



AI Security Operations Center

Panduan Lengkap Pengguna & Dokumentasi

Panduan komprehensif untuk instalasi, konfigurasi, dan penggunaan platform
AISOC MCP.
Dari nol hingga mahir - semua yang Anda butuhkan untuk deploy dan operasikan
AI-powered Security Operations Center Anda.

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Repository: github.com/urtir/AISOC-MCP

Teknologi: Python 3.8+ • FastMCP • Wazuh SIEM • LM Studio • Telegram Bot

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AISOC MCP - AI Security Operations Center

AI-Powered Security Management Platform with Model Context Protocol

![[Python]](<https://python.org>)

![[FastMCP]](<https://github.com/phdowling/fastmcp>)

![[Wazuh]](<https://wazuh.com>)

![[Telegram]](<https://telegram.org>)

![[LM Studio]](<https://lmstudio.ai>)

Daftar Isi

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Pengenalan

AISOC MCP (AI Security Operations Center - Model Context Protocol) adalah platform manajemen keamanan terdepan yang mengintegrasikan **Wazuh SIEM** dengan **AI-powered analysis** menggunakan **FastMCP protocol**. Platform ini menyediakan monitoring keamanan real-time, analisis log yang cerdas, dan deteksi ancaman otomatis.

■ **Mengapa AISOC MCP?**

- **AI-Native:** Built-in AI untuk analisis keamanan
- **Real-time:** Monitoring dan alerting langsung
- **Smart Analysis:** RAG + CAG untuk analisis kontekstual
- **Multi-Interface:** Web, Telegram, dan API
- **Privacy-First:** AI lokal dengan LM Studio
- **Comprehensive:** 29 tools terintegrasi

Fitur Utama

■ **Core Components**

Komponen	Deskripsi	Status
FastMCP Server	AI-powered security analysis dengan 29 tools	Ready
Web Dashboard	Interactive interface dengan chat AI	Ready
Telegram Bot	Real-time alerts & Q&A capabilities	Ready
Database System	Comprehensive logging & caching	Ready
Config Manager	Centralized configuration dengan validasi	Ready

AI Capabilities

- **RAG (Retrieval-Augmented Generation):** Analisis keamanan berbasis konteks
- **CAG (Cache-Augmented Generation):** Sistem caching cerdas untuk performa optimal
- **Semantic Search:** Analisis log berbasis vector dan similarity search
- **LM Studio Integration:** Deployment AI model lokal untuk privasi maksimal

Security Features

- **Real-time Monitoring:** Analisis security event berkelanjutan
- **Automated Alerting:** Deteksi ancaman dan notifikasi cerdas
- **Log Analysis:** Analisis log keamanan berbasis AI
- **Report Generation:** Laporan PDF otomatis dengan insight keamanan
- **Agent Management:** Monitoring agent Wazuh yang komprehensif

Arsitektur

```
graph TB
  A[Wazuh SIEM] --> B[FastMCP Server]
  B --> C[AI Engine - LM Studio]
  B --> D[Database SQLite]
  B --> E[Web Dashboard]
  B --> F[Telegram Bot]
  C --> G[RAG System]
  C --> H[CAG Cache]
  E --> I[Chat Interface]
  E --> J[Admin Panel]
  F --> K[Real-time Alerts]
  F --> L[PDF Reports]
```

■ ****Struktur Project****

```
AISOC MCP/ ■■■ ■ src/ ■ ■■■ api/ ■ ■ ■■■ wazuh_fastmcp_server.py # ■
Core FastMCP server ■ ■ ■■■ wazuh_realtime_server.py # ■ Real-time
monitoring ■ ■■■ webapp/ ■ ■ ■■■ webapp_chatbot.py # ■ Main web app ■ ■
■■■ admin.py # ■■ Admin interface ■ ■ ■■■ templates/ # ■ HTML templates
■ ■■■ telegram/ ■ ■ ■■■ telegram_security_bot.py # ■ Bot utama ■ ■ ■■■
telegram_report_generator.py # ■ Report generator ■ ■■■ database/ # ■
Database utilities ■■■ ■■ config/ ■ ■■■ config_manager.py # ■■
Configuration manager ■ ■■■ config.json # ■ Main config ■■■ ■ data/ ■
■■■ chat_history.db # ■ Chat database ■ ■■■ wazuh_archives.db # ■ Wazuh
logs ■■■ ■ docs/ # ■ Dokumentasi lengkap ■■■ ■ tests/ # ■ Testing suite
■■■ ■ cag_cache/ # ■ AI knowledge cache

---
```

Prerequisites

■ ****System Requirements****

- **OS:** Windows 10/11, Linux, macOS
- **Python:** 3.8 atau lebih tinggi
- **RAM:** Minimum 8GB (Recommended 16GB+)
- **Storage:** 10GB free space
- **Network:** Internet connection untuk setup awal

■ ****Required Software****

Software	Versi	Deskripsi
Python	3.8+	Runtime environment
Wazuh Manager	4.x+	SIEM platform
LM Studio	Latest	Local AI inference
Git	Latest	Version control

■ ****API Keys & Tokens****

- **Telegram Bot Token** (dari @BotFather)
- **Wazuh API Credentials**
- **LM Studio API Key** (jika diperlukan)

Instalasi

Step 1: Clone Repository

```
# Clone repository git clone https://github.com/urtir/AISOC-MCP.git cd AISOC-MCP
```

Step 2: Setup Python Environment

```
# Buat virtual environment python -m venv aisoc_env # Aktivasi virtual environment # Windows PowerShell: .\aisoc_env\Scripts\Activate.ps1 # Windows CMD: # aisoc_env\Scripts\activate.bat
```

Step 3: Install Dependencies

```
# Upgrade pip python -m pip install --upgrade pip # Install requirements pip install -r requirements.txt # Verify installation pip list
```

Step 4: Setup LM Studio

1. **Download & Install:** LM Studio
2. **Download Model:** Pilih model seperti qwen2.5-1.5b atau llama-3.2-1b
3. **Start Server:** Jalankan server di `http://localhost:1234`

Step 5: Setup Wazuh

```
# Install Wazuh (Linux example) curl -sO https://packages.wazuh.com/4.x/wazuh-install.sh sudo bash ./wazuh-install.sh -a # Verify Wazuh is running curl -k -X GET "https://localhost:55000/" -H "Authorization: Bearer $TOKEN"
```

Step 6: Database Migration

```
# Migrate database python migrate_database.py # Verify database python tests/check_db.py
```

Konfigurasi

Step 1: Environment Variables

Buat file `.env` di root directory:

```
# LM Studio Configuration LM_STUDIO_BASE_URL=http://localhost:1234/v1 LM_STUDIO_API_KEY=lm-studio LM_STUDIO_MODEL=qwen2.5-1.5b-instruct # Wazuh Configuration WAZUH_API_URL=https://localhost:55000 WAZUH_USERNAME=wazuh-wui WAZUH_PASSWORD=YourSecurePassword123 # Flask
```

```
Configuration FLASK_HOST=127.0.0.1 FLASK_PORT=5000
FLASK_SECRET_KEY=your-super-secret-key-here # Telegram Configuration
TELEGRAM_BOT_TOKEN=1234567890:ABCdefGhIjKlMnOpQrStUvWxYz
TELEGRAM_CHAT_ID=your-chat-id
```

Step 2: Config.json Setup

Edit config/config.json:

```
{ "services": { "fastmcp_server": { "enabled": true, "host": "127.0.0.1",
"port": 8000, "lm_studio_url": "http://localhost:1234/v1" }, "web_app": {
"enabled": true, "host": "127.0.0.1", "port": 5000, "debug": false },
"telegram_bot": { "enabled": true, "token": "${TELEGRAM_BOT_TOKEN}",
"admin_chat_id": "${TELEGRAM_CHAT_ID}" } }, "wazuh": { "api_url":
"${WAZUH_API_URL}", "username": "${WAZUH_USERNAME}", "password":
"${WAZUH_PASSWORD}", "verify_ssl": false } }
```

Step 3: Telegram Bot Setup

1. Buat Bot:

- Chat dengan [@BotFather](https://t.me/BotFather)
- Kirim /newbot
- Ikuti instruksi dan dapatkan token

2. Get Chat ID:

```
# Start bot dulu, lalu jalankan: python tests/test_telegram_alerting.py
```

3. Test Bot:

```
# Test telegram functionality python src/telegram/telegram_security_bot.py
```

Panduan Penggunaan

■ Menjalankan AISOC MCP

Method 1: All-in-One (Recommended)

```
# Start all services python scripts/start_all_services.py
```

Method 2: Manual Service Start

```
# Terminal 1: Start FastMCP Server python src/api/wazuh_fastmcp_server.py
# Terminal 2: Start Web App python src/webapp/webapp_chatbot.py # Terminal
3: Start Telegram Bot python src/telegram/telegram_security_bot.py #
Terminal 4: Start Real-time Monitor python
src/api/wazuh_realtime_server.py
```

■ Verifikasi Services

1. Check FastMCP Server

```
# Test FastMCP tools python tests/test_tool_definition.py
```

2. Check Web Application

- Browse ke: `http://localhost:5000`
- Login dengan default credentials
- Test chat interface

3. Check Telegram Bot

- Start chat dengan bot
- Kirim `/start`
- Test command `/help`

4. Check Database

```
# Verify database integrity python tests/check_db.py
```

Konfigurasi utama dilakukan melalui file `config/config.json`:

```
{ "lm_studio": { "base_url": "http://192.168.56.1:1234/v1", "api_key":  
"lm-studio", "model": "qwen/qwen3-1.7b" }, "wazuh": { "api_url":  
"https://localhost:55000", "username": "wazuh-wui", "password":  
"your-password", "verify_ssl": false }, "flask": { "host": "127.0.0.1",  
"port": 5000, "debug": false, "secret_key": "your-secret-key" },  
"telegram": { "bot_token": "your-bot-token", "chat_id": "your-chat-id" } }
```

Detailed Configuration

Untuk konfigurasi lengkap, lihat:

- `docs/COMPLETE_VARIABLES_LIST.md` - Daftar lengkap variabel konfigurasi
- `docs/HARDCODED_CONFIG_ANALYSIS.md` - Analisis konfigurasi hardcoded

Web Interface

1. **Access Dashboard:** `http://localhost:5000`
2. **Login** dengan kredensial yang dikonfigurasi
3. **Monitor** security events di dashboard
4. **Generate Reports** melalui menu reporting

Telegram Bot

1. **Start Bot:** Jalankan `src/telegram/telegram_security_bot.py`
2. **Add Bot** ke grup Telegram Anda
3. **Subscribe** untuk notifikasi real-time
4. **Query Logs** dengan perintah natural language

API Access

FastMCP server menyediakan tools untuk:

- `check_wazuh_log` - Query dan analisis log keamanan
- `list_agents` - Daftar dan kelola agents
- `get_api_info` - Informasi API Wazuh
- Dan banyak tools lainnya...

Core Documentation

- `docs/FastMCP_Documentation.md` - Dokumentasi FastMCP lengkap
- `docs/Wazuh_API_Documentation.md` - Dokumentasi Wazuh API
- `docs/CACHE_AUGMENTED_GENERATION_CAG.md` - Implementasi CAG

System Documentation

- `docs/ALERT_SYSTEM_README.md` - Sistem alert real-time
- `docs/RAG_TO_CAG_MIGRATION.md` - Migrasi dari RAG ke CAG

Technology Stack

- **Backend:** Python 3.10+ dengan FastAPI dan Flask
- **Database:** SQLite untuk storage lokal
- **AI/ML:** LM Studio dengan local LLM models
- **Protocol:** FastMCP untuk AI tool integration
- **Frontend:** HTML5, CSS3, JavaScript dengan modern UI components
- **Integration:** Wazuh API, Telegram Bot API

System Components

1. `wazuh_fastmcp_server.py` - Core FastMCP server dengan Wazuh integration
2. `webapp_chatbot.py` - Main web application
3. `telegram_security_bot.py` - Telegram bot untuk notifikasi
4. `wazuh_realtime_server.py` - Real-time data fetching service
5. `config_manager.py` - Centralized configuration management

Database Schema

- `chat_history.db` - User chat sessions dan history
- `wazuh_archives.db` - Cached Wazuh logs untuk fast querying

Important Security Settings

1. **Change Default Passwords** - Ganti semua password default
2. **SSL/TLS Configuration** - Aktifkan SSL untuk production
3. **API Authentication** - Konfigurasi autentikasi yang kuat
4. **Network Security** - Batasi akses network sesuai kebutuhan

Security Features

- **Local AI Processing** - Semua AI processing dilakukan secara lokal
- **Encrypted Storage** - Sensitive data di-encrypt
- **Access Control** - Role-based access control
- **Audit Logging** - Comprehensive audit trails

Run Tests

```
# Run all tests python -m pytest tests/ # Run specific test python -m  
pytest tests/test_wazuh_api.py # Run with coverage python -m pytest  
--cov=src tests/
```

Test Components

- Unit tests untuk core functions
- Integration tests untuk API endpoints
- End-to-end tests untuk web interface

Contributing

Development Workflow

1. **Fork** repository ini
2. **Create branch** untuk feature Anda:

```
git checkout -b feature/amazing-feature
```

3. **Install development dependencies:**

```
pip install -r requirements.txt
```

4. **Make changes** dan tambahkan tests
5. **Submit pull request**

Code Quality

- Follow PEP 8 style guidelines
- Add docstrings untuk semua public functions
- Include tests untuk new features
- Update documentation sesuai kebutuhan

System Requirements

- **RAM:** Minimum 4GB, Recommended 8GB+
- **Storage:** 10GB free space untuk logs dan cache
- **CPU:** Multi-core processor recommended
- **Network:** Stable connection ke Wazuh manager

Optimization Features

- **Database Indexing** - Optimized database queries
- **Caching Layer** - CAG caching untuk AI responses
- **Async Processing** - Asynchronous operations
- **Connection Pooling** - Efficient database connections

Common Issues

1. LM Studio Connection Error

- Pastikan LM Studio running di URL yang benar
- Check model sudah di-load
- Verify network connectivity

2. Wazuh API Authentication Failed

- Verify username/password di `config/config.json`
- Check Wazuh manager accessibility
- Validate SSL configuration

3. Database Connection Issues

- Check database file permissions
- Run migration script: `python migrate_database.py`
- Verify SQLite installation

Debug Mode

Enable debug mode untuk troubleshooting:

```
# Edit config/config.json { "flask": { "debug": true } } # Start application python src/webapp/webapp_chatbot.py
```

This project is licensed under the MIT License - see the `LICENSE` file for details.

- **Wazuh Team** - Untuk SIEM platform yang powerful
- **FastMCP Community** - Untuk Model Context Protocol
- **LM Studio** - Untuk local AI inference solution
- **Python Community** - Untuk ecosystem yang luar biasa

Untuk support dan pertanyaan:

- **Issues:** [GitHub Issues](https://github.com/urtir/LMS-MCP/issues)
- **Discussions:** [GitHub Discussions](https://github.com/urtir/LMS-MCP/discussions)
- **Documentation:** Check `docs` directory
- **Repository:** [GitHub Repository](https://github.com/urtir/LMS-MCP)

Version 2.0 (Planned)

- [] Multi-tenant support
- [] Advanced AI models integration
- [] Cloud deployment options
- [] Mobile application
- [] Advanced analytics dashboard

Version 1.5 (In Progress)

FastMCP Tools

AISOC MCP menyediakan **29 Tools** yang terintegrasi:

Core Tools

Tool	Deskripsi	Usage
check_wazuh_log	AI-powered log analysis	High-level security analysis
get_agent_info	Detailed agent information	Agent management
get_agent_stats	Agent statistics	Performance monitoring
get_security_events	Security event analysis	Threat detection
get_critical_alerts	Critical alert identification	Priority response

Analysis Tools

Tool	Deskripsi	Usage
search_logs_semantic	Vector-based log search	Advanced search
get_hybrid_search	CAG + Semantic combined	Best results
analyze_attack_patterns	Attack pattern detection	Threat hunting
get_vulnerability_summary	Vulnerability assessment	Risk analysis
generate_security_report	Automated reporting	Documentation

Monitoring Tools

Tool	Deskripsi	Usage
get_system_health	System health status	Infrastructure monitoring
get_agent_status	Real-time agent status	Connectivity check
get_rule_statistics	Rule firing statistics	Performance tuning
get_decoder_info	Log decoder information	Log parsing
get_cdb_info	CDB list information	Configuration management

Advanced Tools

Tool	Deskripsi	Usage
execute_wql_query	Wazuh Query Language	Custom queries
get_rootcheck_scan	Rootkit detection	Security scanning
get_sca_scan	Security compliance	Compliance monitoring
get_syscollector_data	System inventory	Asset management
get_mitre_info	MITRE ATT&CK mapping	Threat classification

Database Schema

■ wazuh_archives.db

```
CREATE TABLE wazuh_logs ( id INTEGER PRIMARY KEY AUTOINCREMENT, timestamp
DATETIME NOT NULL, agent_id TEXT, agent_name TEXT, rule_id INTEGER,
rule_level INTEGER, rule_description TEXT, location TEXT, full_log TEXT,
search_text TEXT, manager TEXT, decoder_name TEXT, status TEXT DEFAULT
'active', created_at DATETIME DEFAULT CURRENT_TIMESTAMP ); -- Indexes for
performance CREATE INDEX idx_timestamp ON wazuh_logs(timestamp); CREATE
INDEX idx_agent_id ON wazuh_logs(agent_id); CREATE INDEX idx_rule_level ON
wazuh_logs(rule_level); CREATE INDEX idx_search_text ON
wazuh_logs(search_text);
```

■ chat_history.db

```
CREATE TABLE chat_history ( id INTEGER PRIMARY KEY AUTOINCREMENT,
session_id TEXT NOT NULL, user_message TEXT NOT NULL, assistant_response
TEXT NOT NULL, timestamp DATETIME DEFAULT CURRENT_TIMESTAMP, user_id TEXT,
context_data TEXT, response_time REAL, tokens_used INTEGER ); -- Indexes
for chat history CREATE INDEX idx_session_id ON chat_history(session_id);
CREATE INDEX idx_timestamp ON chat_history(timestamp); CREATE INDEX
idx_user_id ON chat_history(user_id);
```

AI Capabilities

■ RAG (Retrieval-Augmented Generation)

```
# Example: Using RAG for security analysis from src.core.rag_system import
WazuhRAG rag = WazuhRAG() result = rag.query("Analisis serangan XSS dalam
24 jam terakhir") # Output: { "analysis": "Ditemukan 15 percobaan XSS
attack...", "severity": "HIGH", "recommendations": ["Block IP sources",
"Update WAF rules"], "related_logs": [...], "confidence": 0.92 }
```

■ CAG (Cache-Augmented Generation)

```
# Example: Using CAG for performance from src.core.cag_system import
WazuhCAG cag = WazuhCAG() # First query - generated fresh result1 =
cag.query("Top 10 attacking IPs today") # Second query - retrieved from
cache (faster) result2 = cag.query("Top 10 attacking IPs today") # ■ From
cache
```

Semantic Search

```
# Example: Semantic log search from src.core.semantic_search import
SemanticLogSearch searcher = SemanticLogSearch() results =
searcher.search( query="suspicious login attempts", limit=10,
similarity_threshold=0.8 ) # Results include similarity scores and
relevant contexts for result in results: print(f"Similarity:
{result.similarity:.3f}") print(f"Log: {result.log_content}")
```

Telegram Bot

■ Getting Started

1. **Start Bot:** Kirim `/start` ke bot
2. **Help Menu:** Kirim `/help` untuk melihat semua commands
3. **Setup Alerts:** Konfigurasi notifikasi dengan `/settings`

■ Available Commands

■ Basic Commands

Command	Deskripsi	Example
<code>/start</code>	Initialize bot	<code>/start</code>
<code>/help</code>	Show all commands	<code>/help</code>

Document	Description	Path
FastMCP Guide	MCP protocol implementation	docs/FastMCP_Documentation.md
Wazuh API Guide	Wazuh REST API integration	docs/Wazuh_API_Documentation.md

CAG System	Cache-Augmented Generation	docs/CACHE_AUGMENTED_GENERATION_CAG.md
Alert System	Telegram alerting mechanism	docs/ALERT_SYSTEM_README.md
Variables Guide	Complete configuration list	docs/COMPLETE_VARIABLES_LIST.md

Troubleshooting

■ Common Issues & Solutions

1. Service Won't Start

```
# Problem: FastMCP server fails to start # Solution: Check dependencies
and ports netstat -an | findstr :8000 python -c "import fastmcp;
print('FastMCP installed')" # Problem: LM Studio connection failed #
Solution: Verify LM Studio is running curl http://localhost:1234/v1/models
# Problem: Wazuh API authentication failed # Solution: Check credentials
and SSL curl -k -u "username:password" https://localhost:55000
```

2. Database Issues

```
# Problem: Database lock or corruption # Solution: Reset and migrate
database python tests/vacuum_database.py python migrate_database.py #
Problem: Missing tables or data # Solution: Re-initialize database python
scripts/reset_database.py
```

3. AI/ML Issues

```
# Problem: RAG system not working # Solution: Rebuild embeddings python
scripts/rebuild_embeddings.py # Problem: CAG cache issues # Solution:
Clear and rebuild cache python scripts/clear_cag_cache.py
```

Health Check Commands

```
# Complete system health check python scripts/health_check.py # Individual
service checks python scripts/check_fastmcp.py # FastMCP server python
scripts/check_webapp.py # Web application python scripts/check_telegram.py
# Telegram bot python scripts/check_database.py # Database integrity
python scripts/check_wazuh.py # Wazuh connectivity python
scripts/check_lmstudio.py # LM Studio connection
```

Contributing

Development Workflow

1. Setup Development Environment

```
# Fork repository git clone https://github.com/YourUsername/AISOC-MCP.git
cd AISOC-MCP # Create development branch git checkout -b
feature/your-feature-name # Setup development environment python -m venv
```

```
dev_env .\dev_env\Scripts\Activate.ps1 pip install -r requirements.txt pip
install -r requirements-dev.txt # Development dependencies
```

2. Testing Requirements

```
# All new features must include tests python -m pytest tests/ -v # Unit
tests python -m pytest tests/integration/ -v # Integration tests python -m
pytest --cov=src --cov-report=html # Coverage report
```

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Support & Community

■ Getting Help

- **Email:** support@aisoc-mcp.com
- **Discord:** [\[AISOC MCP Community\]\(https://discord.gg/aisoc-mcp\)](https://discord.gg/aisoc-mcp)
- **Issues:** [\[GitHub Issues\]\(https://github.com/urtir/AISOC-MCP/issues\)](https://github.com/urtir/AISOC-MCP/issues)
- **Docs:** [\[Documentation Portal\]\(https://docs.aisoc-mcp.com\)](https://docs.aisoc-mcp.com)

■ Community

- **Discussions:** [\[GitHub Discussions\]\(https://github.com/urtir/AISOC-MCP/discussions\)](https://github.com/urtir/AISOC-MCP/discussions)
- **Telegram:** [\[@AisocMcpCommunity\]\(https://t.me/AisocMcpCommunity\)](https://t.me/AisocMcpCommunity)
- **Twitter:** [\[@AisocMcp\]\(https://twitter.com/AisocMcp\)](https://twitter.com/AisocMcp)
- **YouTube:** [\[AISOC MCP Tutorials\]\(https://youtube.com/AisocMcp\)](https://youtube.com/AisocMcp)

Roadmap

- **Q4 2025:** Advanced ML models integration
- **Q1 2026:** Multi-tenant support
- **Q2 2026:** Cloud deployment options
- **Q3 2026:** Enterprise features
- **Q4 2026:** Mobile applications

Acknowledgments

Special thanks to:

- **Wazuh Team** - Amazing SIEM platform
- **FastMCP Community** - Model Context Protocol innovation
- **LM Studio** - Local AI inference made easy
- **Python Community** - Incredible ecosystem
- **Security Community** - Continuous feedback and support

Made with ♥ by AISOC MCP Team

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 [GitHub forks](https://github.com/urtir/AISOC-MCP)

 [GitHub watchers](https://github.com/urtir/AISOC-MCP)