

# Web Application Security Analyzer Comprehensive Report

The Web Application Security Analyzer is an automated tool designed to identify vulnerabilities in web applications through dynamic scanning and risk assessment. It provides detailed reports on security flaws, prioritization, and remediation guidance. The analyzer integrates with CI/CD pipelines for continuous monitoring and compliance adherence.

## Overview

- Automated security assessment for web applications
- Targeted at RESTful APIs, web forms, and authentication flows
- Covers OWASP Top 10 vulnerabilities and custom rule sets

## Key Features

- Real-time vulnerability scanning with configurable depth levels
- Extensible vulnerability database with CVE mapping
- Risk scoring algorithm based on impact, exploit likelihood, and remediation complexity

## Scanning Methodology

- Differential analysis of application responses to detect anomalies
- Automated payload injection and fuzzing for input validation testing
- Session management and authentication bypass detection

## Reporting & Analytics

- Interactive dashboards with severity distribution and trend analysis
- Exportable reports in PDF, CSV, and JSON formats
- Historical data tracking for vulnerability recurrence analysis

## Integration & Deployment

- CI/CD pipeline integration via CLI and REST API
- Containerized deployment for Kubernetes and Docker environments
- Support for SaaS platforms and on-premises installations