

Internship on Office Networking

BY

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152-15-5609

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

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DAFFODIL INTERNATIONAL UNIVERSITY

DHAKA, BANGLADESH

December 2018

APPROVAL

This internship program titled “**Office Networking**”, submitted by Tanjin Tamanner to department of Computer Science and Engineering. Daffodil International University has been obtained as satisfactory for evaluation for the partial fruition of the requirements for the degree of B.Sc. in Computer Science and Engineering and sanctioned as to its style and contents. The presentation has been held on December 2018.

BOARD OF EXAMINERS

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Professor and Head

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University

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Internal Examiner

Assistant Professor

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Faculty of Science & Information Technology

Daffodil International University

Dr. Mohammad Shorif Uddin

External Examiner

Professor

Department of Computer Science and Engineering

Jahangirnagar University

DECLARATION

I hereby alleged that, this internship has been done by me under the supervision of **Shaon Bhatta Shuvo, Senior Lecturer, Department of CSE** Daffodil International University. I also alleged that neither this internship nor any part of this internship has been proposed elsewhere for award of any course or diploma.

Supervised by:

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Senior Lecturer
Department of CSE
Daffodil International University

Submitted by:

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ACKNOWLEDGEMENT

At first, I express my gratefulness to almighty Allah, the creator and the one who has power of attorney over all.

I have aching efforts are better than promises in this internship. However, it would not have been feasible without the kind clench and help of my honorable supervised **Shaon Bhatto Shuvo**, Senior Lecturer, Department of CSE, Daffodil International University. His endless condonation, scholastic conduct and valuable exhortation have made it possible to complete my “**Office Networking**” internship.

I would like to express my heartiest thankfulness to **Dr. Syed Akhter Hossain**, Professor and Head, Department of CSE, for his kind help to finish my Internship and also to other faculty member and the staff of CSE department of Daffodil International University.

Finally, I must acknowledge with due respect for getting impetus and patience from my parents.

ABSTRACT

The abstract of this internship is to update the overall networking process of an office. This internship will help both employee & clients from sufferings of others office management. My internship will be user friendly, simple & Smart. **“Office Networking”** is an online office management system to help employee for sharing information and manage their clients. It enables collaborative communication between employee and clients or customer, let's employee share resources, make declaration of important notices and also notify others.

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Chapter 1

Introduction

1.1 Introduction

“**Office Networking**” is an online based office network management system where both employee and clients have an access point. My internship enables an employee to apportion resource, promote notice, notify other members etc. On other hand a senior to junior employee and clients can compile superior person’s resources and get notification. Due to my internship is portable both employee and clients can access “**Office Networking**” in an exact office location.

1.2 Inspiration

The initial inspiration behind computer networking in an office to resolve each and every circumstance that every office faces. A direct selling method that uses a network of people to see products or goods via network management system.

Due to above topic I crave to develop an office network management system to dispense the inhibitions of anterior official network management circumstance.

I decide to develop an office network management system where an employee can communicate with other employee, juniors and clients and vice versa, can submit or send notice and notifications to each other one another.

1.3 Objectives

This proposal is for a data and information communication network to serve the office network management system. The office recently approved much more development of this proposal. Pending proposal acceptance by the HRM of office network management of Technology. The main objective of this network is to provide secure administrative computing service to this corporate Office. It is designed to be functionally and physically diverse from access by employed of the office. Need to integrate and Update the WAN for LAN and WLAN. The network will combine the management process of diverse equipment across the state to provide a collaborative media that helps users combine their skills neglectful of their physical location. A network for this community will enable people to

share information and ideas easily so they can work more efficiently effectively and productively.

1.4 Prospective Outcome

- Methods used by application
- Performance
 - Republication time
 - Should be consistent for each applications
 - Information and Communications time
- Time for the communication
- Processing time between client and server
 - Republication time by many events
- Virtue
 - All components available when needed
 - Maintenance schedule should be mentioned
- Reliability and Validity
 - Errors modulation
 - Stability of H/W resource
- Backup
 - Software backup depend on usage
 - Disk mirroring – two drives, one controller
 - Hardware backup depends on the fetch

1.5 Report Layout

In the chapter (1) I have described objective of internship, Motivation of internship and Expected outcome.

In the chapter (2) I have described the methodology of my internship and IT accommodation via organizational structure.

In the chapter (3) I have described about daily task and activities, Events and Activities with routing protocol.

In the chapter (4) I have described is Competencies Earned, Astute Plan, Reflections.

In the chapter (5) I have described is Conclusion and Future Scope. I discuss the advantage, inhibitions and future vocation and indicted conclusion.

Chapter 2

Organization

2.1 Proem

Ekhlas Group of Industries is proud to be Garments Company in Bangladesh and providing cloths towards market. It has its own various production machines to serve corporate and individual clients. As I look at the growth over the decade since I began, I'm extremely proud of what I achieved. I'm even more excited about my outlook for management process. I have worked with many national projects. I'm using the latest technologies and upgrading the services wherever it is required. My Corporate Network Solution department is capable of providing state-of-art network and telecommunication solutions with a group of highly efficiently and effectively technical experts. Ekhlas Group of Industries has a very strong professional management team certified and associated with its sister concern company. My Corporate Social Responsibility on strengthens the sense of my responsibility on Community, Workstation, Location and Market place.

2.2 Organizational Constitution

- THE COMPANY** : **EKHLAS SPPINNING MILLS LIMITED** was registered as a private limited company with the registrar of Joint stock Company and from in Bangladesh.
- REGISTERED ADDRESS OF COMPANY** : The registered office is location at factory address: Jatramura, Rupgonj, Narangonj, and Dhaka -Bangladesh. And head office: 30/30, BCIC Bhaban(16th Floor),Dilkusha C/A ,Dhaka-1000.
- NATURE OF THE BUSINESS ACTIVITIS** : The Nature and Principal business activities of the Company throughout the year were concentrated on the manufacturing of **YARN** and marketing thereon under the year of review locally.

CORPORATION :
PROFILE

Managing Director	Mr.Mazharul Haque Bhuiyan
Chairman	Mr.Azharul Islam Bhuiyan
Director	Mr.Muzammel Haque Bhuiyan
ED Finance	Syed Ahmed
ED Operation	Engr.Syed Arif Ahmed
Auditors	Rahman Mustafiz Haq & Co
Bankers	Islami Bank Bangladesh(Head Office Complex, Duch Bangla Bank (Local Office),Union Bank (Gulshan Brance)
Legal Adviser (Advocate)	Mohammad abdul Matin
General Manager (factory)	Mahabubur Rhaman

RAW MATERIAL : The Raw Material Local /LC (letter of Credit) purchases -1.MCU5
2.Viscose Fiver (Excel) 3.CIS 4.DCH-32 5. Burkina Faso (Bolas)

FINISHED GOODS : The Finishes Goods or Product **YARN** – 1.30/1A
2.40/1A
3.50/1A
4.53/1A

DEBTORS PARTY : Debtors Party – 1. M/s MB Yarn Trading
2.M/s Akram Enterprise
3. M/s Shamia Enterprise
4. M/s Jaj Bhuiyan Enterprise

CREDITORS PARTY : Creditors Party – 1.AB Trading Corporation
2.Nayim Enterprise
3.Tarek Enterprise
4. Nusrat Enterprise

ACCOUNTING CONVENTION AND BASIS : The Financial Statement have Prepared under the Historical Cost Convention Under **Accrual accounting concept** and in accordance with the International Accounting Standards (IAS) as adopted in Bangladesh.

REPORTING CURRENCY : The financial statement is prepared and presented in **Bangladesh Currency (Taka)**, which is the Company's function currency. All financial information presented has been rounded off to the nearest Taka except where indicated otherwise.

ACCOUNTING SYSTEM : **Step-1: Daily Production Gain/Loss:** The Daily Finished Goods (Production) Value From Less than Daily Raw Cotton Consumption (Use) Value and any Expenditure equator **Daily production Gain or Loss.**

Step-2: Daily & Update Short Fall Decrease /Increase: Previous Short Fall is always Liability amount from less or addition Daily Production Gain or Loss (daily Production Gain is short Fall Decrease & daily production loss is short fall Increase).

2.3 Manufacture and Mart Condition

Ekhlas Group of Industries prides itself as one of the leading garments company in Bangladesh. It's the most experienced and oldest industry in our country. Where the fundamental business ethics is Long Term familiarity with their customers. As they optically magnification gestures over the decade since inception, they are specious proud of what I have achieved and even more exhilarated about my perspective for a promising career to future.

Following are given below:

➤ Office Collaboration

- Internet Solution Architect enables both employee and clients are in same position.
- Security solution Architect qualifies the proper security issue for office legislation system.
- Better communication among employees due to whole prescription section or system of this organized office.
- Product development of recourse of this industry is getting available on major system of Office.

- Open source application between hardware and software are combined together at runtime situation of Office.
- Collaboration with customers demand can be handle in this managerial process.
- Hi speed Wi-Fi for wireless communication medium needed to resolve the employee communications.

➤ Sale Division

- Total Production, Sales & Closing

Ekhal ,Jobada & Azharul Spinning Mills Limited

Jaramura,Rupgonj-Narayangong

Name of Company : Ekhal,Jobada & Azharul (IBBL)

**Schedul of Production, Sale & Closing Stock
Month of November 2018**

Sl.No	Item	Opening Stock		Production		Sale		Closing	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1	53/1A	38,300.00	5,266,250.00	539,900.00		312,000.00	42,900,000.00	266,200.00	36,602,500.00
2	50/1A	3,096,600.00	419,589,300.00	795,700.00		386,000.00	51,838,000.00	3,506,300.00	469,844,200.00
3	43/1A	10,200.00	1,019,638.00	-		-	-	10,200.00	1,019,638.00
4	40/1A	59,200.00	6,719,200.00	115,700.00		59,000.00	6,685,500.00	115,900.00	13,154,650.00
5	40 S	-	-	-		-	-	-	-
6	30/1A-N	33,600.00	2,553,600.00	-		-	-	33,600.00	2,553,600.00
7	30/1A-S	4,500.00	445,500.00	-		-	-	4,500.00	445,500.00
8	30 New Super	240,350.00	22,472,725.00	372,800.00		372,000.00	34,760,000.00	241,150.00	22,547,525.00
9	80/1A	-	-	-		-	-	-	-
10	30Deluxe	2,000.00	215,000.00	123,900.00		117,400.00	12,620,500.00	8,500.00	913,750.00
	Total	3,484,750.00	458,281,213.00	1,948,000.00		1,246,400.00	148,804,000.00	4,186,350.00	547,081,363.00

- Total Production
- Total Sale Quantity
- Total Sale Amount

Ekhlas,Jobeda & Azharul Spinning Limited

Jatramura,Rupgonj-Narayangong

Statement of Sales Amount (IBBL)

Date of November 2018

Date	53/1A	50/1A	43/1 A	40/1A	30 -S	30 -NS	80/ A	30Deluxe	Total
1-Nov-18	1,650,000.00	3,523,000.00		225,000.00		2,797,000.00		430,000.00	8,625,000.00
2-Nov-18	-	-		-		-		-	-
3-Nov-18	-	3,523,000.00		-		1,122,000.00		860,000.00	5,505,000.00
4-Nov-18	1,650,000.00	3,252,000.00		-		2,057,000.00		-	6,959,000.00
5-Nov-18	1,650,000.00	-		-		1,122,000.00		860,000.00	3,632,000.00
6-Nov-18	-	3,216,000.00		1,362,000.00		561,000.00		430,000.00	5,569,000.00
7-Nov-18	3,300,000.00	1,608,000.00		-		1,122,000.00		301,000.00	6,331,000.00
8-Nov-18	1,650,000.00	3,484,000.00		-		1,589,500.00		537,500.00	7,261,000.00
9-Nov-18	-	-		-		-		-	-
##### #	-	1,608,000.00		-		1,122,000.00		860,000.00	3,590,000.00
##### #	1,650,000.00	1,876,000.00		-		1,589,500.00		537,500.00	5,653,000.00
##### #	3,300,000.00	3,216,000.00		-		1,496,000.00		430,000.00	8,442,000.00
##### #	-	-		-		561,000.00		430,000.00	991,000.00
##### #	4,950,000.00	1,608,000.00		-		1,399,500.00		-	7,957,500.00
##### #	1,650,000.00	3,216,000.00		675,000.00		1,122,000.00		860,000.00	7,523,000.00

##### #	-	-		-		-		-	
##### #	3,300,000.0 0	3,484,000.0 0		-		1,496,000.0 0		731,000.00	9,011,000.00
##### #	-	-		-		1,122,000.0 0		-	1,122,000.00
##### #	1,650,000.0 0	5,092,000.0 0		1,362,000.0 0		748,000.00		430,000.00	9,282,000.00
##### #	-	-		-		2,143,500.0 0		537,500.00	2,681,000.00
##### #	1,650,000.0 0	1,608,000.0 0		-		1,496,000.0 0		645,000.00	5,399,000.00
##### #	3,300,000.0 0	1,608,000.0 0		1,362,000.0 0		1,122,000.0 0		752,500.00	8,144,500.00
##### #	-	-		-		-		-	-
##### #	1,650,000.0 0	6,700,000.0 0		-		1,589,500.0 0		537,500.00	10,477,000.0 0
##### #	1,650,000.0 0	-		-		1,589,500.0 0		537,500.00	3,777,000.00
##### #	-	-		-		1,496,000.0 0		645,000.00	2,141,000.00
##### #	1,650,000.0 0	1,608,000.0 0		-		1,492,000.0 0		537,500.00	5,287,500.00
##### #	4,950,000.0 0	1,608,000.0 0		1,362,000.0 0		1,683,000.0 0		430,000.00	10,033,000.0 0
##### #	1,650,000.0 0	-		337,500.00		1,122,000.0 0		301,000.00	3,410,500.00
##### #	-	-		-		-		-	-
1-Dec- 18	-	-		-		-		-	-
Total	##### ##	##### ##		##### ##		##### ##		##### ##	##### ##

➤ Raw Material Division

- Raw Material Purchase & Consumption & Closing

Sl.No	Item	Opening Stock		Adjustment Add/(Less)	Opening Balance	
		Quantity	Value		Quantity	Value
		1	2		4=1	5=(2+3)
1	CIS	-	-		-	-
2	MCU-5	1,402,623.43	108,035,441.89		1,402,623.43	111,134,223.50
3	S-6	-	-		-	-
4	Senegal	-	-		-	-
5	Excel	137,578.96	14,974,039.77		137,578.96	14,974,039.77
6	Viscos	-	-		-	-
7	Pakistan	-	-		-	-
8	DHC-32	-	-		-	-
9	CIS-7/6	-	-		-	-
10	Cameroon	-	-		-	-
11	MCU-5 (30)	-	-		-	-
12	Bolas	1,331,054.78	114,614,849.42		1,331,054.78	114,614,849.42
13	Austalia	-	-		-	-
14	Mali	-	-		-	-
15	USA	-	-		-	-
Total		2,871,257.17	237,624,331.08		2,871,257.17	240,723,112.69

Raw Material Closing Valued Teken Management

	Name	Rate
1	CIS	-
2	MCU-5	79.25
5	Excel	108.84
6	Viscos	-
7	Pakistan	-

7-Nov-18		45,461.57	3,301.86	16,160.43				-			64,923.86
8-Nov-18		49,663.90	3,301.86	20,078.11				-			73,043.87
9-Nov-18		53,866.23	3,301.86	22,036.95				-			79,205.04
10-Nov-18		53,484.20	3,301.86	21,547.24				-			78,333.30
11-Nov-18		52,720.14	3,301.86	22,036.95				-			78,058.95
12-Nov-18		48,517.81	3,301.86	19,098.69				-			70,918.36
13-Nov-18		51,574.05	3,301.86	21,547.24				-			76,423.15
14-Nov-18		50,427.96	4,952.79	19,588.40				-			74,969.15
15-Nov-18		48,135.78	3,301.86	19,098.69				-			70,536.33
16-Nov-18		52,338.11	4,952.79	21,547.24				-			78,838.14
17-Nov-18		50,427.96	3,301.86	20,567.82				-			74,297.64
18-Nov-18		52,720.85	4,402.50	21,547.14				-			78,670.49
19-Nov-18		55,013.06	4,402.50	22,036.85				-			81,452.41
20-Nov-18		48,517.81	3,301.86	19,588.40				-			71,408.07
21-Nov-18		49,663.90	-	20,567.82				-			70,231.72
22-Nov-18		44,697.51	3,852.17	18,608.98				6,615.18			73,773.84
23-Nov-18		46,225.63	1,100.62	15,670.72				2,940.08			65,937.05
24-Nov-18		42,405.33	1,650.93	13,222.17				4,410.12			61,688.55
25-Nov-18		42,787.36	2,751.55	13,222.17				3,675.10			62,436.18
26-Nov-18		43,933.45	2,751.55	13,711.88				2,205.06			62,601.94
27-Nov-18		51,574.05	1,650.93	16,650.14				2,205.06			72,080.18
28-Nov-18		48,517.81	2,751.55	15,181.01				2,940.08			69,390.45
29-Nov-18		48,517.81	3,301.86	16,160.43				3,675.10			71,655.20
30-Nov-18		48,135.78	2,201.24	14,691.30				2,940.08			67,968.40
1-Dec-18		-	-	-				-			-
Total		1,493,849.82	97,955.22	569,532.53				31,605.86			2,192,943.43

➤ FINANCE DIVISION

- Expenditure & Received

EKHLAS ,JOBEDA & AZHARUL SPINNING MILLS LIMITED

Jatramura,Ruggonj-Narayangonj

Statement Of Received & Payment

Month of November 2018

Received			Payment			
Particulars	Note	Taka		Particulars	Note	Taka
Opening Balance	1	2,842,554.04	1001	Directore Remuneration		1,800,000.00
Party Received	2	103,332,500.00	1001	Staff Salary		2,535,000.00
Borrow From Nayim	3	-	1001	Woeker Salary		19,259,000.00
MTR Against (Nayim)	3	8,998,000.00	1001	Worker Bounas		-
Other Received	3	35,200.00	1001	Staff Bounas		-
Bangle Roots	3	-	1002	Gas Bill		39,308,782.00
Lon From Nayim	3	-	1003	Repair & Maintenace Car		93,000.00
Lon From Johirul	3	-	1003	Repair & Maintenance Generator		638,180.00
Lon From Sumon Sir	3	-	1003	Repair & Maintenance Machinarig		-
Lon from Zakir Sir	3	-	1003	Repair & Maintenance Bulding		-
Borrow From MD Sir	3	-	1003	Repair & Maintenance Electical & Electric		-
Short Claim LC	3	-	1003	Repair & Maintenance Coputar		-
Advance Salary Return	3	130,000.00	1006	MTR Principal		17,837,592.00
			1006	MTR Profit		2,162,407.10
			1007	MPI Principal		-
			1007	MPI Profit		-
			1008	HPSM Principal		-
			1008	HPSM Profit		-
			1009	Lon Profit (MD Sir)		-
			1009	Lon Profit (Sumon Sir)		-
			1009	Lon Profit (Johirul)		-

			1009	Lon Profit -1 (Zakir Sir)	43,000.00
			1009	Lon Profit -2 (Zakir Sir)	100,000.00
			1010	Party Payment	4,842,900.00
			1011	VAT Ekhlas Spinning Mills Ltd	960,000.00
			1011	VAT Jobeda Textile Mills Ltd	795,000.00
			1011	VAT Azharul Spinning Mills Ltd	100,000.00
			1012	Bank Charge	3,719.00
			1013	LC Expences	1,075,021.00
			1016	Directore Expe. (DR Sir)	36,770.00
			1016	Managing Drectore Exp (MD Sir)	-
			1016	Chairman Expenses	-
			1016	Director Expens (Zakir Sir)	-
			1017	Patty Cash	275,200.00
			1018	Offday Ring	550,000.00
			1019	Office Rante (BCIC)	190,686.00
			1026	Repair & Maintenance Generator Z	2,650,500.00
			1027	Spinning Goods Purchases	3,844,960.00
			1030	Charity & Donation	90,000.00
			1031	Fees & Charge	32,200.00
			1032	Legal Expenses	1,947,000.00
			1033	Advertisement	-
			1034	Jobeda Tust	50,000.00
			1036	Local Cotton Labour Bill	11,000.00
			1037	Business Promotion	170,000.00
			1038	Godown Guard Salary	60,000.00
			1038	Offday (P.O,SPO,APM,Others	-
			1039	BCIC Office Exp.	-
			1041	Company Rating	-
			1042	Madical & Medicine Purchases	-
			1043	Gas Bill (Qater & Housing)	32,200.00
			1044	DPS	-
			1046	Food Subsidy	

						11,000.00
			1056	Bank Grantry Titas Gas		-
			1056	Humane Resorce Development		-
			1060	Investment		-
			1062	Iftary Staff		-
			1062	Iftary Worker		-
			1065	Personal Tax		147,200.00
			1066	Corporate Tax		-
			1066	Land Tax (Kajna)		-
			1072	Zakat		-
			1073	Licence Renewal		-
			1073	IRC Renewal		-
			1073	Accounts Renewal Free		-
			1081	Audit Fee		36,000.00
			1084	R.R westage Re Circling Plant		100,000.00
			1085	Miscellaneouse		4,900.00
			1086	Firniture & Fixture		-
			1091	Lon Principal (Sumon Sir)		-
			1091	Lon Principal (Johirul Sir)		-
			1091	Lon Principal (Nayim Bhuyan)		-
			1091	Lon Principal (MD Sir)		-
			1091	Borrow Payment		-
			1096	Cash Inceptive		-
			1098	Excis Duty		-
			1099	Repar & Maintenance Sale (Bridge-Scal)		-
			2000	Carring Inward		5,000.00
			5001	Bai Murabaha Principal		-
			5001	Bai Murabaha Profit		-
			6001	C.C Hypo (Agroni Bank)		-
			6002	LTR (Agroni Bank)		-
			7001	MPI Principal (Union Bank)		-
			7002	MPI Profit (Union Bank)		-
			7003	Bai Murabaha Principal (Union Bank)		-
			7004	Bai Murabaha Profit (Union Bank)		-

Dolon Yarn Trading	60,000.00	-	-	-	-	60,000.00
Ananda Yarn Trading		-	-	-	-	-
D.S Trading	182,000.00	-	-	-	-	182,000.00
Dacca Trading	330,000.00	-	-	-	-	330,000.00
Rafi Traders	299,100.00	-	-	-	-	299,100.00
Lipi Enterprise	-	-	-	-	-	-
Johirul Enterprise	8,035,000.00	-	-	-	-	8,035,000.00
Akram Enterprise	17,454,700.00	12,000.00	1,210,000.00	1,210,000.00	-	17,454,700.00
Samia Enterprise	15,804,500.00	21,000.00	2,062,500.00	1,322,500.00	-	16,544,500.00
Mozammel Enterprise	-					-
Azharul Sir	-					-
Bulbul	-	-	-	-	-	-
Salam	-	-	-	-	-	-
Al-Amin	-	-	-	-	-	-
Jakir Sir	-	-	-	-	-	-
Dalim	-	-	-	-	-	-
Shapla	-	-	-	-	-	-
Emran	89,100.00	-	-	-	-	89,100.00
Mazeda	-	-	-	-	-	-
Shahria	7,597,000.00	-	-	-	-	7,597,000.00
Halim Bhuiyan	-	-	-	-	-	-
ARM Trading	-	-	-	-	-	-
Total	2,222,810,745.89	1,246,400.00	148,804,000.00	103,332,500.00	(5,424,727.00)	2,262,857,518.89

- Schedule of Goods Supplied

EKHLAS ,JOBEDA & AZHARUL SPPINING MILLS LIMITED

Jatramura,Rupgonj-Narayangong

Schedule of Goods Supplied

Month of November 2017

Name of Party	Opening	Purchases	Payment	Current	Remark
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	Balance			Balance
	A	B	C	D=(A+B)-C

Speare Parts

Bangl Rots Enterprise-Ring Travelers	16,500.00	-	16,500.00	-
I & I Enterprise -Jed Powder	116.00	31,360.00	31,400.00	76.00
New Milling Eng. Workshop-Plastic Item	-	-	-	-
Al-Nur Eng. Workshop -Plastic Item	255,285.00	46,072.00	100,000.00	201,357.00
Milling Master-Plastic Item	-	-	-	-
Sail Internation Ltd - Ring Travelers/Compressor	-	-	-	-
Alim Eng.Workshop-Plastic Item	110.00	-	-	110.00
Ifat Interprise -Finishing (Saparator,oil,Air Filter)	37,519.00	-	-	37,519.00
Sarker International -Saparator,oil,Air Filter	103,500.00	62,000.00	75,000.00	90,500.00
Dada Enterprise- Auto Conner Cable	83.00	-	-	83.00
(SMF)Haji Sir -Ring Maching Old Flat Beell	36.00	-	-	36.00
Mondle Iron Workshop -Plastic Item	5.00	-	-	5.00
Sajib Enterprise old Cot,Apron	611,760.00	57,900.00	200,000.00	469,660.00
Aktaruzzaman Eng. Workshop -Plastic Item	552,444.00	339,300.00	250,000.00	641,744.00
United Trade Link	-	-	-	-
Jonaet & Mim Enterpaise	-	-	-	-
Ma -yer Dua	-	-	-	-
M/s Saif Islam Enterprise(Mijan)	76.00	-	-	76.00
Forman Enterprise	-	-	-	-
Steps Treesmission & Eng. Ltd	-	-	-	-
Isak Accessories	286,680.00	-	100,000.00	186,680.00
Mala Engineering Works	-	-	-	-
	1,864,114.00	536,632.00	772,900.00	#####

Chemical

S.A International-Mole Cot	-	-	-	-
Mosummy Enterprise	2,981,506.00	-	600,000.00	#####
Waterchem Technology	-	-	-	-
	2,981,506.00	-	600,000.00	#####

Repaire & Maintenance Bulding

Haji - Toksand Supply	48.00	-	-	48.00
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Naeem Enterprise-Palaster Silk& Biti Silk, old Bag	15,544,067.00	447,375.00	-	#####
Arowa Traders -Cement,Iron,Iron Ring	-	-	-	-
Bismilla Enterpaise	-	-	-	-
China Brecks -Alim Sir	100.00	-	-	100.00
Haji Lufor Enterprise	-	-	-	-
Arowa Traders -Cement,Iron,Iron Ring (School)	40.00	-	-	40.00

15,544,255.00	447,375.00	-	#####
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Repaire & Maintenance Generatore

Al-Mamun Supply & Eng./ IT Crecation	-	16,000.00	16,000.00	-
Khaja Azmeri	-	-	-	-
Piyal International Ltd-Generator Exchang Resing	-	-	-	-
S.N Engineering -Resing	-	-	-	-
Desh Bangla Elasticity & Plastic or Gasket	-	-	-	-
Dana Enterprise-Genarator	97,650.00	-	-	97,650.00
Everfist -Genarator	-	-	-	-
Easin Cable Industrial	-	-	-	-
Khan Eng. Workshop	-	-	-	-
Automation Eng. & Controls	15.00	-	-	15.00
Navana Battery	-	-	-	-
Citizen Cables Ltd	-	-	-	-
Head way Eng. International	-	-	-	-
Al-Modina (Cable)	80.00	-	-	80.00
New Mosume Eng.	30,000.00	-	30,000.00	-
Moto Trading & Co	-	-	-	-
Mim Power Engineer	10.00	-	-	10.00
Pacific Chemitrade CO.	-	-	-	-
GEN Air (BD) Ltd	-	-	-	-
M/S Chandni Stone Crusher	-	-	-	-
Powe Tec Engineer / Sikdar Enterprise	-	-	-	-

127,755.00	16,000.00	46,000.00	97,755.00
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Truck Rent

Akram Enterprise -Truck	-	-	-	-
Rubel Enterpaise (westage & Yarn)	-	-	-	-

	-	-	-	-
Sorif Enterpaise	-	-	-	-
	-	-	-	-
	-	-	-	-
Salt				
Akram Enterprise	15,260.00	580,250.00	-	595,510.00
	15,260.00	580,250.00	-	595,510.00
Jaru				-
Nur-Mohammad Enterprise	-	-	-	-
S.M Traders (Flower)	-	-	-	-
	-	-	-	-
Workshop				
Shifat Traders	4,179.00	-	-	4,179.00
Mojib Marin Collection	476,850.00	-	-	476,850.00
	481,029.00	-	-	481,029.00
Repair & Maintenance Electrical & Electronic				
Stridden Engineering	-	-	-	-
F-net Sollution	7,600.00	-	-	7,600.00
Intimate International Ltd	-	-	-	-
	7,600.00	-	-	7,600.00
Fire Defence				
K.S International	15,660.00	-	-	15,660.00
Shama International	82,965.00	-	45,000.00	37,965.00
SAFFTY FIRE TECHNOLOGY	39,940.00	-	20,000.00	19,940.00
	138,565.00	-	65,000.00	73,565.00
Packing Material				
Tarek Enterprise-Paper Cone	1,902,086.00	297,000.00	800,000.00	#####
Nusrat Enterprise-Paper Cone	2,146,000.00	607,800.00	900,000.00	#####
Seum Enterprise-Paper Cone	25.00	-	-	25.00
Shanta Enterprise-Paper Cone	-	-	-	-

Redoy Enterprise -Paper Cone	668,584.00	191,400.00	300,000.00	559,984.00
Mostakim Enterprise- Big Bag	657,604.00	242,250.00	300,000.00	599,854.00
Mostakim Enterprise- Polymer Bag	1,266,577.00	174,300.00	550,000.00	890,877.00
Brothers Corporation -Packing & Polymer Bag	749.00	-	-	749.00
S.R Printing -Stiker	118,398.00	25,920.00	75,000.00	69,318.00
Amass Packing & Accessorise	-	-	-	-
Anamma	-	-	-	-
S & S Bhuyian Enterpaise (Cone)	334,472.00	(26,400.00)	150,000.00	158,072.00

7,094,495.00	#####	#####	#####
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Company ID,Attendance Card,Company Pad

Paintium Printing Prass	-	-	-	-
Abjary Enterprise Printing / STAR AD PRINT	24,642.00	68,509.00	20,000.00	73,151.00
		-	-	-

24,642.00	68,509.00	20,000.00	73,151.00
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Wastage Bag

Akram Enterpaise	-	-	-	-
Aminul Enterprise	356.00	-	-	356.00
Maa-Duya	40.00	-	-	40.00

396.00	-	-	396.00
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Old Bag

Mahabub	9,676.00	-	-	9,676.00
Majeda	2.00	-	-	2.00
Akram	27,040.00	-	-	27,040.00

36,718.00	-	-	36,718.00
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A/C Repair ,Maintenance & Servic

Hemaloy Gas & Refrigerator	52,180.00	-	45,000.00	7,180.00
Vai-Vai Electric & Sanatary	-	-	-	-
Patoary Taders	-	-	-	-

52,180.00	-	45,000.00	7,180.00
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Timber & Sawmill

Bangl Timber- Sawmill	84,847.00	-	45,000.00	39,847.00
New Metali	74.00	-	-	74.00

84,921.00	-	45,000.00	39,921.00
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Electronic Balance Supplier And Support

S.R Instument	-	-	-	-
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-	-	-	-
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Others Purchase

Kargo Control Pvt.ltd-Container Handling/ OITS	50,340.00	-	50,000.00	340.00
OITS ONE Inspection & Testing Services (BD) Ltd.	188,421.14	75,718.74	50,000.00	214,139.88
Kohinur Agency (C& F)	7,766.00	-	-	7,766.00
Scorpio Internation Ltd(C&F)	-	-	-	-
Iqbal Agency	-	-	-	-
Labour Register	-	-	-	-

246,527.14	75,718.74	100,000.00	222,245.88
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Repair & Maintenance of Can

Kader Interpaise	96,513.00	-	45,000.00	51,513.00
				-

96,513.00	-	45,000.00	51,513.00
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Office Equipment & Computer

H.M Solution	-	-	-	-
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-	-	-	-
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Yarn Weight Scale (Qality)

Sanjida Trading Company	29,000.00	-	29,000.00	-
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29,000.00	-	29,000.00	-
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Factory Maintenance

MS Johir Senatary	-	-	-	-
Alim Sir(Adjust Fan)	-	-	-	-
New Aki Glass House	6.00	-	-	6.00
Reaz Enterprise	19.00	-	-	19.00

Walton Master Electronics AC	80.00	-	-	80.00
	105.00	-	-	105.00

Liplat (Advertisement)

Tulir Prose	4.00	-	-	4.00
Too Tal Sing Digital Print	-	-	-	-
	4.00	-	-	4.00

Yarn Weight Scal

Patowary Corporation	-	-	-	-
Mayar-Duda Sanatary	4,620.00	-	-	4,620.00
	4,620.00	-	-	4,620.00

Total	28,830,205.14	#####	#####	#####
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- Schedule of LC Claim (Short Received)

EKHLAS ,JOBEDA & AZHARUL SPPINING MILLS LIMITED

Jatramura,Rupgonj-Narayangong
Schedule of LC Claim (Short Received)
Month of November 2018

Date	Exporter	Local Agent	Claim Qty			Claim Amount		
			Payment Qty	Prot Qty	Claim Qty	USD	Rate	BDT(Amount)
.12	S.B Comodities pte	Dhaka Cotton				2,471.31	78.15	193,132.88
.12	Cargit	Dhaka Cotton				17,614.61	78.15	1,376,581.77
.13	Cargit	Dhaka Cotton				6,338.85	78.15	495,381.13
.13	Cargit	Dhaka Cotton				42,415.17	78.15	3,314,745.54
.13	Cargit	Dhaka Cotton				49,990.00	78.15	3,906,718.50
.13	Cargit	Dhaka Cotton				14,887.92	78.15	1,163,490.95
.14	Srisalasar Balaji	White Pearl				7,519.65	78.15	587,660.65
.14	Cargit	Dhaka Cotton	1,132,768.00	1,059,813.87	72,594.13	68,212.11	78.10	5,327,365.79
.18	Panasing Impex Pvt.Ltd		2,209,286.98	2,182,130.94	27,156.04	24,847.70	83.75	2,081,001.60
A.Ekhlal Total								18,446,078.80

.12	Caleata Overseas	Dhaka Cotton				1,298.50	78.15	
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									101,477.78
.12	Srishskamori Jyothj	Dhaka Cotton				1,221.00		78.15	95,421.15
.12	Commercial Promising	Dhaka Cotton				2,340.00		78.15	182,871.00
.12	Export Ltd Promising	Dhaka Cotton				3,040.84		78.15	237,641.65
.12	Export Ltd Promising	Dhaka Cotton				66.65		78.15	5,208.70
.12	Export Ltd S.B Comodities	Dhaka Cotton				877.77		78.15	68,597.73
.12	Ltd	Dhaka Cotton				1,900.00		78.15	148,485.00
.13	Cargit	Dhaka Cotton				15,080.17		78.15	1,178,515.29
.13	Cargit	Dhaka Cotton				8,831.22		78.15	690,159.84
.13	Cargit Regunath	Dhaka Cotton				51,896.00		78.15	4,055,672.40
.13	Agrotech	Bencot				-		78.15	-
.14	Krishna Traders Promising	Sohel khan				8,501.07		78.15	664,358.62
.14	Export Ltd Promising	Dhaka Cotton				2,716.23		78.15	212,273.37
.14	Export Ltd	Dhaka Cotton				246.48		78.15	19,262.41
.14	Cargit Sir Salasar	Dhaka Cotton	567,336.00	532,450.23	34,885.77	32,618.19		78.15	2,549,111.55
.17	Balaji Olam	MB Yarn Monju (Union	583,771.46	567,036.35	16,735.11	12,969.71		80.45	296,870.17
.18	International Panasing Impex	Bank)	552,953.36	546,481.10	6,472.26	6,083.92		81.90	3,143.05
.18	Pvt.Ltd		1,082,674.66	1,075,919.75	6,754.91	6,586.04		83.75	551,580.85
B.Jobada Total									11,060,650.55
.11	Spinicort Textile	Whitepeari Dhaka				1620.39		78.15	126,633.48
.12	Cargit	Cotton Dhaka				7441.24		78.15	581,532.91
.14	Cargit	Cotton	562,621.31	522,539.21	40,082.10	37,476.76		78.15	2,928,808.79
C.Azharul Total									3,636,975.18
and Total (A+B+C)									33,143,704.52

- Statement of Outstanding Liability Payment

EKHLAS ,JOBEDA & AZHARUL SPPINING MILLS LIMITED

Jatramura,Rupgonj-Narayangong

Schedule of Outstanding Liability Position

2/Dec/18

Name	Principal	Profit	Rent	Pre Rent	Compens
Ekhlas					
Bai Murabaha	-	-	-	-	-
HPSM	790,593,849.00	19,847,551.00	78,114,187.00	8,178,339.00	-
MPI Murabaha	52,211,478.00	5,482,204.00	-	-	2,724,417.00
TR	1,248,946,056.10	137,668,195.75	-	-	27,570,174.00
	2,091,751,383.10	162,997,950.75	78,114,187.00	8,178,339.00	30,294,591.00
Jobeda					
Bai Murabaha	-	-	-	-	-
HPSM	439,173,498.00	11,026,423.00	43,495,114.00	4,611,276.00	-
MPI Murabaha	38,278,661.00	4,013,293.00	-	-	925,351.00
TR	561,696,650.00	62,243,401.00	-	-	16,460,635.00
	1,039,148,809.00	77,283,117.00	43,495,114.00	4,611,276.00	17,385,986.00
Azharul					
Bai Murabaha	-	-	-	-	-
HPSM	87,534,929.00	-	11,046,090.00	902,347.00	-
MPI Murabaha	80,045,599.00	8,404,786.00	-	-	9,471.00
TR	59,093,282.00	6,358,695.00	-	-	2,016,718.00
	226,673,810.00	14,763,481.00	11,046,090.00	902,347.00	2,026,189.00

Grand Total	3,357,574,002.10	255,044,548.75	132,655,391.00	13,691,962.00	49,706,766.00
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2.4 SWOT Analysis of Variance

SWOT, in brief Strength, Weakness, Opportunities and Threat Analysis is an able to be used in an effective way technique for understanding Strengths and Impotencies for identifying both the opportunities open to you and the impendence you face [1].

➤ Strengths

- Things that does well being
- Qualities that dissociate you from your organization
- Internal Resource and cognizant of employees
- Tangible fixed assets such as astute property, capital, proprietary technology etc.

➤ Weaknesses

- Things that the industry occurs lacks
- Things that better off than the industry
- Resources resistance
- Unique selling proposition

➤ Opportunities

- Underserved markets for products
- Competitors in organization's area
- Desiderata for product and accommodations

➤ Threats

- Emerging economies competitors

- Changing regulatory framework environment
- Changing customers posture towards company

2.5 Comparative Adjectives Studies

My study aims to compare and appraise the cognition context intuitive for both employee and customer. The company's customer base includes all consumers and all minuscule-to-medium sized businesses, including start-ups application. The company plans to concentrate on clients, as these are impeccable timing targets for incipient high-speed offerings and hold the greatest magnification potential for the company. Internet Solution feels that these market segments have special pricing and accommodation needs, and make more dedicated, reliable customers.

Chapter 3

Persuasive and Mobility

3.1 Diurnal Persuasive and Mobility

- Learning rudiments of networking and computer applications
 - At this activity I concern to learn network protocols and IP addressing with routing protocol.
- About to ken the Operating System
 - Various types of OS found on market but for networking purpose Linux or Windows server is the right choice for server station to maintain the server.
- Understand the partition of HDD
 - For HDD partition I learn system or logical file formatting and also get knowledge on NTFS or FAT portioning system.
- Installation of computer applications and do work on it
 - In this section various types of application program needs to install on servers client pc to access materials and updates.
- Understanding the rudimentary commands and methodology
 - Command Prompt needs to access OS or whole system like CLI for security issue.
- User and password management
 - To increase security issue need strong password.
- File and directory accessing
 - At this point firstly need to know about NTFS or FAT file management system to access directories.

- Copy, move and directory rename
 - Need actually methods of copy, move and directory however the system is on CLI or GUI mode.
- Simple Switching methodology
 - In this section my actual internship methods occur for routing or switching methodology.
- Connection of LAN cables
 - Get knowledge on CAT 5 or CAT 6 cables with RJ45 jack for better connection of LAN.
- Concept of WLAN and its configuration
 - WLAN stands for wireless local area network, in this section genuinely the name occur of Wi-Fi. During this internship I get much more knowledge on wireless fidelity.
- Administration utilizer backup and recuperate
 - A backup needs for administrative client PC.
- Proper utilization of Microsoft office
 - MS Office needs the fulfill utilization for office management process.
- Bandwidth management
 - Whole network system is covered by bandwidth and bandwidth is the process of transmitting data at a time.

3.2 Instance and Deed

- Monitor and Maintain Computer Systems and Network
 - Each and every time computer system and whole network management system needs to maintain to resolve isolation.

- Setting up utilizer accounts and passwords
 - Password and factor authentication needs to utilize for each employee accounts.
- Troubleshooting servers and routers
 - If problem or spam or fault occurs the system needs to troubleshoot the routing algorithm or protocol.
- Troubleshooting LAN and switches
 - If problem or spam or fault occurs the system needs to troubleshoot the LAN topology and switches.
- Fixing network and computer adjuncts faults
 - Whenever fault occur the network or computer system needs to troubleshoot to resolve the system.
- Day to day admin and monitoring of network use
 - Maintenance and monitoring the admin portal must be needed day to day.
- Client Support over the phone or Physical peregrinate to client Ends
 - At this portion the clients of this industry are communicated by phone or physical peregrinate.

3.3 Internship Persuasive and Mobility

As an internee I always endeavor to provide opportune accommodation to Ekhlas Group of Industries. I have performed innovative tasks during the period of my internship in Ekhlas Group of Industries.

In this internship segment I use so many routing protocols to achieve my goal of internship and manage office networking in an appropriate way with various types OS installation. Mostly I'm hereby to install and configure the RHEL 6 on server pc. In administrative way or

process the Linux OS is much more better than any other OS for server process. RHEL enables a IT expert to work on both GUI and CLI mode for security purpose.

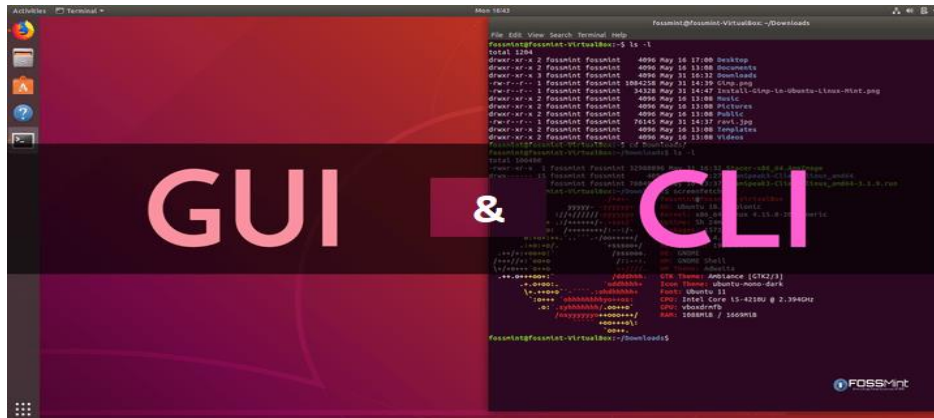


Figure 3.3.1: Linux GUI and CLI

I learn IP configuration via static and dynamic routing protocol. Though static and dynamic has so many difference but static routing is when you statically configure a router to send traffic for particular destinations in preconfigured directions. Dynamic routing is when you utilize a routing protocol such as OSPF, RIP to decipher what paths traffic should take. Due to IP class range and subnet mask the following figure describe about IP class pretty well [3].

Class	Range	Address Range	Supports
Class A	1 - 126	1.0.0.1 to 126.255.255.254	Supports 16 million hosts on each of 127 networks.
Class B	127 - 191	128.1.0.1 to 191.255.255.254	Supports 65,000 hosts on each of 16,000 networks.
Class C	192 - 223	192.0.1.1 to 223.255.254.254	Supports 254 hosts on each of 2 million networks.
Class D	224 - 239	224.0.0.0 to 239.255.255.255	Reserved for <u>multicast</u> groups.
Class E	240 - 255	240.0.0.0 to 254.255.255.254	Reserved for future use, or Research and Development Purposes.

Figure 3.3.2: IP class and Address Range

In IP range or classes there are five period of the range of IP are called class A, class B, class C, class D and class E. Mostly class A, class B and Class C Commonly used on regular networking system, where the class D and E will be used on future term networking process.

➤ RHEL Installation

RHEL stands for Red Hat Enterprise Linux. Though various types of Linux distro are found but in server section the RHEL is much better. In RHEL 6 installation various architecture are found and they are called,

- I386
- AMD or Intel 64
- System Z
- IBM power 64

Installation process of RHEL 6 is following,

First of all need to choose a architecture format of RHEL and need to burn it on bootable process of DVD or pen-drive.

- On first step on boot loader a grub menu will occur and here need to select a OS mode. Likely GUI or CLI



Figure 3.3.3: Install or Upgrade system

- At the next process we have to select or choose the Language, Keyboard type and Installation Media.
- In this the GUI mode will remain the working process of installation.



Figure 3.3.4: Installation Begins

- After that we need to select the storage on HDD



Figure 3.3.5: Choose storage device

- Then need to insert Computer name, Time zone and Password for root user.



Figure 3.3.6: Root Password

- After that need to select the installation type.

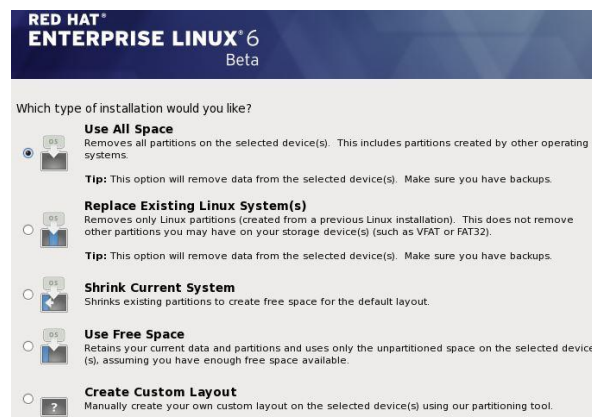


Figure 3.3.7: Choose Installation Type

- At this point the review of partition layout occurs. Modify if needed. Default setup with ext4 and LVM looks good for desktop machine.

Device	Size (MB)	Mount Point/ RAID/Volume	Type	Format
LVM Volume Groups				
vg_rhel6				
lv_root	5672	/	ext4	✓
lv_swap	2016		swap	✓
Hard Drives				
sda (/dev/sda)				
sda1	500	/boot	ext4	✓
sda2	7691	vg_rhel6	physical volume (LVM)	✓

Figure 3.3.8: Partition Format

- Need to configure the boot loader option here on installation process.

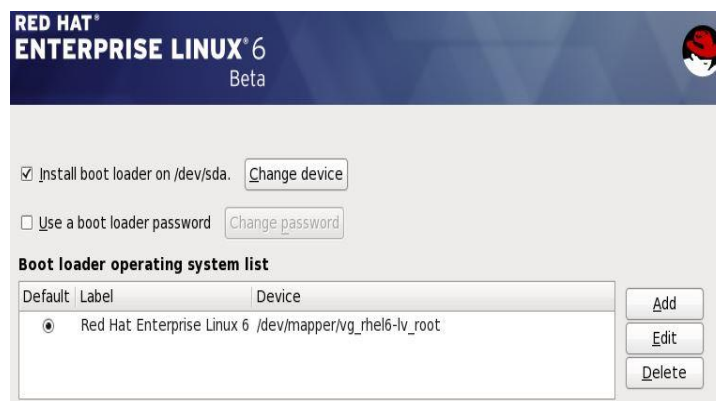


Figure 3.3.9: Boot loader Configuration

- In this case we select Software Development Workstation and enable RHEL 6 to select Customize now.

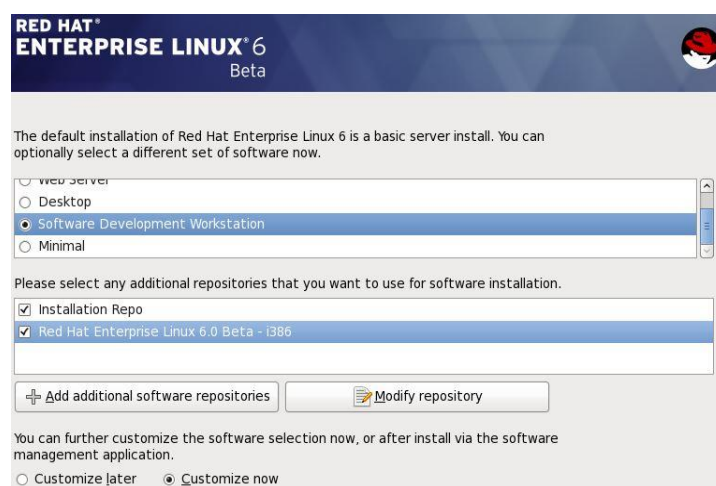


Figure 3.3.10: Software Development Customization

- At package customization section PHP, MYSQL and database needs to configure.

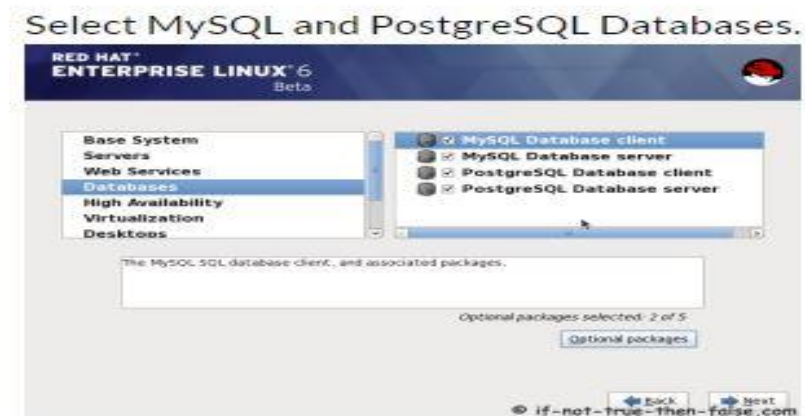


Figure 3.3.11: PHP and MYSQL Configuration

- After all the above process are done the actual installation process begins to run and after a while a installation complete message will display.



Figure 3.3.12: Installation Complete Message

➤ Static Routing Protocol

The process of denominated the routing tables for every router manually by a network administration are called Static Routing. Static Routing is simple to implement plan and is precipitant as it doesn't require any another processing capacity or supplemental bandwidth. But it doesn't route packets around failed links. So, a minuscule network without any object for redundant array of independent disks link might find Static Routing utilizable [4].

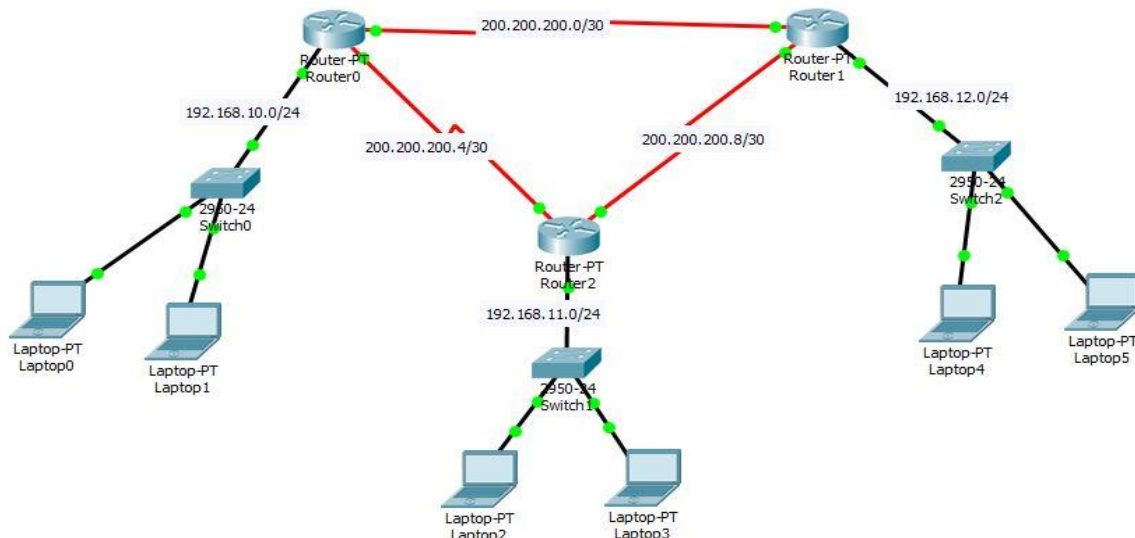


Figure 3.3.13: Static Routing Protocol

Router 0:

```
Router>ena
```

```
Router#conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```
Router(config)#int fa0/0
```

```
Router(config-if)#ip add 192.168.10.1 255.255.255.0
```

```
Router(config-if)#no shut
```

```
Router(config-if)#int se3/0
```

```
Router(config-if)#ip add 200.200.200.1 255.255.255.252
```

```
Router(config-if)#clock rate 64000
```

This command applies only to DCE interfaces

```
Router(config-if)#int se2/0
Router(config-if)#ip add 200.200.200.1 255.255.255.252
Router(config-if)#clock rate 64000
Router(config-if)#no shut
Router(config-if)#
Router(config-if)#int se3/0
Router(config-if)#ip add 200.200.200.5 255.255.255.252
Router(config-if)#no shut
Router(config)#ip dhcp pool Tamanna
Router(dhcp-config)#network 192.168.10.0 255.255.255.0
Router(dhcp-config)#de
Router(dhcp-config)#default-router 192.168.10.1
Router(config-if)#ex
Router(config)#ip route 192.168.12.0 255.255.255.0 se2/0
Router(config)#ip route 192.168.11.0 255.255.255.0 se2/0
Router(config)#ip route 192.168.11.0 255.255.255.0 se3/0
```

Router 1

```
Router>ena
```

```
Router#conf t
```

```
Router(config)#int fa0/0
```

```
Router(config-if)#ip add 192.168.12.1 255.255.255.0
```

```
Router(config-if)#no shut
```

```
Router(config-if)#int se2/0
```



```
Router(config-if)#ip add 200.200.200.2 255.255.255.252
```

```
Router(config-if)#no shut
```

```
Router(config-if)#int se2/0
```

```
Router(config-if)#ip add 200.200.200.10 255.255.255.252
```

```
Router(config-if)#clock rate 64000
```

```
Router(config-if)#no shut
```

```
Router(config-if)#ex
```

```
Router(config)#ip dhcp pool Eklus
```

```
Router(dhcp-config)#network 192.168.12.0 255.255.255.0
```

```
Router(dhcp-config)#default-router 192.168.12.1
```

```
Router(dhcp-config)#ex
```

```
Router(config)#ip route 192.168.10.0 255.255.255.0 se2/0
```

```
Router(config)#ip route 192.168.11.0 255.255.255.0 se2/0
```

```
Router(config)#ip route 192.168.11.0 255.255.255.0 se3/0
```

Router 2

```
Router>ena
```

```
Router#conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```
Router(config)#int fa0/0
```

```
Router(config-if)#ip add 192.168.11.1 255.255.255.0
```

```
Router(config-if)#no shut
```

```
Router(config-if)#int se 3/0
```

```
Router(config-if)#ip add 200.200.200.5 255.255.255.252
```

```
Router(config-if)#clock rate 64000

Router(config-if)#no shut

Router(config-if)#int se 2/0

Router(config-if)#ip add 200.200.200.9 255.255.255.252

Router(config-if)#no shut

Router(config-if)#ex

Router(config)#ip dhcp pool Eklus

Router(dhcp-config)#network 192.168.11.0 255.255.255.0

Router(dhcp-config)#default-router 192.168.11.1

Router(dhcp-config)#ex

Router(config)#ip route 192.168.12.0 255.255.255.0 se2/0

Router(config)#ip route 192.168.10.0 255.255.255.0 se2/0

Router(config)#ip route 192.168.10.0 255.255.255.0 se3/0
```

➤ **OSPF Routing Protocol**

OSPF is an open and standards predicated routing protocol. OSPF is an Intra-domain knowledge routing protocol predicated upon link state routing. In OSPF, the entire network is called an autonomous sensory meridian response system. The autonomous sensory meridian response system is divided into different areas. In OSPF, there are some special types of routers term on its function – Area border routers connect two or more areas, autonomous sensory meridian response system boundary routers connect two or more autonomous sensory meridian response systems, etc [4].

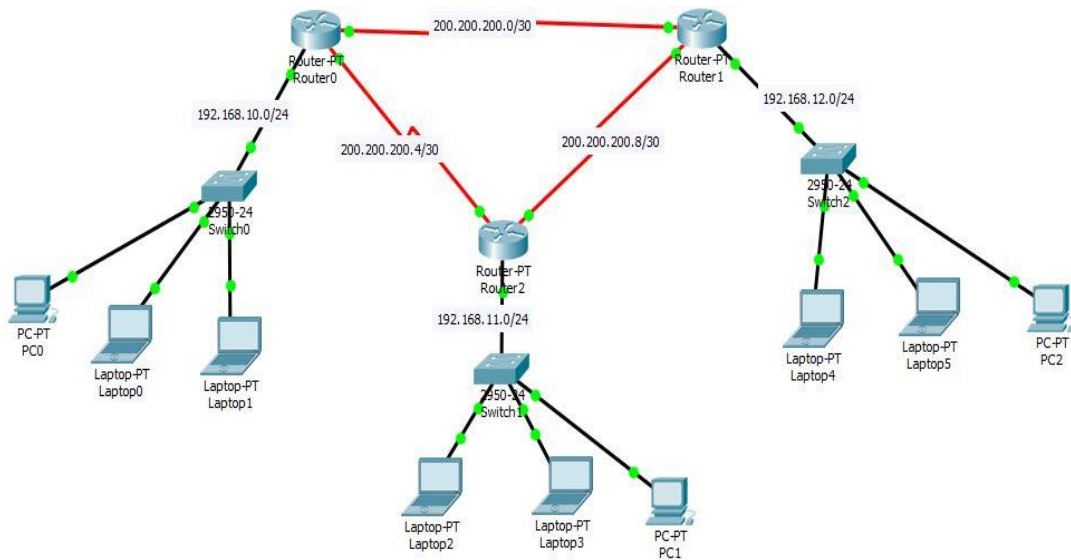


Figure 3.3.14: OSPF Routing Protocol

Router 0:

```
Router>ena
```

```
Router#conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```
Router(config)#int fa0/0
```

```
Router(config-if)#ip add 192.168.10.1 255.255.255.0
```

```
Router(config-if)#no shut
```

```
Router(config-if)#int se3/0
```

```
Router(config-if)#ip add 200.200.200.1 255.255.255.252
```

```
Router(config-if)#clock rate 64000
```

This command applies only to DCE interfaces

```
Router(config-if)#int se2/0
```

```
Router(config-if)#ip add 200.200.200.1 255.255.255.252
```

```
Router(config-if)#clock rate 64000
```

```
Router(config-if)#no shut
```

```
Router(config-if)#
Router(config-if)#int se3/0
Router(config-if)#ip add 200.200.200.5 255.255.255.252
Router(config-if)#no shut
Router(config-if)#ex
Router(config)#router ospf 10
Router(config-router)#network 192.168.10.0 0.0.0.255 area 0
Router(config-router)#network 200.200.200.0 0.0.0.3 area 0
Router(config-router)#network 200.200.200.4 0.0.0.3 area 0
```

Router 1

```
Router>ena
```

```
Router#conf t
```

```
Router(config)#int fa0/0
```

```
Router(config-if)#ip add 192.168.12.1 255.255.255.0
```

```
Router(config-if)#no shut
```

```
Router(config-if)#int se2/0
```

```
Router(config-if)#ip add 200.200.200.2 255.255.255.252
```

```
Router(config-if)#no shut
```

```
Router(config-if)#int se2/0
```

```
Router(config-if)#ip add 200.200.200.10 255.255.255.252
```

```
Router(config-if)#clock rate 64000
```

```
Router(config-if)#no shut
```

```
Router(config-if)#ex
```

```
Router(config)#ip dhcp pool Eklus
Router(dhcp-config)#network 192.168.12.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.12.1
Router(dhcp-config)#ex
Router(config)#router ospf 10
Router(config-router)#network 192.168.12.0 0.0.0.255 area 0
Router(config-router)#network 200.200.200.8 0.0.0.3 area 0
Router(config-router)#network 200.200.200.0 0.0.0.3 area 0
```

Router 2

```
Router>ena
```

```
Router#conf t
```

```
Router(config)#int fa0/0
```

```
Router(config-if)#ip add 192.168.12.1 255.255.255.0
```

```
Router(config-if)#no shut
```

```
Router(config-if)#int se2/0
```

```
Router(config-if)#ip add 200.200.200.2 255.255.255.252
```

```
Router(config-if)#no shut
```

```
Router(config-if)#int se2/0
```

```
Router(config-if)#ip add 200.200.200.10 255.255.255.252
```

```
Router(config-if)#clock rate 64000
```

```
Router(config-if)#no shut
```

```
Router(config-if)#ex
```

```
Router(config)#ip dhcp pool Eklus
```

```

Router(dhcp-config)#network 192.168.12.0 255.255.255.0

Router(dhcp-config)#default-router 192.168.12.1

Router(dhcp-config)#ex

Router(config)#router ospf 10

Router(config-router)#network 192.168.11.0 0.0.0.255 area 0

Router(config-router)#network 200.200.200.8 0.0.0.3 area 0

Router(config-router)#network 200.200.200.4 0.0.0.3 area 0

```

➤ RIP Routing Protocol

Routing Information Protocol, RIP is an open standards compliant predicated on distance vector routing protocol. RIP is an Intra-domain routing protocol used with an autonomous system. RIP uses hop count or distance as its link cost metric. RIP sanctions for convergence criteria around failed links or network topology changes, but instauration is in the order of times [4].

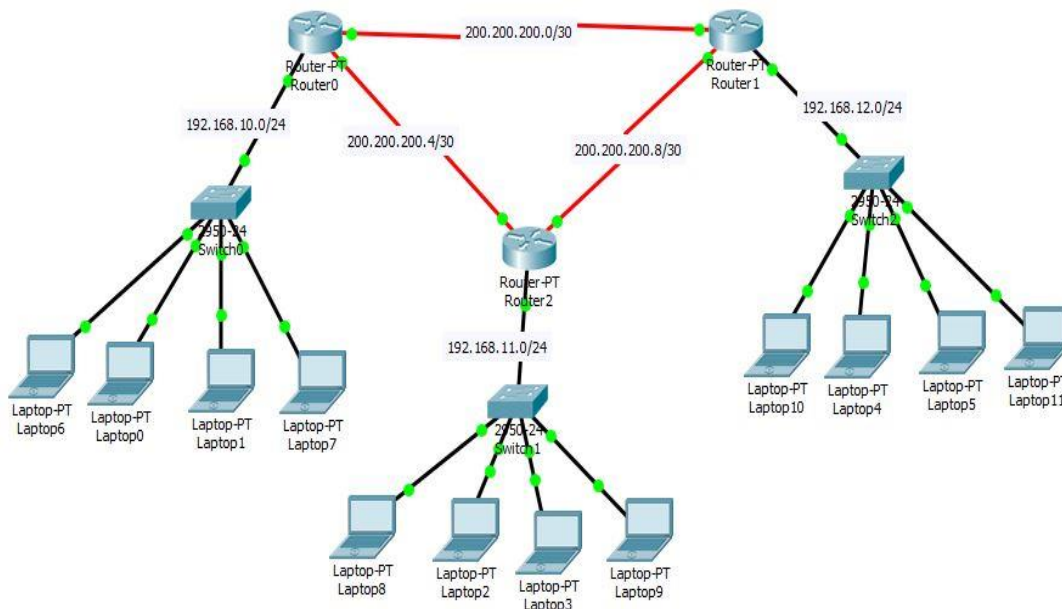


Figure 3.3.15: RIP Routing Protocol

Router 0:

```
Router>ena
```

```
Router#conf t
```

```
Router(config)#int fa0/0
```

```
Router(config-if)#ip add 192.168.10.1 255.255.255.0
```

```
Router(config-if)#no shut
```

```
Router(config-if)#int se3/0
```

```
Router(config-if)#ip add 200.200.200.1 255.255.255.252
```

```
Router(config-if)#clock rate 64000
```

This command applies only to DCE interfaces

```
Router(config-if)#int se2/0
```

```
Router(config-if)#ip add 200.200.200.1 255.255.255.252
```

```
Router(config-if)#clock rate 64000
```

```
Router(config-if)#no shut
```

```
Router(config-if)#
```

```
Router(config-if)#int se3/0
```

```
Router(config-if)#ip add 200.200.200.5 255.255.255.252
```

```
Router(config-if)#no shut
```

```
Router(config-if)#ex
```

```
Router(config)#router rip
```

```
Router(config-router)#version 2
```

```
Router(config-router)#Network 192.168.10.0
```

```
Router(config-router)#Network 200.200.200.0
```

```
Router(config-router)#Network 200.200.200.4

Router 1

Router>ena

Router#conf t

Router(config)#int fa0/0

Router(config-if)#ip add 192.168.12.1 255.255.255.0

Router(config-if)#no shut

Router(config-if)#int se2/0

Router(config-if)#ip add 200.200.200.2 255.255.255.252

Router(config-if)#no shut

Router(config-if)#int se2/0

Router(config-if)#ip add 200.200.200.10 255.255.255.252

Router(config-if)#clock rate 64000

Router(config-if)#no shut

Router(config-if)#ex

Router(config)#ip dhcp pool Eklus

Router(dhcp-config)#network 192.168.12.0 255.255.255.0

Router(dhcp-config)#default-router 192.168.12.1

Router(dhcp-config)#ex

Router(config)#router rip

Router(config-router)#version 2

Router(config-router)#Network 192.168.12.0

Router(config-router)#Network 200.200.200.0

Router(config-router)#Network 200.200.200.8
```


Router 2

Router>ena

Router#conf t

Router(config)#int fa0/0

Router(config-if)#ip add 192.168.12.1 255.255.255.0

Router(config-if)#no shut

Router(config-if)#int se2/0

Router(config-if)#ip add 200.200.200.2 255.255.255.252

Router(config-if)#no shut

Router(config-if)#int se2/0

Router(config-if)#ip add 200.200.200.10 255.255.255.252

Router(config-if)#clock rate 64000

Router(config-if)#no shut

Router(config-if)#ex

Router(config)#ip dhcp pool Eklus

Router(dhcp-config)#network 192.168.12.0 255.255.255.0

Router(dhcp-config)#default-router 192.168.12.1

Router(dhcp-config)#ex

Router(config)#router rip

Router(config-router)#version 2

Router(config-router)#Network 192.168.11.0

Router(config-router)#Network 200.200.200.4

Router(config-router)#Network 200.200.200.8

➤ IP Configuration by RHEL

In this portion the IP router package or tools manage network and traffic control portion. The interior utility of IP routing is called simply IP configuration is following,

- First of all commands respects a earmarked of action on IP objects.

```
# ip link help
```

```
root@dev2:~# ip link help
Usage: ip link add [link DEV] [ name ] NAME
      [ txqueuelen PACKETS ]
      [ address LLADDR ]
      [ broadcast LLADDR ]
      [ mtu MTU ]
      type TYPE [ ARGS ]
ip link delete DEV type TYPE [ ARGS ]

ip link set { dev DEVICE | group DEVGROUP } [ { up | down } ]
      [ arp { on | off } ]
      [ dynamic { on | off } ]
      [ multicast { on | off } ]
      [ allmulticast { on | off } ]
      [ promisc { on | off } ]
      [ trailers { on | off } ]
      [ txqueuelen PACKETS ]
      [ name NEWNAME ]
http://www.tecmint.com
```

Figure 3.3.16: IP Configuration by RHEL

- Need to disable the Networking interface for maintenance.

```
# ip link show
# ip link set eth1 down
# ip link show
```

```
root@dev2:~# ip link show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue state UNKNOWN mode DEFAULT
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP mode
    DEFAULT qlen 1000
    link/ether 08:00:27:92:78:6e brd ff:ff:ff:ff:ff:ff
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP mode
    DEFAULT qlen 1000
    link/ether 08:00:27:fd:a6:b8 brd ff:ff:ff:ff:ff:ff
root@dev2:~# ip link set eth1 down
root@dev2:~# ip link show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue state UNKNOWN mode DEFAULT
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP mode
    DEFAULT qlen 1000
    link/ether 08:00:27:92:78:6e brd ff:ff:ff:ff:ff:ff
3: eth1: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast state DOWN mode DEFAULT
    qlen 1000
    link/ether 08:00:27:fd:a6:b8 brd ff:ff:ff:ff:ff:ff
root@dev2:~#
http://www.tecmint.com
```

Figure 3.3.17: Client PC Maintenance by RHEL

- After that I need to show the routing configured table. In this portion need to enter three commands for integrated network service. Each section the routing table will show the Destination, Gateway, Genmask, Flag and user or irtt interface.

```
# ip route show
# route -n
# netstat -rn
```

```
root@dev2:~# ip route show
10.0.0.0/24 dev eth1 proto kernel scope link src 10.0.0.15
192.168.0.0/24 dev eth0 proto kernel scope link src 192.168.0.15
root@dev2:~# route -n
Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref Use Iface
10.0.0.0 0.0.0.0 255.255.255.0 U 0 0 0 eth1
192.168.0.0 0.0.0.0 255.255.255.0 U 0 0 0 eth0
root@dev2:~# netstat -rn
Kernel IP routing table
Destination Gateway Genmask Flags MSS Window irtt Iface
10.0.0.0 0.0.0.0 255.255.255.0 U 0 0 0 eth1
192.168.0.0 0.0.0.0 255.255.255.0 U 0 0 0 eth0
```

Figure 3.3.18: Show Up the Routing Table

- In this portion I just need to use the RHEL server to router among private network. Ping command used mostly on dev2 and dev4. Each NIC along with the analogous IPV4 address.

```
Client 1: CentOS 7 [enp0s3: 192.168.0.17/24] - dev1
Router: Debian Wheezy 7.7 [eth0: 192.168.0.15/24, eth1: 10.0.0.15/24] - dev2
Client 2: openSUSE 13.2 [enp0s3: 10.0.0.18/24] - dev4
```

Let's view the routing table in dev1 (CentOS box):

```
# ip route show
```

and then modify it in order to use its enp0s3 NIC and the connection to 192.168.0.15 to access hosts in the 10.0.0.0/24 network:

```
# ip route add 10.0.0.0/24 via 192.168.0.15 dev enp0s3
```

Which essentially reads, "Add a route to the 10.0.0.0/24 network through the enp0s3 network interface using 192.168.0.15 as gateway".

Figure 3.3.19: IPV4 Addressing

- Another scenario analysis where a RHEL can be used as router is when you need to share your Internet connection with a private LAN. Mostly RHEL server needs to route between private network and internet.

```
Router: Debian Wheezy 7.7 [eth0: Public IP, eth1: 10.0.0.15/24] - dev2
Client: openSUSE 13.2 [enp0s3: 10.0.0.18/24] - dev4
```

In addition to set up packet forwarding and the static routing table in the client as in the previous example, we need to add a few iptables rules in the router:

```
# iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
# iptables -A FORWARD -i eth0 -o eth1 -m state --state RELATED,ESTABLISHED -j ACCEPT
# iptables -A FORWARD -i eth1 -o eth0 -j ACCEPT
```

The first command adds a rule to the POSTROUTING chain in the nat (Network Address Translation) table, indicating that the eth0 NIC should be used for outgoing packages.

```
inter eth0
ip addr 192.168.0.15
inter eth1
ip addr 10.0.0.15
exit
exit
write
```

```
root@dev2:~# telnet localhost zebra
Trying ::1...
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.

Hello, this is Quagga (version 0.99.22.4).
Copyright 1996-2005 Kunihiro Ishiguro, et al.

User Access Verification

Password:
DebianRouter> enable
DebianRouter# configure terminal
DebianRouter(config)# inter eth0
DebianRouter(config-if)# ip addr 192.168.0.15/24
DebianRouter(config-if)# inter eth1
DebianRouter(config-if)# ip addr 10.0.0.15/24
DebianRouter(config-if)# exit
DebianRouter(config)# exit
DebianRouter# write
Configuration saved to /etc/quagga/zebra.conf
```

Figure 3.3.20: LAN Configuration by RHEL

➤ Domain Name System

Domain Name System, in short DNS is a hierarchical decentralized organization naming system for computers or other resources connected to the Internet or private network.

For a wanted domain name, the purpose of this illustration, we'll use adomain.com. Let's break down what a domain name is first. And to do that, we'll need to break down and prescribe what a URL or Uniform Resource Locator is. URL is an acronym and abbreviations for Uniform Resource Locator.

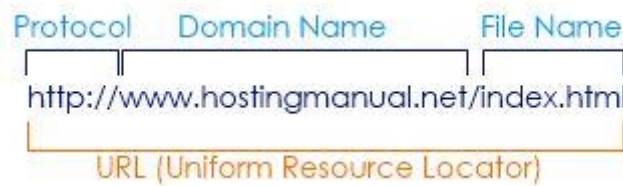


Figure 3.3.21: DNS with URL Address

➤ Protocol

The communication method with computer speaks to another. As I'm using the written English language in this website as my communication method for official newcomers, the computer systems that make up the internet have known as protocols. For example, HTTP stands for Hypertext Transfer Protocol, which is one of the manners used for computer communication on the World Wide Web.

Widely-used internet protocols familiar with the following are:

- Usenet: used for newsgroups
- FTP: File Transfer Protocol, used for uploading and download files.
- Telnet: used to allow you to directly connect to appointed computer
- E-mail: uses POP or Post Office Protocol to receive mail and uses SMTP or Standard Mail Transport Protocol to send mail.

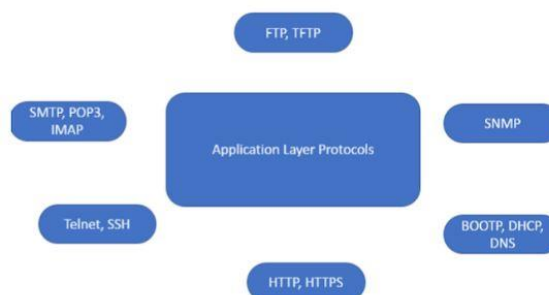


Figure 3.3.22: Protocols

3.4 Router and its Properties

A router is a device that forwards data packets by the help of networks manner. Via router we can use a broadband line to use internet. Most in all probability the matter of Wi-Fi can be found by the router. All Switches can be configured by the main router [7].

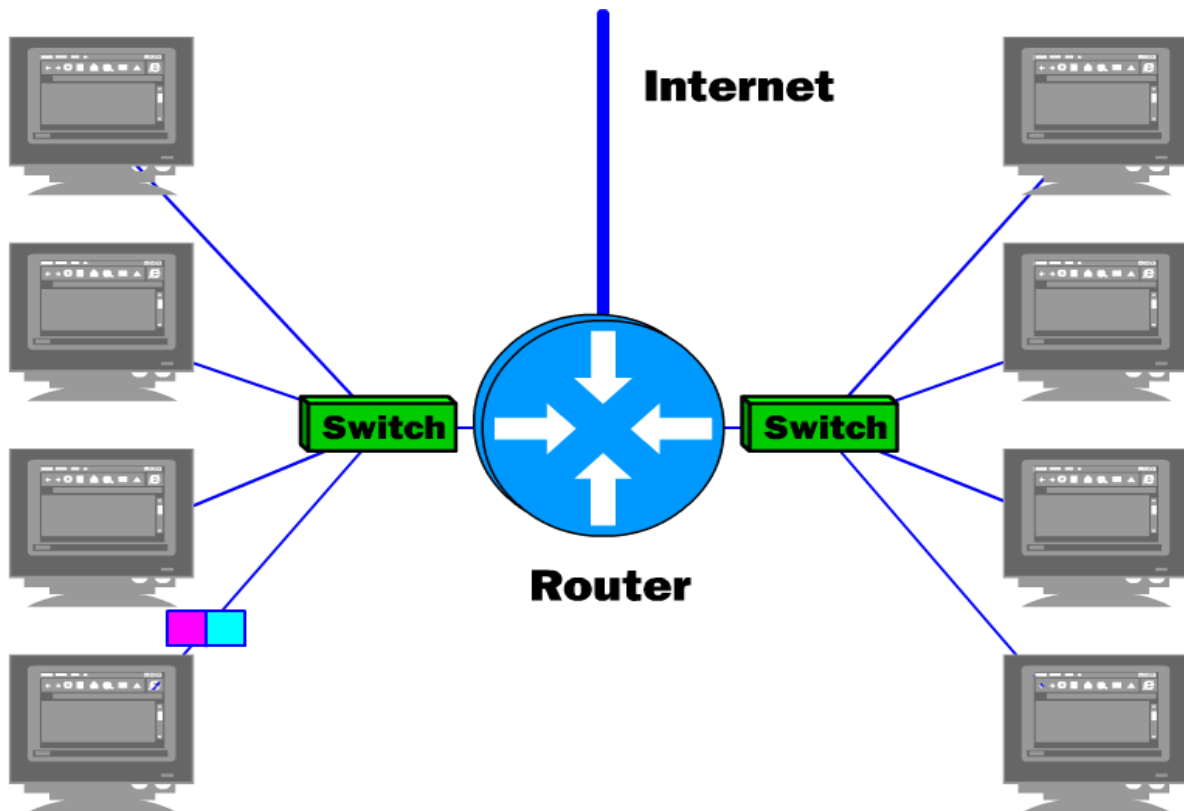


Figure 3.4.1: Methodology of Router

A router is a deftness that analyzes the contents of data packets transmitted within a network or to another network. Routers determine whether the source and destination are on the same network or whether data must be transferred from one network type to another, which requires to express or show the most important facts about something that the data packet with routing protocol header information for the nascent network type.

3.5 Switch and its properties

A switch, on behalf of networking is a high-speed device that receives incoming data or packets and redirects them to their destination source on a LAN. Using a switch so many nodes can be connected by one station and switch can be extended to large LAN area [6].

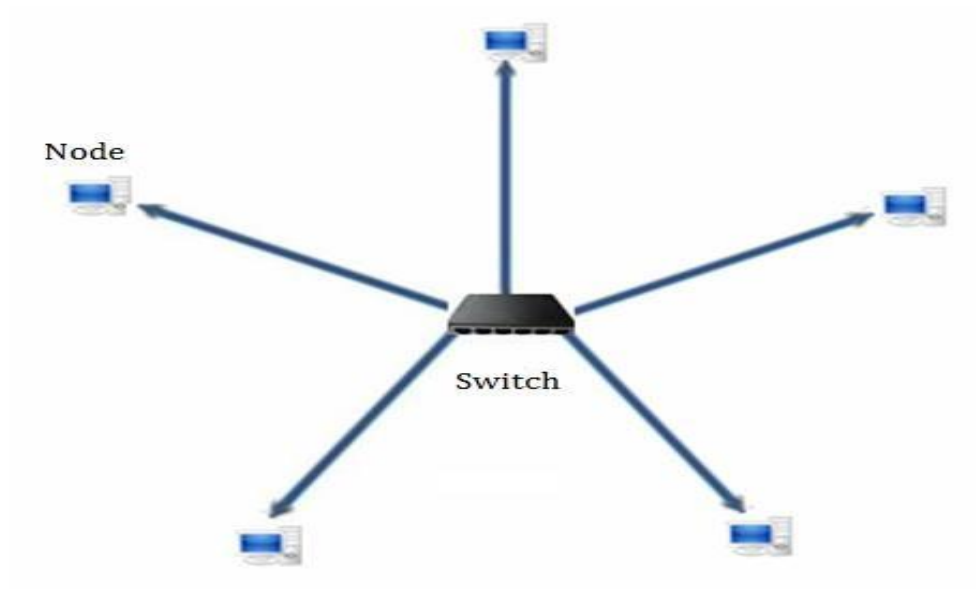


Figure 3.5.1: Methodology of Switch

A switch in an Ethernet- predicated upon LAN reads incoming transmission control protocol data packets or frames containing destination information as they pass into one or more input ports.

Switches are likely to hubs, only more perspicacious. A hub simply connects all the nodes on the network communication are essentially the same in a haphazardly ambiguous divination intimately distinctions reinforce with any contrivance assiduous to any time. On the other hand, a switch engenders an electronic tunnel vision between source and destination ports for a split second that no other traffic can enter. This results in communication without friction.

Switches are homomorphism to routers as well but a router has the supplemental competency assessment to forward packets between different networks, where as a switch is constrained optimization to node-to-node communication on the same network.

3.6 Switch vs. Router

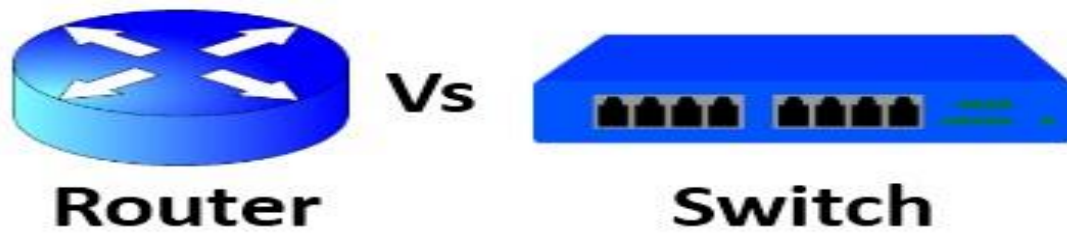


Figure 3.6.1: Router vs. Switch

- While routers connect another networks and link deftness from one to schedules in another, switches are confined as they connect computers within a single networking way.
- Routers are layered in the OSI models, while switches operate at the data link layer unless they are multilayer switches. More gravely, routers are genuinely interested to keenly intellective and sophisticated than switches.
- Where router operations revolve around IP Addresses, switches work with media access control addresses. They operate within the occlusion of a single network.
- While routers can work both wired and wireless network situations vacant, switches are restricted to wired network connections.

Routers have their own inbuilt OS and require configuration afore use. Switches are customarily void to go when acquired and do not require any configuration.

3.7 MS Office and its Properties



Figure 3.7.1: Microsoft Office Applications

In organizes office need MS Office for its application program management. It enables a user on a structured office management system to work upon Ms Word or excel or PowerPoint to do their official work on management demand. Each of the applications in Microsoft Office categorical cognizance or office domain such as [5]:

➤ Microsoft Word

- MS Word enables a user to work on text document mode.

➤ Microsoft Excel

- It enables a user for mathematical calculation on official table or chart.

➤ Microsoft PowerPoint

- It enables professional multimedia presentations.

➤ Microsoft Access

- For structured office management system it enables Database management system.

➤ Microsoft Publisher

- Marketing or publishing are enabled here.

➤ Microsoft Outlook

- It enables user a mailing system and cloud memory space with outlook account a user can download needed application from app store by Microsoft.

➤ OneDrive

- On OneDrive apps by Microsoft a user can save files on cloud space.

Chapter 4

Emulation and Intention

4.1 Emulation Earned

Competencies of compliance earned or learning outcome is a verbalization of what a learner is expected to ken a result of a cognition process. Install and decommission of both network and MS office management at two datacenters. Lead role in advanced OS software implementations. The Student Sodality office funds many students Intern Learning Outcomes: Amassing and organizing information into an Internship Project Description: Install & Configure software and upgrades; Install, configure & test network Employer Accommodations. Furthermore, consistent with the cognition outcomes, the Internship On-Site Supervisor will provide an orientation concerning organizational policies and procedures.

4.2 Organizational Intention

Every company should have a keenly intellectual plan to gain the prosperity. Fundamentally, some prevalent things of amalgamation engender an astute plan.

4.3 Reflexion

After make a perspicacious plan it requires to be occurring reflection correctly and need to analysis that how much reflection can able to occurring the company. If any organization can felicitously work with their keenly intellectual plan, they can prosperously reflect their plan.

Chapter 5

Conclusion and Future Career

5.1 Avail

- Saves both employee and customers time
 - Due to access of Ethernet connection employee and customer saves their valuable time to choose and buy productivity.
- Access from anywhere and anytime via internet
 - If a employee out of office but a urgent file or format needed, he or she can get the file or format easily by the using of internet.
- Actual office management system
 - Actual office management occurs due to topper level employee can easily access the system by hand used device.
- Simplify providing feedback on work that assign
 - For the use of internet a feedback movement can be sent among employee or clients.
- Brings experience on computer applications or MS office
 - Get or can be gather huge application program acknowledgement, likely MS Office.

5.2 Abridgement

- Error detection straits occur
 - Though it's a well network management system but sometimes error or faults occur. That's why it must be maintain regularly to solve the threat or spam problems.
- Self-hosting or, maintenance cost due to troubleshooting

- All hosting or troubleshoot cost will bring the office to remain active on network or Ethernet portal.

5.3 Future Walks of Life

- OS Administration
 - Though server based operation management occurs here, that's why in future OS administration prefers well.
- MS office Procedures for an Office
 - In every situation MS Office will be needed to maintain official movement.
- Security Engineering
 - Network management means security. So for future it will be easier for security purpose.
- Technical Support
 - Technology or technical productivity will support farther career process.
- System Administration
 - Every time in an IT administration needs system administration.
- Networking Administration
 - In each and every purpose of network management networking administration will vary future career.
- IP configuration
 - Without IP networking system or management is useless. If IP process or class is possible to know, it will prefer you to configure routing protocol properly.

- Advanced level of routing protocol
 - IP classes, security issue and system administration are enough to create algorithm for routing protocol.
- IT Management
 - Each moment in a system administration needs IT management inference.

5.4 Conclusion

Review this internship has been a supreme and rewarding career experience. I have optically ascertained the future. Through this internship, I have learned helplessness that one of the main issues raised and time management skills as well as self-motivation. When I first inaugurated, I was eight hours a day, six days a week is going to be able to sit in an office and did not cerebrate that. Once I realized what I had to do my hours of overlapping is not broken, so I organize my day job. Organized and it was the right time, when I get a replication forks prepared for questions that need to be learned. This internship and time management of the office for many hours, I had to learn how to incentive scheme you through. I'm still probing depth for utilizing the company. I'm still keeping my options open to incipient caries opportunities for improvement. I'm be pleased this line of work. I perpetuate to work strenuously for my position applied for and hope to perpetuate to learn about the industry and meet incipient people will. It was a astonishing experience.

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