

CYBER-SoC SOFTWARE

CYBERSOC PLATFORM KYA HAI?

CyberSOC Platform ek AI-powered Security Operations Center (SOC) solution hai jo real-time threat detection, automated response aur security monitoring provide karta hai. Yeh ek lightweight aur open-source platform hai jo Small aur Medium Businesses (SMBs) ko enterprise-level security provide karta hai bina expensive infrastructure ke.

KEY FEATURES

- **Real-Time Attack Detection** – 24/7 automated monitoring.
- **8 Attack Types Detection** – Mukhtalif **cyber attacks detect** karta hai.
- **Auto-Blocking** – Malicious IPs ko foran block karta hai.
- **Email Alerts** – Team ko instant notifications bhejta hai.
- **Evidence Collection** – Forensic evidence JSON format mein save karta hai.
- **Live Dashboard** – Real-time security monitoring provide karta hai.
- **Zero Cost** – Open-source aur bilkul free.

CYBERSOC KIN ATTACKS KO DETECT KARTA HAI?

- **SQL Injection (Critical)** – Database compromise ki koshish detect karta hai.
- **Cross-Site Scripting (XSS) (High)** – Script injection attacks detect karta hai.
- **DDoS (Critical)** – Service flooding attacks detect karta hai.
- **Brute Force (High)** – Multiple login attempts detect karta hai.
- **Malware (Critical)** – Trojan, Virus aur Ransomware detect karta hai.
- **Port Scan (Medium)** – Network reconnaissance identify karta hai.
- **Path Traversal (High)** – Unauthorized file access attempts detect karta hai.
- **Suspicious Activity (Medium)** – Ghair mamooli activities detect karta hai.

CYBERSOC KAISE KAAM KARTA HAI?

Jab koi attack detect hota hai to system sab se pehle attack ki type identify karta hai aur uski severity assess karta hai. Agar attack **Critical** ya **High** severity ka ho to attacker ki IP automatically block kar di jati hai. Is ke baad attack ka evidence JSON format mein save hota hai, security team ko email alert bheja jata hai aur dashboard real-time update ho jata hai.

INSTALLATION GUIDE

CyberSOC install karne ke liye sab se pehle system mein Node.js, MongoDB ya MongoDB Atlas, Git aur Gmail account hona zaroori hai. Is ke baad repository clone karein, backend aur frontend ki dependencies install karein aur .env file configure karein. MongoDB Atlas ki connection string aur Gmail App Password add karne ke baad backend aur frontend run karein. Installation complete hone ke baad dashboard browser mein access kiya ja sakta hai.

Prerequisites

Installation shuru karne se pehle ensure karein ke aap ke system mein ye cheezen available hon:

- Node.js (Version 18 ya us se upar)
- MongoDB (Version 6+) ya MongoDB Atlas
- Git
- Gmail Account (Email Alerts ke liye)
- Internet Connection
- Kam az kam 1 GB Free RAM
- Kam az kam 5 GB Free Storag

Step 1: Repository Clone Karein

Sab se pehle GitHub repository clone karein.

```
git clone https://github.com/GA177CODER/software-developing.git  
cd software-developing
```

Step 2: Backend Setup

Backend folder mein ja kar dependencies install karein.

```
cd backend  
npm install
```

Ab backend folder ke andar **.env** file create karein aur neeche di gayi configuration add karein.

```
PORT=5000  
NODE_ENV=development  
MONGODB_URI=your_mongodb_connection_string  
EMAIL\_USER=your-email@gmail.com  
EMAIL_PASS=your-app-password  
JWT_SECRET=your_secret_key  
DASHBOARD_URL=http://localhost:3000
```

Step 3: Frontend Setup

Project ke frontend folder mein ja kar dependencies install karein.

```
cd frontend  
npm install
```

Step 4: MongoDB Atlas Setup (Free)

Agar local MongoDB use nahi kar rahe to MongoDB Atlas configure karein.

- MongoDB Atlas par account create karein.
- Free Cluster (M0 Sandbox) create karein.
- Database User create karein aur username/password save kar lein.
- Network Access mein **0.0.0.0/0** add karein.

- Cluster ki Connection String copy karein.
- Is connection string ko .env file ke **MONGODB_URI** mein paste kar dein.

Step 5: Gmail App Password Setup

Email alerts receive karne ke liye Gmail configure karein.

- Gmail account mein **2-Step Verification** enable karein.
- Google Account se **App Password** generate karein.
- Generate hua **16-digit App Password** .env file ke **EMAIL_PASS** mein paste karein.

Step 6: Backend Run Karein

Ek terminal open karein aur backend start karein.

```
cd backend  
npm start
```

Step 7: Frontend Run Karein

Dusra terminal open karein aur frontend start karein.

```
cd frontend  
npm start
```

INSTALLATION COMPLETE

Agar tamam steps sahi tarah follow kiye gaye hain to CyberSOC Platform successfully install ho jayega aur dashboard par offline ki jagah online show honi chahiye ta kae confirm ho backend connect ho chuka hai

I HOPE YAE PROJECT 100% IN WORKING HAI
WE PROVIDES BEST SECURITY FOR OUR CLIIENTS

رَبِّ زِدْنِي عِلْمًا

**EVERY DEFEAT AND SUCESS
COMES FROM ONLY ALLAH**

ALL CREDIT GOES TO
SYED GHOUS