to stay away from sometime later and my odds of discovering what is next are essentially higher. One approach to assess an entry level position is first to separate it into its key parts. With such sympathetic, merciful and strong coaches, this experience has assisted me with accomplishing my objective of finishing my lone wolf's program for my certification in instruction. Due to the examples I gained from my manager and participating understudy as well as from my educator, as well, I am certain that I will proceed to develop and grow expertly and in my own undertakings. Inside My understudies get instruction temporary job, there were two particular learning encounters that stand apart to me as the most compelling parts of my improvement this semester: local area association with understudy accomplishment and homeroom management. Then think about every component's worth (negative and positive).

Appendix B: Company Details



It is my company logo. The name of my internship company is “Netcom Technologies (Pvt.)Ltd itwas established with an objective of providing leading edge Distribution and Enterprise Solutions. Over the past thirteen years we have grown considerably in terms of Revenue, Portfolio of Projects and the breadth of Enterprise Solutions. This will help professionals develop and establish their careers.

Head Office

Name Netcom Technologies (Pvt.) Ltd
Address Suite # 5-A, House # 2/4, Block-A, Mohammadpur, Mirpur Road
(North of Asad Gate), Dhaka-1207, Bangladesh.
Telephone +88 02 9123342
Phone +8801713432313
E-mail <mailto:sales@netcom-tec.com>
Website www.netcom-tec.com
Type of Organization Information & Communication Technology Company

INTERNSHIP ON ISP SETUP AND CONFIGURATION

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