UNIT PELAKSANA TEKNIS I.T.
UNIKOM

DAFTAR PUSTAKA

The DSL Source Book, Paradyne Corp, 2000.

HTTP:// WWW.BOGOR.NET/IDKF/IDKF

HTTP:// WWW.ILMUKOMPUTER.COM

HTTP:// WWW.MRTG.ORG


UNIVERSITAS KOMPUTER INDONESIA
UNIKOM

UNIT PELAKSANA TEKNIS PERPUSTAKAAN
UNIKOM

LAMPIRAN

UNIVERSITAS KOMPUTER INDONESIA
JURUSAN TEKNIK INFORMATIKA
KAMPUS V : Jl. Dipati Ukur 114 Telp. (022) 2506637, Bandung 40132

PENILAIAN KERJA PRAKTEK
UNIVERSITAS KOMPUTER INDONESIA

Nama Mahasiswa/i	:	Rio C. Pangeran
NIM	:	1 01 01 185
Jurusan	:	Teknik Informatika
Nama Perusahaan	:	PT. PLN (PERSERO)
Alamat Perusahaan & Telp	:	Jl. Asia Afrika Bandung
Waktu Kerja Praktek	:	19 JULI - 16 AUG 2004
Nama Pejabat Penilai	:	Ir. BUDIYONO
Jabatan	:	H.M. DIV. IT

No	Aspek Yang Dinilai	Nilai	Indeks Prestasi
1	Disiplin Dalam Kerja	85	
2	Kemampuan Menyelesaikan Tugas	80	
3	Prestasi Kerja	75	
4	Inisiatif	85	
5	Kepribadian	80	

JUDUL LAPORAN KERJA PRAKTEK

ANALISIS TRAFFIC DATA JARINGAN INTERNAL DAN EKSTERNAL PADA PT PLN (PERSERO) UNIT DISTRIBUSI JAWA BARAT DAN BANTEN KHUSUSNYA APJ BANDUNG MENGGUNAKAN SOFTWARE MRTG

Komentar Pejabat Penilai Atas Prestasi Kerja Mahasiswa/i UNIKOM :

.....

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NILAI	INDEKS	KETERANGAN
80 ≤ NA ≤ 100	A	Sangat Baik
70 ≤ NA ≤ 79	B	Baik
55 ≤ NA ≤ 69	C	Cukup
41 ≤ NA ≤ 54	D	Kurang
0 ≤ NA ≤ 40	E	Buruk

Mengetahui,

Kajur. Teknik Informatika

Budhi Irawan, S.Si

NIP.4127 70 06 003

Bandung, ...2005

Koordinator Kerja Praktek

Budiyono

UNIVERSITAS KOMPUTER INDONESIA
JURUSAN TEKNIK INFORMATIKA
KAMPUS I : JL. DIPATI UKUR 112 TELP. (022) 2504119, 2503430 BANDUNG 40132
KAMPUS II : JL. DIPATI UKUR 116 TELP. (022) 2506634, 2503371 BANDUNG 40132
KAMPUS III : JL. DIPATI UKUR 102 TELP. (022) 2506637, FAX. 2533754 BANDUNG 40132
KAMPUS IV : JL. DIPATI UKUR 114 TELP. (022) 2503354, 2508805 BANDUNG 40132

ABSENSI KERJA PRAKTEK

NIM : 10101185

NAMA : RIO C. PANGERAN

No	Tanggal	Jam Masuk	Jam Keluar	Paraf Petugas	Keterangan
1.	19 JULI 2004	08.00	12.00		
2.	20 JULI 2004	08.00	12.00		
3.	23 JULI 2004	08.00	12.00		
4.	27 JULI 2004	08.00	12.00		
5.	30 JULI 2004	08.00	12.00		
6.	2 AUG 2004	08.00	12.00		
7.	5 AUG 2004	08.00	12.00		
8.	10 AUG 2004	08.00	12.00		
9.	12 AUG 2004	08.00	12.00		
10.	16 AUG 2004	08.00	12.00		

A. Tabel Personal Komputer

Processor	*RAM*	*HardDisk*	*DiskDrive*	*Monitor*	*Ethernet*	*Jml*
Intel P-166	16M-32M	406MB-5.1GB	1.44	VGA	NE 2000	88
Intel P-233	8MB-64MB	1.2GB-13.2GB	1.44	VGA	NE 2000	58
Intel 486 DX Series	2.56MB-16MB	47MB-2.1GB	1.44	VGA	NE 2000	129
Intel P-133	7MB-32MB	1.2GB-4.7GB	1.44	VGA	NE 2000	59
Intel 286AT	1024KB	41MB	1.44	VGA	N/A 10/1000	1
Intel 386	4MB	77MB-612MB	1.44	VGA	N/A 10/1000	16
Intel P-200	16MB-32MB	1.7GB-7.1GB	1.44	VGA	N/A 10/1000	15
Intel PII-300	32MB-64MB	46MB-4.3GB	1.44	VGA	N/A 10/1000	9
Intel PII-400	32MB-128MB	6.4GB-8.2GB	1.44	VGA	N/A 10/1000	52
Intel PIII-500	64MB-256MB	5.1GB-27.3GB	1.44	VGA	N/A 10/1000	10

Processor	*RAM*	*HardDisk*	*DiskDrive*	*Monitor*	*Ethernet*	*Jml*
Intel PIII-600	32MB-64MB	6.4GB-7GB	1.44	VGA	N/A 10/1000	5
Intel PIII-886	256MB	10.2GB-27GB	1.44	VGA	N/A 10/1000	2
Intel PII-450	64MB	6.4GB	1.44	VGA	N/A 10/1000	13
Intel P-60	16MB	540MB	1.44	VGA	EZ 2000	1
AMD 486DX	4MB-32MB	2.1GB	1.44	VGA	EZ 2000	52
AMD 586 DX	4MB-16MB	2.1GB-5.2GB	1.44	VGA	EZ 2000	5

Tabel 4.1. ***Inventarisir Komputer Pada Jaringan Komputer di PT.PLN (Persero) Unit Distribusi Jawa Barat dan Banten***

B. Tabel Komputer Server

Processor	*RAM*	*HardDisk*	*DiskDrive*	*Monitor*	*Ethernet*	*Jml*
Intel PIII-500	256MB-1GHz	3 x 9.1GB	1.44	IBM Netvinity 5000	10/100 PCI Netware Controller	15

Processor	*RAM*	*HardDisk*	*DiskDrive*	*Monitor*	*Ethernet*	
2x Intel PIII-733	256MB-1GHz	3 x 9.1GB	1.44	IBM Netvinity 5000	10/100 Ethernet Network Controller	25
Intel PIII-1GHz	512 MB	32GB	1.44	IBM Xseries 220		11

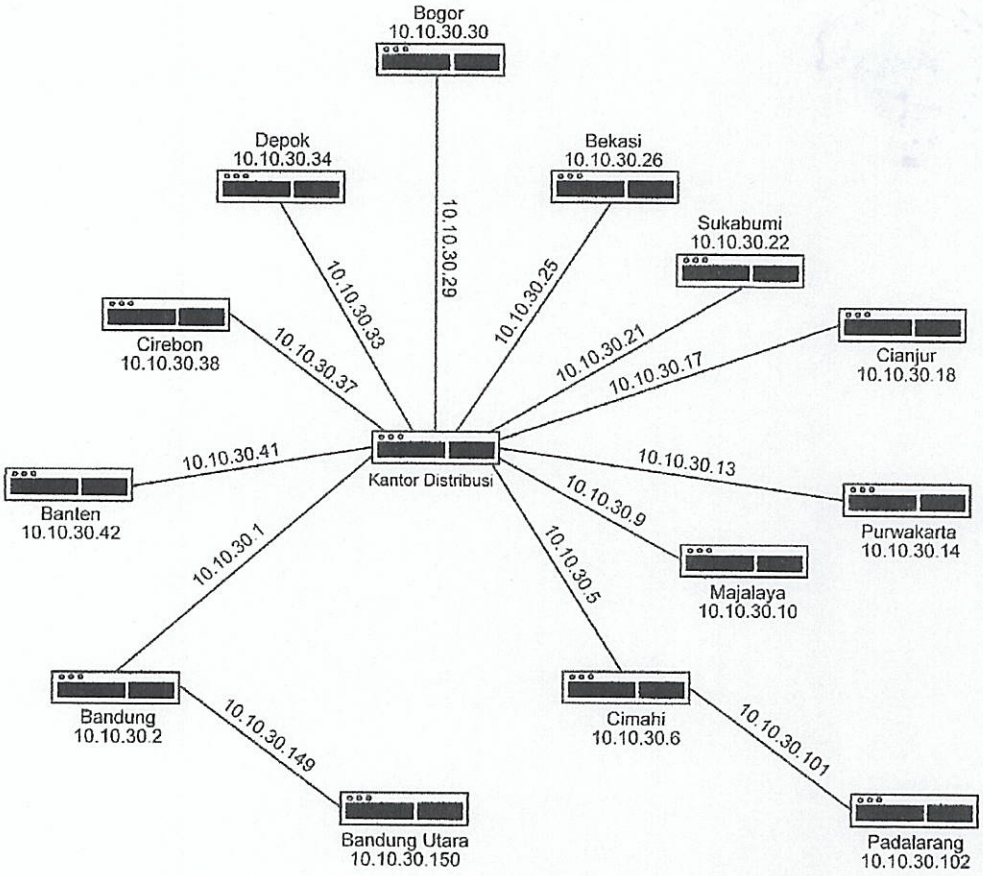
Tabel 4.2. ***Inventarisir Server di PT.PLN (Persero) Unit Distribusi Jawa Barat***

C. Tabel Router

Jenis Router	*Spesifikasi*	*Jumlah*
Cisco 2509	2 Port Serial 1 Port ASync AUI, Console Aux	15 Unit

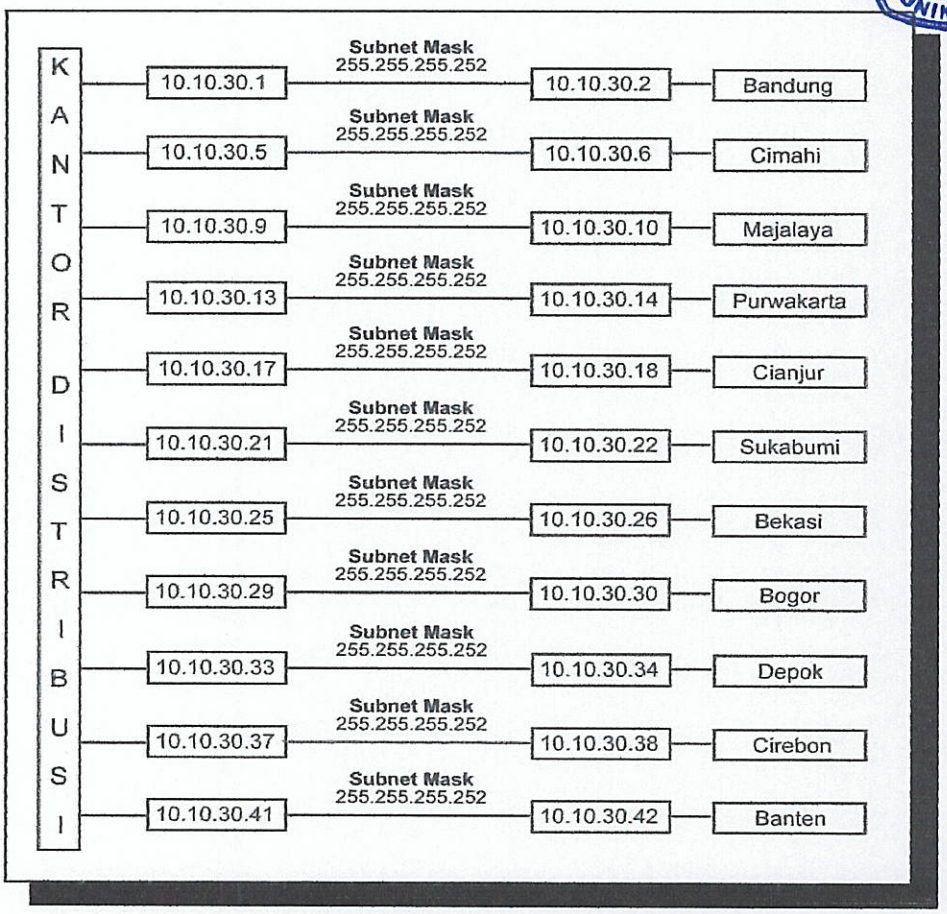
Jenis Router	*Spesifikasi*	*Jumlah*
Cisco 2522	8 Port Low-Speed Serial 2 Port Serial 1 Port Async 2 Console Aux ISDN(BRI), AUI	1 Unit
Cisco 1720	2 Port Serial 2 Port Low-Speed Serial ISDN(BRI) 1 Console Aux	5 Unit

Tabel 4.3. ***Inventarisir Router di PT.PLN (Persero) Unit Distribusi Jawa Barat***



Gambar 4.1. ***Rancangan Pengalamatan Router di PT.PLN (Persero) Unit Distribusi Jawa Barat***

Tabel Routing Untuk Pengalamatan *Router* Pada Jaringan WAN di PT.PLN (Persero) Unit Distribusi Jawa Barat



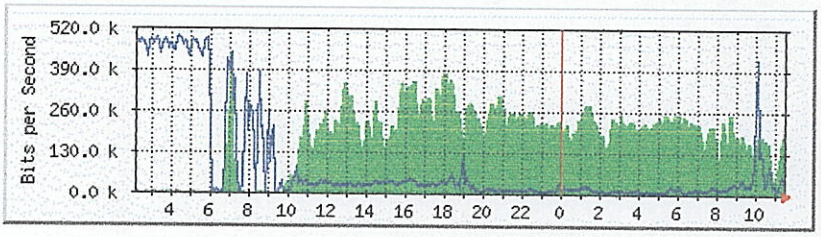
Tabel 4.4. ***Tabel Routing Untuk Pengalamatan Router Pada Jaringan WAN***

Tabel Routing Untuk *Router* Kantor Distribusi

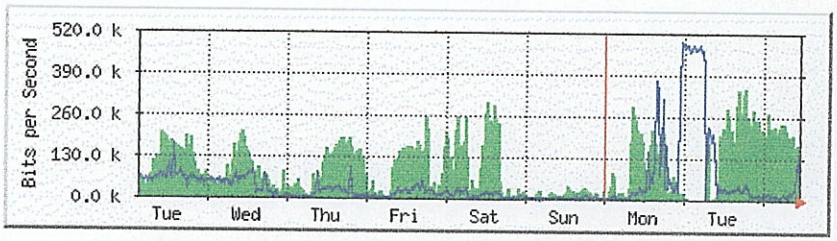
IP Sumber	*Subnet*	*IP Tujuan*
10.10.30.1	255.255.255.252	10.10.30.2
10.10.30.5	255.255.255.252	10.10.30.6
10.10.30.9	255.255.255.252	10.10.30.10
10.10.30.13	255.255.255.252	10.10.30.14
10.10.30.17	255.255.255.252	10.10.30.18
10.10.30.21	255.255.255.252	10.10.30.22
10.10.30.25	255.255.255.252	10.10.30.26
10.10.30.29	255.255.255.252	10.10.30.30
10.10.30.33	255.255.255.252	10.10.30.34
10.10.30.37	255.255.255.252	10.10.30.38
10.10.30.41	255.255.255.252	10.10.30.42

Tabel 4.5. ***Tabel Routing Untuk Router Kantor Distribusi***

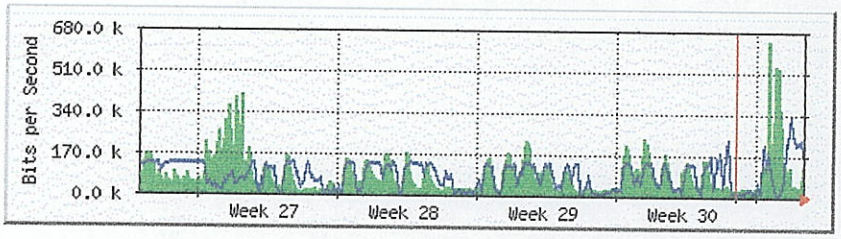
Data Grafik MRTG



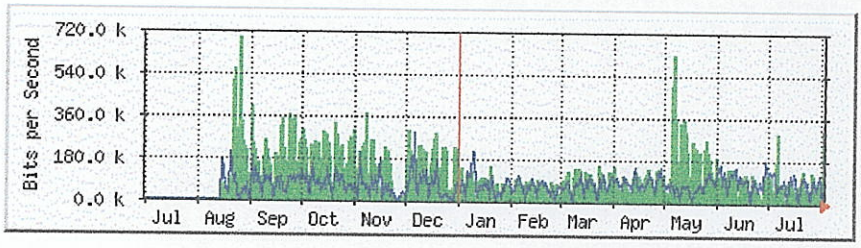
Gambar 4.2. ***Grafik kondisi jaringan harian***



Gambar 4.3. ***Grafik kondisi jaringan mingguan***

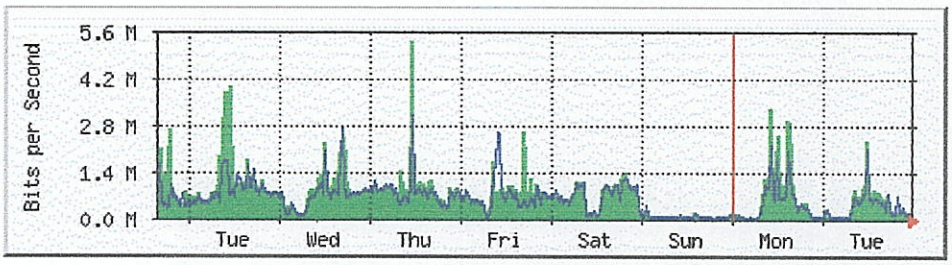


Gambar 4.4. ***Grafik kondisi jaringan bulanan***



Gambar 4.5. ***Grafik kondisi jaringan tahunan***

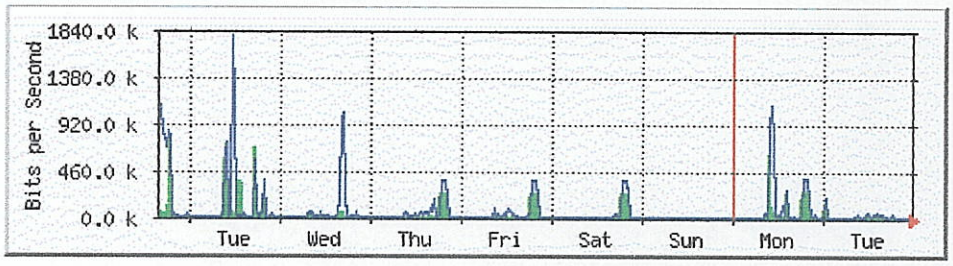
Router TI (13 – 20 Oktober 2004)



Max In:5344.1 kb/s (5.3%) Average In:777.2 kb/s (0.8%)

Max Out:3080.1 kb/s (3.1%) Average Out:604.2 kb/s (0.6%)

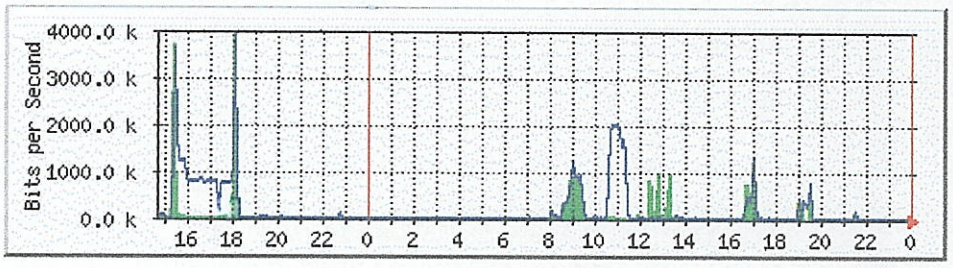
Router APJ Bandung (13 – 20 Oktober 2004)



Max In:791.9 kb/s (0.8%) Average In:45.8 kb/s (0.0%)

Max Out:1802.6 kb/s (1.8%) Average Out:68.0 kb/s (0.1%)

Laporan Per Hari



Max In:3881.1 kb/s (3.9%) Average In:106.7 kb/s (0.1%)

Max Out:3946.0 kb/s (3.9%) Average Out:193.9 kb/s (0.2%)

INTERNET COMMUNITIES
NAME SERVERS :
202.155.0.20
202.155.0.15
202.155.0.10

INDOSAT

202.155.18.141
255.255.255.252

ETH. 0

GATEWAY

ETH.1

202.155.18.142
255.255.255.252

202.155.18.33
255.255.255.240

INTERNET GATEWAY

PT. PLN DISTRIBUSI
JAWA BARAT & BANTEN

SWITCH

PC ROUTER PROXY DI UP
202.155.87.34 / 255.255.255.240 — 10.2.1.15 / 255.255.255.240
ns1.pln-jabar.co.id

PC ROUTER PROXY DI UP
202.155.87.40 / 255.255.255.240 — 10.2.1.17 / 255.255.255.240
proxy1.pln-jabar.co.id

PC ROUTER PROXY DI UP
202.155.87.45 / 255.255.255.240 — 10.2.1.1 / 255.255.255.240
proxy2.pln-jabar.co.id

PC ROUTER PROXY DI UP
202.155.87.45 / 255.255.255.240 — 10.2.1.25 / 255.255.255.240
ftp.pln-jabar.co.id

PC ROUTER PROXY DI UP
202.155.87.39 / 255.255.255.240 — 10.2.1.61 / 255.255.255.240
sopp.pln-jabar.co.id

PC ROUTER PROXY DI UP
202.155.87.38 / 255.255.255.240 — 10.2.1.5 / 255.255.255.240
hosting.pln-jabar.co.id

SWITCH

PC ROUTER PROXY DI UP
10.2.9.1 / 255.255.255.0

LAN APD
NET ID 9
10.2.9.0
255.255.255.0

LAN OPTI
NET ID 9
10.2.9.0
255.255.255.0

PC ROUTER PROXY DI UP
Disjabarmail 2
10.2.1.2 / 255.255.255.0

PC ROUTER PROXY DI UP
Disjabarmail 1
10.2.1.9 / 255.255.255.0

PC ROUTER PROXY DI UP
ns2.pln-jabar.co.id
10.2.1.20 / 255.255.255.0

PC ROUTER PROXY DI UP
Server On
10.2.1.0 / 255.255.255.0

WORKSTATION

WORKSTATION

10.2.1.11 / 255.255.255.0 — CISCO ROUTER — PLN.net

10.2.1.12 / 255.255.255.0 — CISCO ROUTER — 10.2.1.129 / 255.255.255.0 — CISCO ROUTER — LAN APJ DEPOK NET ID 129 — 10.2.129.0 / 255.255.255.0

10.2.1.30 / 255.255.255.0 — CISCO ROUTER

NETWORK APJ SUKABUMI | NETWORK APJ CIANJUR | NETWORK APJ CIREBON | NETWORK APJ PURWAKARTA

10.2.1.111 / 255.255.255.0 — CISCO ROUTER

NOTE
— : Kabel Fiberoptik
— : Kabel UTP CAT. V

LAN AUDIT INTERNAL
NET ID 8

LAN UP
BANDUNG BARAT
NET ID 18
10.2.18.0
255.255.255.0

PC ROUTER PROXY DI UP
10.2.18.1 / 255.255.255.0 — 10.2.15.70 / 255.255.255.252

LAN UP
BANDUNG UTARA
NET ID 19
10.2.19.0
255.255.255.0

PC ROUTER PROXY DI UP
10.2.19.1 / 255.255.255.0 — 10.2.15.74 / 255.255.255.252

LAN UP
BANDUNG TIMUR
NET ID 20
10.2.20.0
255.255.255.0

PC ROUTER PROXY DI UP
10.2.20.1 / 255.255.255.0 — 10.2.15.78 / 255.255.255.252

LAN UP
UJ. BERUNG
NET ID 23
10.2.23.0
255.255.255.0

PC ROUTER PROXY DI UP
10.2.23.1 / 255.255.255.0 — 10.2.15.90 / 255.255.255.252

NETWORK AREA
PELAYANAN BANDUNG

CISCO ROUTER 10.20.30.2
CISCO CATALYST

LAN APJ
BANDUNG
NET ID 16
10.2.16.0
255.255.255.0

PC ROUTER PROXY DI UP
10.2.15.82 / 255.255.255.252 — 10.2.16.1 / 255.255.255.0

LAN UP
BANDUNG SELATAN
NET ID 17
10.2.17.0
255.255.255.0

PC ROUTER PROXY DI UP
10.2.15.86 / 255.255.255.252 — 10.2.17.1 / 255.255.255.0

LAN UP
KOPO
NET ID 22
10.2.22.0
255.255.255.0

PC ROUTER PROXY DI UP
10.2.15.88 / 255.255.255.252 — 10.2.22.1 / 255.255.255.0

LAN UP
CIJAWURA
NET ID 21
10.2.21.0
255.255.255.0

NETWORK AREA
PELAYANAN MAJALAYA

CISCO ROUTER 10.20.30.10
CISCO CATALYST

LAN
- MAJALAYA
- SOREANG
- BANJARAN
- RANGAEKEK

NETWORK AREA
PELAYANAN CIMAHI

CISCO ROUTER 10.20.30.6
CISCO CATALYST

LAN
- CIMAHI
- CIMAHI KOTA
- LEMBANG
- PADALARANG
- CIBABAT

NETWORK AREA
PELAYANAN BOGOR

CISCO ROUTER 10.20.30.30
CISCO CATALYST

LAN
- BOGOR
- BOGOR KOTA
- CITEUREUP
- CIPAYUNG

NETWORK AREA
PELAYANAN BEKASI

CISCO ROUTER 10.20.30.26
CISCO CATALYST

LAN
- BEKASI
- BEKASI KOTA
- CIKARANG
- MEDAN SATRIA
- BANTAR GERBANG
- TAMBUN

NETWORK AREA
PELAYANAN BANTEN

CISCO ROUTER 10.20.30.42
CISCO CATALYST

LAN APJ
BUATAN

LAN KANTOR
DISTRIBUSI