

LAPORAN HASIL KERJA  
PEMBUATAN APLIKASI MONITORING AUTOMATIS



PT. IMANI PRIMA 2018

Dikerjakan oleh :

Hadziq

Nazmudin

Chandra

Dony

## PEMBUATAN APLIKASI MONITORING AUTOMATIS

Aplikasi **Monitoring Automatis** adalah sebuah aplikasi yang digunakan untuk memonitoring server dan web

Tujuan pembuatan aplikasi ini adalah untuk memudahkan khususnya Helpdesk memonitoring umumnya Divisi technical support

Tools yang digunakan untuk membuat Aplikasi **Monitoring Automatis** ini adalah Python, Linux, PHP, Postgres

### Daftar aplikasi yang di buat :

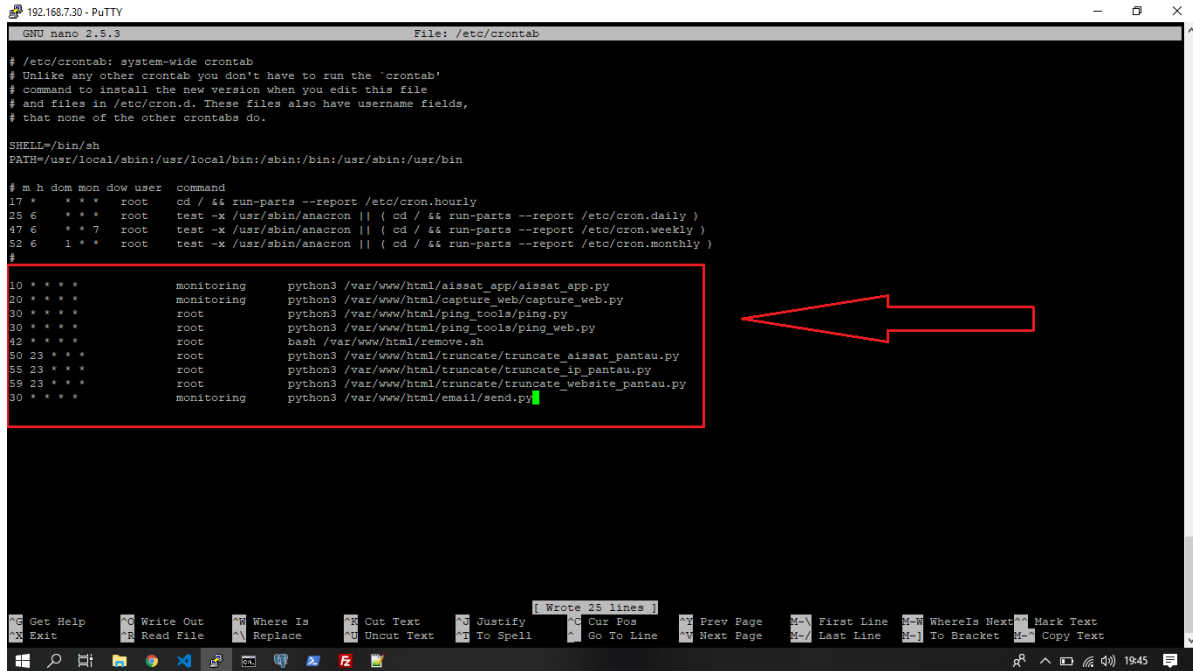
1. Script python untuk ping IP server serta insert database
2. Script python untuk ping IP website serta insert database
3. Script python untuk screenshot website
4. Script python untuk screenshot app web
5. Script python untuk hapus file dan database
6. Script python untuk kirim email notifikasi ketika ada status abnormal
7. Web Interface untuk menampilkan semua hasil dari script python

### Proses kerja aplikasi :

1. Semua script python di jalankan secara otomatis oleh crontab linux setiap 1 jam sekali
2. Semua hasil dari script python yang berjalan tersimpan di folder yang sudah di setup dan untuk database di insert ke postgres
3. Semua hasil di tampilkan Interface yang sudah berjalan dan bias di akses melalui link ini **k44.now.im:60606**
4. Khusus untuk IP server dan IP website jika terjadi ABNORMAL system akan langsung kirim email ke email [helpdesk@imaniprima.co.id](mailto:helpdesk@imaniprima.co.id)

## TAMPILAN INTERFACE WEB

### CRONTAB SCRIPT PYTHON

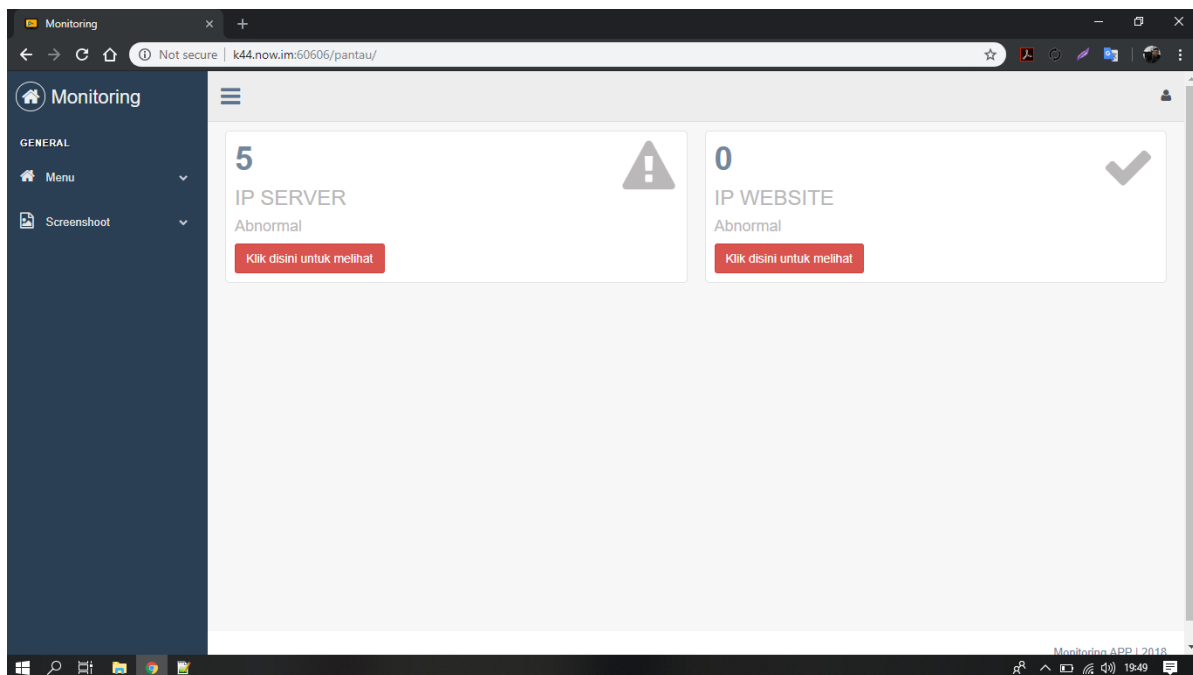


```
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab`
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.

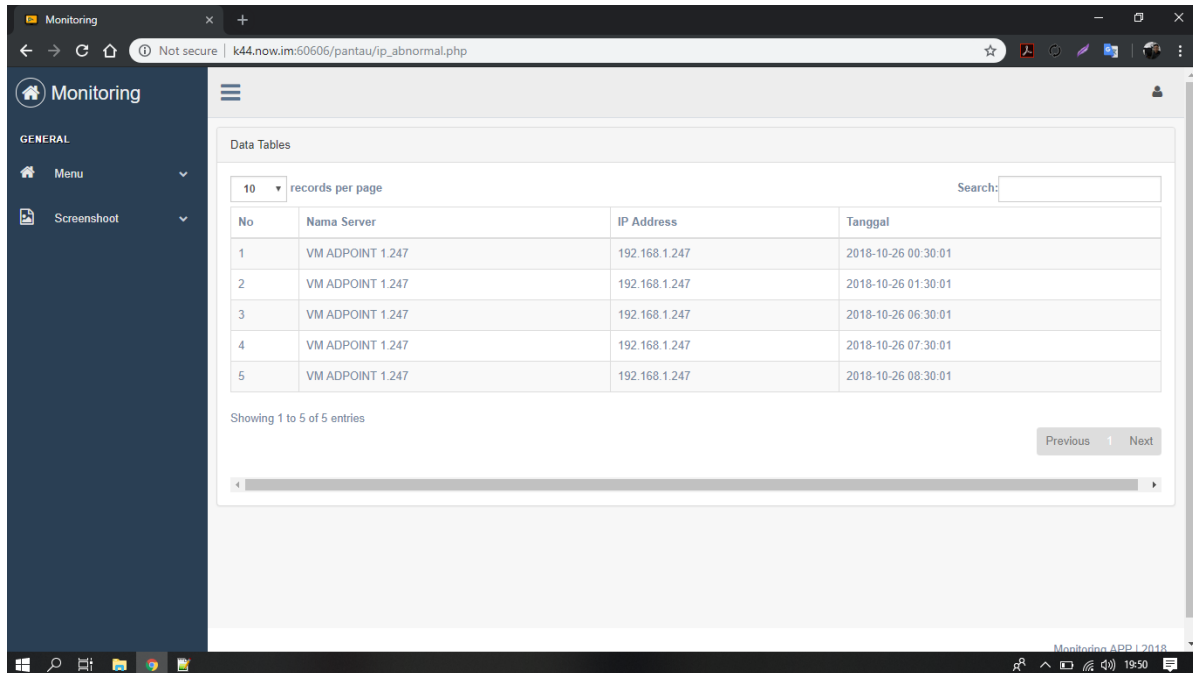
SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin

# m h dom mon dow user  command
17 * * * * root    cd / && run-parts --report /etc/cron.hourly
25 6 * * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )
47 6 * * 7 root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly )
52 6 1 * * root    test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.monthly )
#
10 * * * * monitoring    python3 /var/www/html/aissat_app/aissat_app.py
20 * * * * monitoring    python3 /var/www/html/capture_web/capture_web.py
30 * * * * root            python3 /var/www/html/ping_tools/ping_web.py
42 * * * * root            bash /var/www/html/remove.sh
50 23 * * * root            python3 /var/www/html/truncate/truncate_aissat_pantau.py
55 23 * * * root            python3 /var/www/html/truncate/truncate_ip_pantau.py
59 23 * * * root            python3 /var/www/html/truncate/truncate_website_pantau.py
30 * * * * monitoring    python3 /var/www/html/email/send.py
```

## DASHBOARD



## LIST ABNORMAL



Monitoring

GENERAL

Menu

Screenshoot

Data Tables

10 records per page

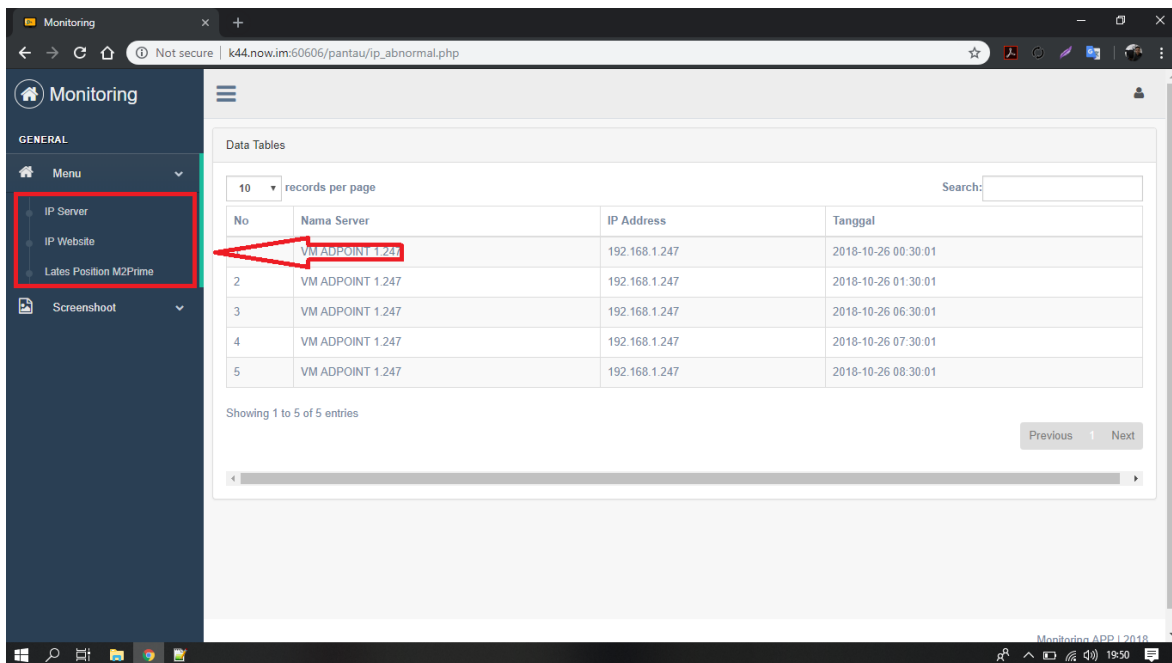
Search:

No	Nama Server	IP Address	Tanggal
1	VM ADPOINT 1.247	192.168.1.247	2018-10-26 00:30:01
2	VM ADPOINT 1.247	192.168.1.247	2018-10-26 01:30:01
3	VM ADPOINT 1.247	192.168.1.247	2018-10-26 06:30:01
4	VM ADPOINT 1.247	192.168.1.247	2018-10-26 07:30:01
5	VM ADPOINT 1.247	192.168.1.247	2018-10-26 08:30:01

Showing 1 to 5 of 5 entries

Previous 1 Next

## MENU LIST



Monitoring

GENERAL

Menu

Screenshoot

Data Tables

10 records per page

Search:

No	Nama Server	IP Address	Tanggal
1	VM ADPOINT 1.247	192.168.1.247	2018-10-26 00:30:01
2	VM ADPOINT 1.247	192.168.1.247	2018-10-26 01:30:01
3	VM ADPOINT 1.247	192.168.1.247	2018-10-26 06:30:01
4	VM ADPOINT 1.247	192.168.1.247	2018-10-26 07:30:01
5	VM ADPOINT 1.247	192.168.1.247	2018-10-26 08:30:01

Showing 1 to 5 of 5 entries

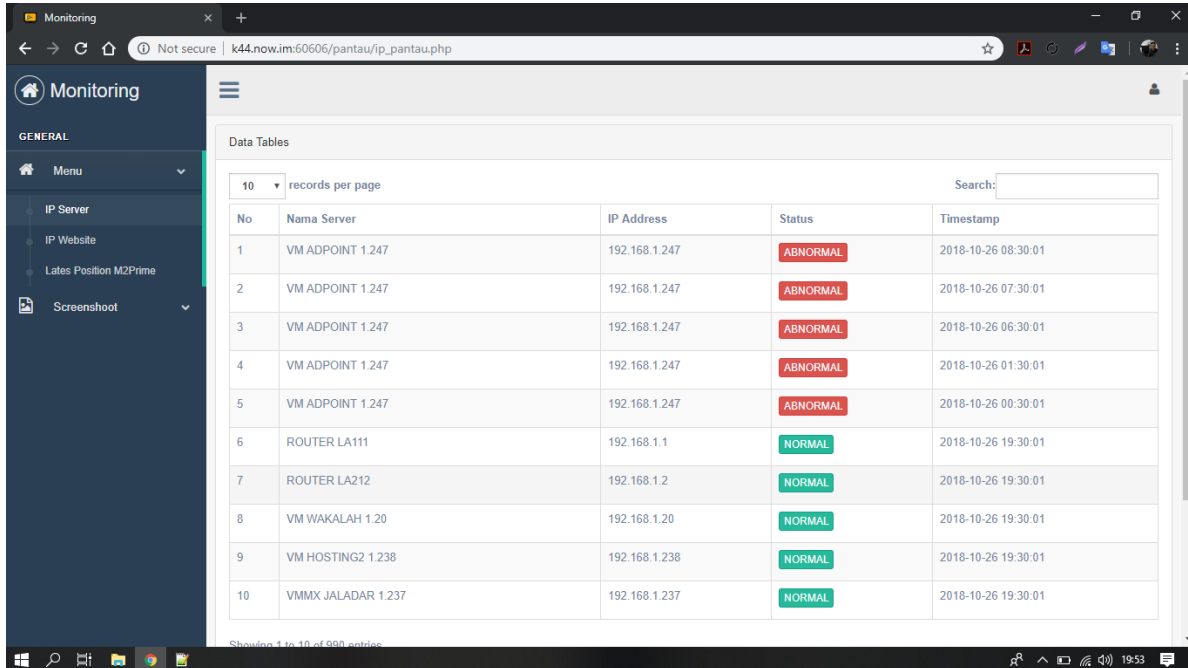
Previous 1 Next

IP Server

IP Website

Lates Position M2Prime

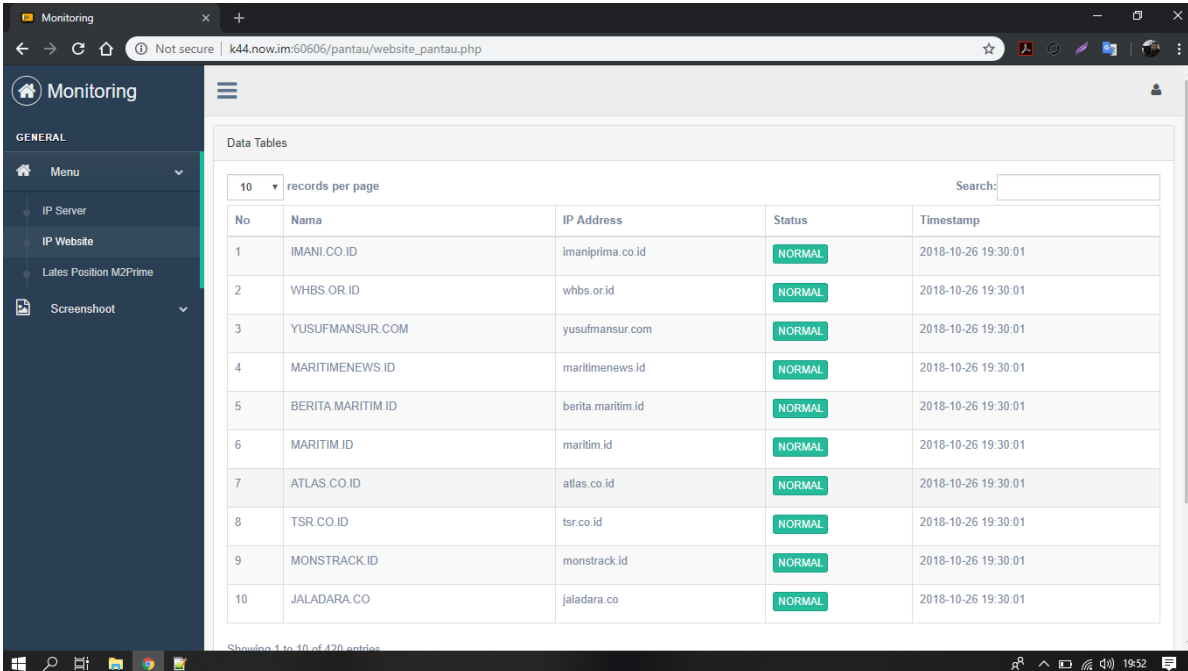
## LIST IP SERVER



The screenshot shows a web application titled "Monitoring" with a sidebar menu. The "Menu" is expanded, showing "IP Server" as the selected option. The main content area displays a table of IP servers. The table has columns for "No", "Nama Server", "IP Address", "Status", and "Timestamp". There are 10 entries in the table. The first five entries have a status of "ABNORMAL" (red), and the last five have a status of "NORMAL" (green). The "Timestamp" for all entries is "2018-10-26 19:30:01".

No	Nama Server	IP Address	Status	Timestamp
1	VM ADPOINT 1.247	192.168.1.247	ABNORMAL	2018-10-26 08:30:01
2	VM ADPOINT 1.247	192.168.1.247	ABNORMAL	2018-10-26 07:30:01
3	VM ADPOINT 1.247	192.168.1.247	ABNORMAL	2018-10-26 06:30:01
4	VM ADPOINT 1.247	192.168.1.247	ABNORMAL	2018-10-26 01:30:01
5	VM ADPOINT 1.247	192.168.1.247	ABNORMAL	2018-10-26 00:30:01
6	ROUTER LA111	192.168.1.1	NORMAL	2018-10-26 19:30:01
7	ROUTER LA212	192.168.1.2	NORMAL	2018-10-26 19:30:01
8	VM WAKALAH 1.20	192.168.1.20	NORMAL	2018-10-26 19:30:01
9	VM HOSTING2 1.238	192.168.1.238	NORMAL	2018-10-26 19:30:01
10	VMMX JALADAR 1.237	192.168.1.237	NORMAL	2018-10-26 19:30:01

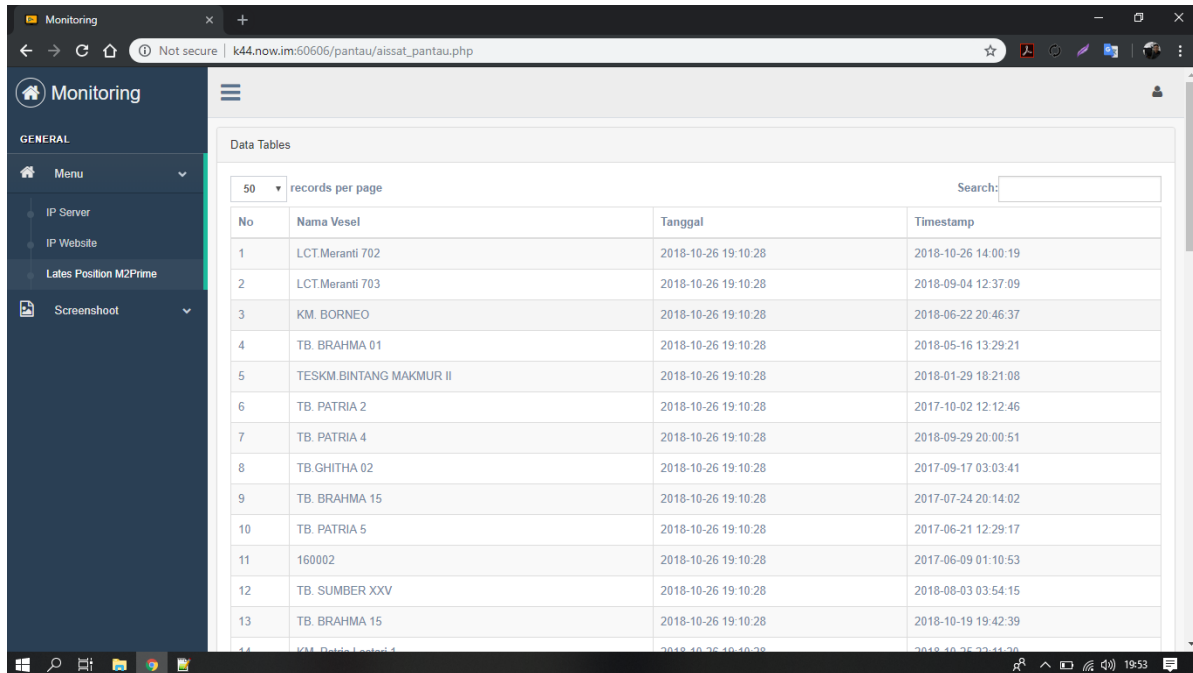
## LIST IP WEBSITE



The screenshot shows the same "Monitoring" web application, but with the "IP Website" option selected in the sidebar menu. The main content area displays a table of IP websites. The table has columns for "No", "Nama", "IP Address", "Status", and "Timestamp". There are 10 entries in the table. All entries have a status of "NORMAL" (green). The "Timestamp" for all entries is "2018-10-26 19:30:01".

No	Nama	IP Address	Status	Timestamp
1	IMANI.CO.ID	imaniprma.co.id	NORMAL	2018-10-26 19:30:01
2	WHBS.OR.ID	whbs.or.id	NORMAL	2018-10-26 19:30:01
3	YUSUFMANSUR.COM	yusufmansur.com	NORMAL	2018-10-26 19:30:01
4	MARITIMNEWS.ID	maritimnews.id	NORMAL	2018-10-26 19:30:01
5	BERITA.MARITIM.ID	berita.maritim.id	NORMAL	2018-10-26 19:30:01
6	MARITIM.ID	maritim.id	NORMAL	2018-10-26 19:30:01
7	ATLAS.CO.ID	atlas.co.id	NORMAL	2018-10-26 19:30:01
8	TSR.CO.ID	tsr.co.id	NORMAL	2018-10-26 19:30:01
9	MONSTRACK.ID	monstrack.id	NORMAL	2018-10-26 19:30:01
10	JALADARA.CO	jaladara.co	NORMAL	2018-10-26 19:30:01

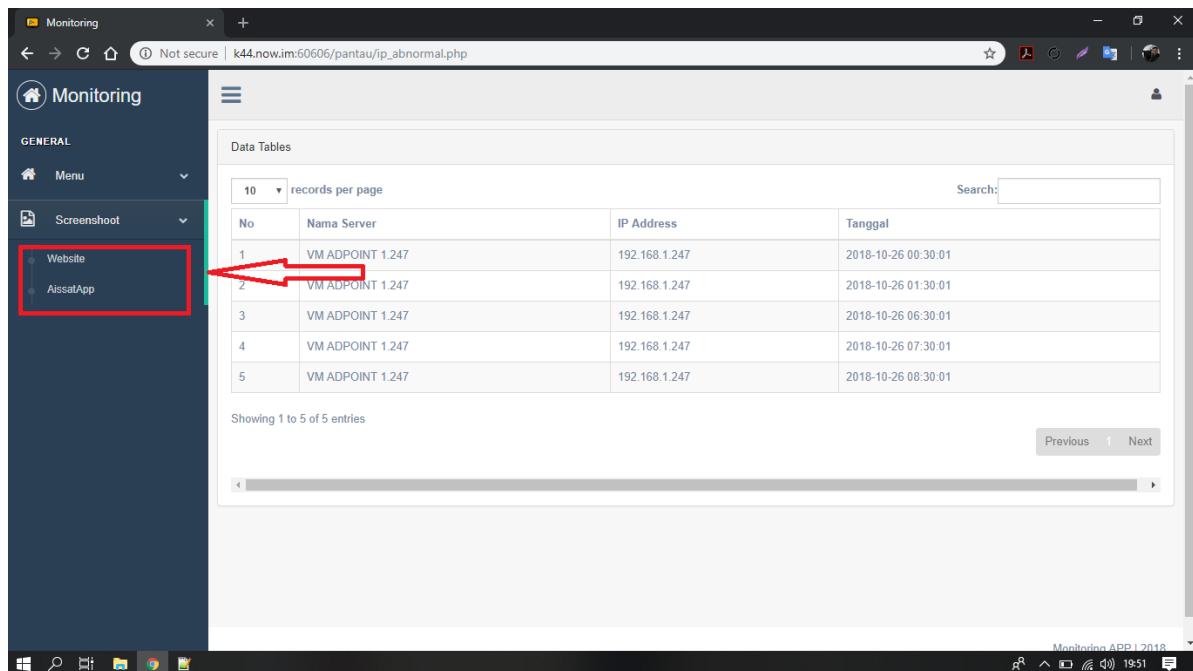
## M2PRIME DATA PARSING LEBIH DARI 3 JAM



The screenshot shows the Monitoring application interface. The left sidebar has a 'Menu' dropdown with options: IP Server, IP Website, Lates Position M2Prime, and Screenshot. The main content area is titled 'Data Tables' and displays a table with 13 records. The table has columns: No, Nama Vesel, Tanggal, and Timestamp. The records are as follows:

No	Nama Vesel	Tanggal	Timestamp
1	LCT.Meranti 702	2018-10-26 19:10:28	2018-10-26 14:00:19
2	LCT.Meranti 703	2018-10-26 19:10:28	2018-09-04 12:37:09
3	KM. BORNEO	2018-10-26 19:10:28	2018-06-22 20:46:37
4	TB. BRAHMA 01	2018-10-26 19:10:28	2018-05-16 13:29:21
5	TESKM.BINTANG MAKMUR II	2018-10-26 19:10:28	2018-01-29 18:21:08
6	TB. PATRIA 2	2018-10-26 19:10:28	2017-10-02 12:12:46
7	TB. PATRIA 4	2018-10-26 19:10:28	2018-09-29 20:00:51
8	TB. GHITHA 02	2018-10-26 19:10:28	2017-09-17 03:03:41
9	TB. BRAHMA 15	2018-10-26 19:10:28	2017-07-24 20:14:02
10	TB. PATRIA 5	2018-10-26 19:10:28	2017-06-21 12:29:17
11	160002	2018-10-26 19:10:28	2017-06-09 01:10:53
12	TB. SUMBER XXV	2018-10-26 19:10:28	2018-08-03 03:54:15
13	TB. BRAHMA 15	2018-10-26 19:10:28	2018-10-19 19:42:39

## MENU SCREENSHOOT



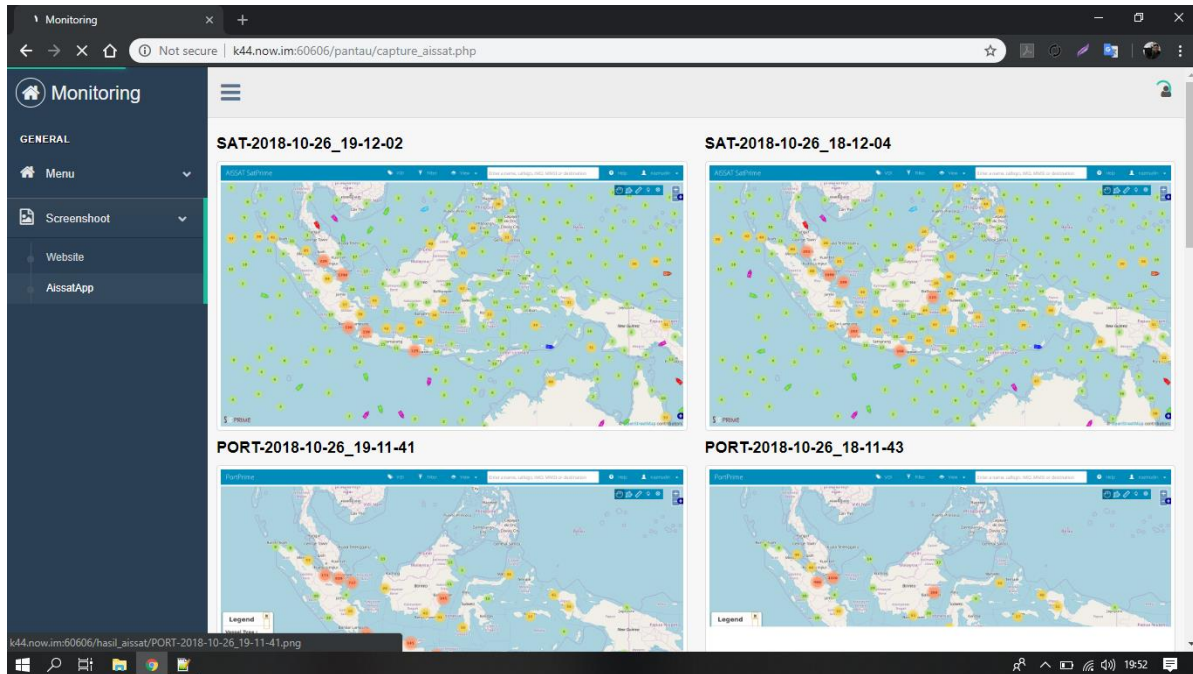
The screenshot shows the Monitoring application interface. The left sidebar has a 'Menu' dropdown with options: IP Server, IP Website, Lates Position M2Prime, and Screenshot. The 'Screenshot' menu is highlighted with a red box. The main content area is titled 'Data Tables' and displays a table with 5 records. The table has columns: No, Nama Server, IP Address, and Tanggal. The records are as follows:

No	Nama Server	IP Address	Tanggal
1	VM ADPOINT 1.247	192.168.1.247	2018-10-26 00:30:01
2	VM ADPOINT 1.247	192.168.1.247	2018-10-26 01:30:01
3	VM ADPOINT 1.247	192.168.1.247	2018-10-26 06:30:01
4	VM ADPOINT 1.247	192.168.1.247	2018-10-26 07:30:01
5	VM ADPOINT 1.247	192.168.1.247	2018-10-26 08:30:01

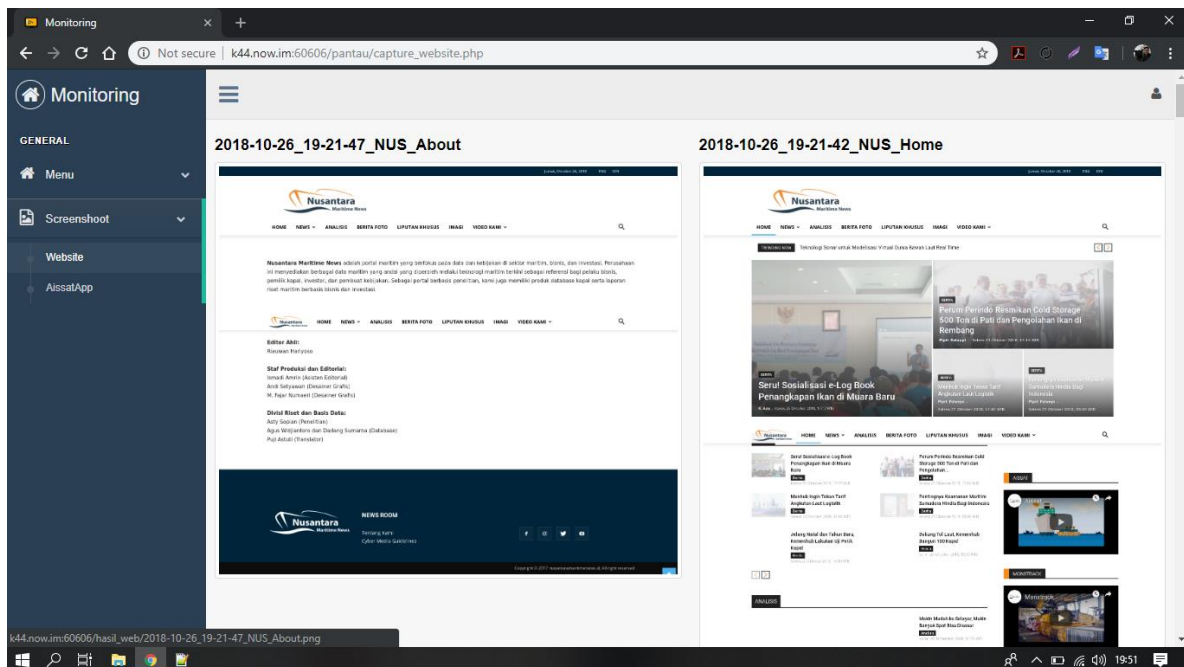
Showing 1 to 5 of entries

Previous 1 Next

## SCREENSHOOT WEBAPP



## SCREENSHOOT WEBSITE



## CONTOH EMAIL NOTIFIKASI



### KETERANGAN :

- Halaman awal DASHBOARD menampilkan data ketika data semua IP jika terjadi ABNORMAL
- Menu LIST adalah menu yang menampilkan data keseluruhan
- Menu SCREENSHOOT adalah menu yang menampilkan hasil screenshot dari script python

Demikian laporan yang kami buat kurang lebihnya mohon dimaafkan dan dimaklumi

Terimakasih.

Jakarta, 26 Oktober 2018

Hormat kami,

**Team Support**