

Taisen

**Architecture
Diagram**

ARCHITECTURE DIAGRAM DOCUMENTATION

1.1 System Overview

Frontend Layer:

text

User Browser → Cloudflare CDN/WAF → Netlify Hosting → Search Interface

Application Layer:

text

Search Interface → Firebase Authentication → API Services → Search Processing

Data Layer:

text

Search Processing → Firebase Firestore → Google Sheets → Data Storage

1.2 Security Controls Mapping

Edge Security (Cloudflare):

- DDoS Protection
- Web Application Firewall
- Bot Management
- SSL/TLS Termination
- Rate Limiting

Application Security (Netlify/Firebase):

- Secure Headers Configuration
- CSP Implementation
- Authentication Services
- Database Security Rules
- Input Validation

Data Security (Firebase/Google Sheets):

- Encryption at Rest
- Field-level Encryption
- Access Control Rules
- Backup Encryption
- Data Validation

1.3 Data Flow Security

1. User Request: TLS 1.3 encrypted → Cloudflare WAF
2. Authentication: Firebase Auth with secure tokens
3. Search Processing: Validated inputs, sanitized outputs
4. Data Storage: Encrypted storage with access controls
5. Response Delivery: Secure transmission to user

IMPLEMENTATION CHECKLIST

SECURITY CONFIGURATION VERIFICATION

2.1 Infrastructure Security

- Cloudflare WAF enabled and configured
- DDoS protection active
- TLS 1.3 enforced
- Security headers implemented
- Rate limiting configured
- Bot management enabled

2.2 Application Security

- Input validation implemented
- Output encoding applied
- Authentication secured
- Session management protected
- API security configured
- Error handling secured

2.3 Data Protection

- Encryption at rest enabled
- Encryption in transit enforced
- Access controls configured

- Data classification implemented
- Backup encryption enabled
- Secure deletion procedures

2.4 Monitoring & Response

- Security logging enabled
- Monitoring configured
- Alerting set up
- Incident response plan
- Regular testing scheduled
- Documentation maintained

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[Subject: SECURITY EMERGENCY - Taisen Search Engine]

DOCUMENT MANAGEMENT

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Maintainer: The Taisen Team

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- v1.0: Initial Release (January 2024)
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