

App Logwebmin

Aplikasi ini adalah hasil pengembangan mandiri Dinas Kominfo Bartim untuk memonitoring dan memblokir aktivitas client yang mencurigakan pada server webmin (server apache).

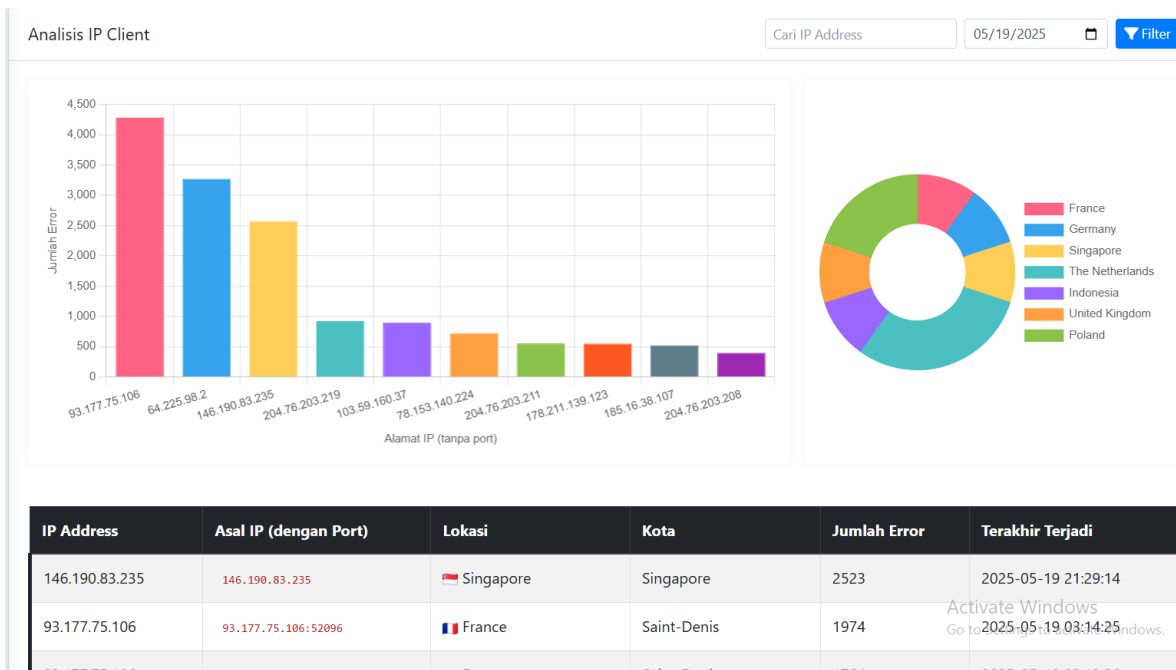
Monitoring Server Webmin6

Username

Kata Sandi

Masuk

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Apikasi ini telah diinstall pada server Apache dengan spesifikasi:

1. CPU 8x Intel(R) Xeon(R) Bronze 3206R CPU @ 1.90GHz (1 Socket)
2. RAM 32 GB
3. HDD 100GB
4. OS Linux Mint 20.2

Aplikasi dapat diunduh pada link [Cloud Repositori Bartim](#).

Petunjuk Instalasi:

1. Upload file aplikasi pada /var/www/html/logwebmin
2. Buat konfigurasi virtual domain pada /etc/apache2/sites-available/000-default.conf

```
<VirtualHost *:80>
  ServerName log6.baritotimurkab.go.id
  DocumentRoot /var/www/html/logwebmin/public
  RewriteEngine on
  DocumentRoot /var/www/html/logwebmin/public
  RewriteCond %{SERVER_NAME} =www.log6.baritotimurkab.go.id [OR]
  RewriteCond %{SERVER_NAME} =log6.baritotimurkab.go.id
  RewriteRule ^ https://%{SERVER_NAME}%{REQUEST_URI} [END,NE,R=permanent]
</VirtualHost>
```

3. Buat ssl dengan letsencrypt
4. Buat konfigurasi virtual domain ssl pada /etc/apache2/sites-available/default-ssl.conf

```
<IfModule mod_ssl.c>
<VirtualHost *:443>
  ServerName log6.baritotimurkab.go.id
  DocumentRoot /var/www/html/logwebmin/public

  SSLEngine on
  SSLCertificateFile /etc/letsencrypt/live/log6.baritotimurkab.go.id/fullchain.pem
  SSLCertificateKeyFile /etc/letsencrypt/live/log6.baritotimurkab.go.id/privkey.pem
  Include /etc/letsencrypt/options-ssl-apache.conf

  ErrorLog ${APACHE_LOG_DIR}/logwebmin_error.log
  CustomLog ${APACHE_LOG_DIR}/logwebmin_access.log combined
</VirtualHost>
</IfModule>
```

5. Buat inisiasi fitur socket
nano /etc/systemd/system/ipblock.service

```
isi:
[Unit]
Description=IP Blocking Service
Requires=ipblock.socket

[Service]
Type=simple
ExecStart=/usr/local/bin/ipblock-daemon
User=www-data
Group=www-data
Restart=always
RestartSec=5
Environment="SOCKET_PATH=/var/www/html/logwebmin/storage/sockets/ipblock.sock"

[Install]
WantedBy=multi-user.target
```

nano /etc/systemd/system/ipblock.socket

```
isi:
[Unit]

Description=IP Blocking Socket

[Socket]
ListenStream=/var/www/html/logwebmin/storage/sockets/ipblock.sock
SocketUser=www-data
SocketGroup=www-data
SocketMode=0660

[Install]
WantedBy=sockets.target
```

nano /usr/local/bin/ipblock-daemon (berikan permissions 0755 dan ownership www-data)

```
isi:
#!/usr/bin/python3

import socket
import os
import subprocess
import re

SOCKET_PATH = '/var/www/html/logwebmin/storage/sockets/ipblock.sock'
```

```

# Setup socket directory
os.makedirs(os.path.dirname(SOCKET_PATH), exist_ok=True)

# Remove old socket if exists
try:
    os.unlink(SOCKET_PATH)
except FileNotFoundError:
    pass

# Create and bind socket
sock = socket.socket(socket.AF_UNIX, socket.SOCK_STREAM)
sock.bind(SOCKET_PATH)
sock.listen(1)
os.chmod(SOCKET_PATH, 0o660)
os.chown(SOCKET_PATH, 33, 33) # www-data user and group ID

def validate_ip(ip):
    """Validate IPv4 address format"""
    pattern = r'^((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.)?)?)?)$'
    return re.match(pattern, ip) is not None

while True:
    conn, _ = sock.accept()
    try:
        data = conn.recv(1024).decode().strip()
        if not data:
            continue

        # Handle unblock command
        if data.startswith('unblock:'):
            ip = data.split(':')[1]
            if validate_ip(ip):
                try:
                    subprocess.run(['sudo', '/usr/local/bin/unblock-ip.sh', ip], check=True)
                    conn.send(b"OK")
                except subprocess.CalledProcessError as e:
                    conn.send(f"ERROR: Unblock failed - {str(e)}.encode()")
            else:
                conn.send(b"ERROR: Invalid IP format for unblock")

        # Handle block command (original functionality)
        else:
            ip = data
            if validate_ip(ip):
                try:

```

```
        subprocess.run(['sudo', '/usr/local/bin/block-ip.sh', ip], check=True)
        conn.send(b"OK")
    except subprocess.CalledProcessError as e:
        conn.send(f"ERROR: Block failed - {str(e)}.encode()")
    else:
        conn.send(b"ERROR: Invalid IP format for block")

except Exception as e:
    conn.send(f"ERROR: Server error - {str(e)}.encode()")
finally:
    conn.close()
```

nano /usr/local/bin/block-ip.sh

```
isi:
#!/bin/bash
IP=$1
iptables -A INPUT -s $IP -j DROP
```

nano /usr/local/bin/unblock-ip.sh

```
isi:
#!/bin/bash
IP=$1
iptables -D INPUT -s $IP -j DROP
```

6. Berikan akses www-data untuk menjalankan shell block-ip.sh dan unblock-ip.sh

nano /etc/sudoers

```
isi:
#

# This file MUST be edited with the 'visudo' command as root.
#
# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
#
# See the man page for details on how to write a sudoers file.
#
Defaults    env_reset
Defaults    mail_badpass
Defaults    secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/snap/bin"

# Host alias specification

# User alias specification

# Cmnd alias specification
```

```
# User privilege specification
```

```
root ALL=(ALL:ALL) ALL
```

```
# Members of the admin group may gain root privileges
```

```
%admin ALL=(ALL) ALL
```

```
# Allow members of group sudo to execute any command
```

```
%sudo ALL=(ALL:ALL) ALL
```

```
# See sudoers(5) for more information on "#include" directives:
```

```
#includedir /etc/sudoers.d
```

#fungsi tambahan blokir lewa app logwebmin

```
www-data ALL=(ALL) NOPASSWD: /usr/local/bin/block-ip.sh
```

```
www-data ALL=(ALL) NOPASSWD: /usr/local/bin/unblock-ip.sh
```

7. Jalankan service daemon

```
sudo systemctl daemon-reload
```

```
sudo systemctl restart ipblock.socket ipblock.service
```

```
sudo systemctl enable ipblock.socket
```

8. Verifikasi service

```
sudo systemctl status ipblock.service
```

```
journalctl -u ipblock.service -f
```

9. Pastikan anda telah mendaftar akun pada <https://www.maxmind.com/>

untuk mendapatkan license-key seperti pada contoh berikut:



License Keys

If you have purchased web services, your license key may be used to [query them](#). If you have purchased GeoIP databases, your license key can be used to [automate the database downloads](#).

Generating a new license key will not disable existing keys. You can have a maximum of 100 active license keys at one time.

Before removing a license key from your account, please be sure to update your integration so that it is no longer in use. [Learn more about replacing your license keys on our knowledge base](#). You will not be able to re-activate a key once it has been removed.

We hash your license keys for security purposes, and as a result, we only display the first six characters of each key. This means that MaxMind does not have the ability to view your license keys in full. A license key is displayed, in full, only once to whomever generates it.

Account ID: 1161951					
Description	License key	Key created	Created by	Last used	
License Key #0	qo7jtL...	2025-04-29 08:54:51 UTC	friscia.anthony@gmail.com	—	 

[Generate new license key](#)

agar dapat diinisiasikan pada .env

```
1 APP_NAME=Laravel
2 APP_ENV=production
3 APP_KEY=base64 :6Nfn6cKTJBemSHH99Cn5Kb7e8u0sVuYCGHjvtg0/rLQ=
4 APP_DEBUG=true
5 APP_URL=http://localhost
6 MAXMIND_LICENSE_KEY=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
```

Revisi #17

Dibuat 20 Mei 2025 00:10:59 oleh Friscia Anthony

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