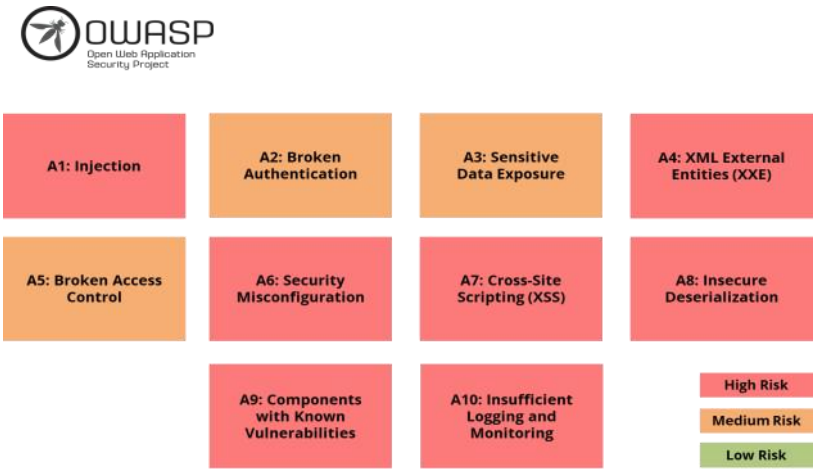
AppDefend for Oracle EBS

Protect the Oracle E-Business Suite from web attacks with AppDefend - an application firewall optimized for the application.

AppDefend™ is an web application firewall (WAF), runtime application self-protection system (RASP), and intrusion prevention system specifically written for the Oracle E-Business Suite. The purpose of AppDefend is to block web attacks against Oracle E-Business Suite before they reach the application. AppDefend is newest generation of intrusion prevention - direct application protection. By directly protecting the application, AppDefend protection is more effective than generic web application firewalls. Utilizing Integrigy's proprietary Deep Request Inspection™ technology, every request and every parameter is analyzed for common web attacks, such as SQL injection, cross-site scripting (XSS), Java deserialization, security misconfigurations, un-validated redirects and forwards and more.



AppDefend incorporates the Top Ten high-risk security principles set by the Open Web Application Security Project (OWASP) for application security.

AppDefend is designed specifically for the application it is protecting. Thus, when implementing for the Oracle E-Business Suite, there is no analysis or other configuration required to provide maximum protection for the application. Integrigy has already performed all this work for you -- all modules, all versions. AppDefend is highly configurable, but is delivered with a pre-defined configuration that requires little modification for most organizations. This allows for a highly effective WAF to be installed rapidly and avoid the lengthy tuning process associated with deploying a generic WAF.

AppDefend reduces the window of vulnerability by providing continuous protection, incorporating updated rules dynamically, and virtual patching of published security vulnerabilities in Oracle's quarterly Critical Patch Updates.

Key Benefits of AppDefend

- *Web Protection* - protects your Oracle EBS from external and internal web attacks
- *Virtual patching* - provides continuous protection for your Oracle EBS applications
- *Complete System* - includes out of the box complete rules for published Oracle EBS security vulnerabilities — no tuning required
- *Reduces application attack surface area* - prevents access to unused application modules and unused web pages
- *Provides alerts* - giving visibility to attempted exploits, suspicious activity, and unwanted activity
- *Satisfies PCI compliance* - WAF requirement 6.6 and application logging requirement 10.2
- *Fast Deployment* - one hour installation and implementation with minimal on-going maintenance
- *Quarterly updates* - keeps AppDefend rules updated against latest security bugs and

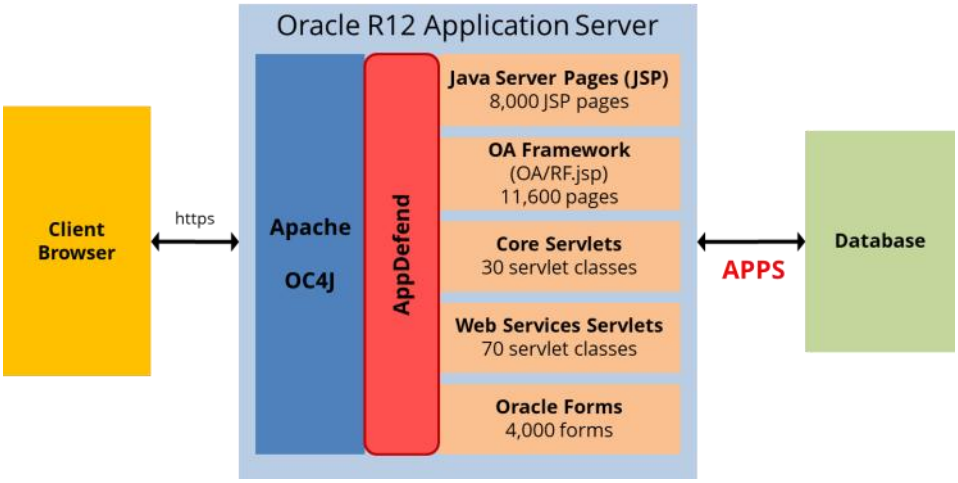
AppDefend

mission critical applications …
… mission critical security

Unique Application Protection

Beyond a web application firewall, AppDefend is able to provide unique protection and security for the application. As an example, AppDefend is able to block access to thousands of unused web pages and servlets when deploying the Oracle E-Business Suite externally in a DMZ. When deploying a module like iSupplier, AppDefend will ensure only the required iSupplier web pages are externally accessible — thus dramatically reducing the surface area of the application from over 250 modules down to one.

AppDefend is implemented as a standard Java Servlet Filter and executes within the Oracle EBS OC4J Java containers. This unique architecture allows AppDefend to access and monitor internal application information such as session state and



internal error messages. By being embedded within the Java container, AppDefend hooks into the Oracle request stream to detect more security anomalies and reduce false positives, unlike any other WAF.

AppDefend examines the incoming request and outgoing response, but can also inspect the internal application context to see application information such as application user names, responsibilities, functions, and internal errors. Using this information, AppDefend can block, alert, log, or sanitize incoming requests or outgoing responses based on over 30 different detection points.

Key Features of AppDefend

- *Blocks common web attacks* - protects against SQL injection and cross site scripting (XSS) attacks
- *Protects web services* - blocks attacks web services (SOA, SOAP, RESTful)
- *Application logging* - provides robust logging of application events
- *Powerful and flexible rule definition* - define new rules to block, monitor, or alert on any type of request or use thresholds for anomaly detection
- *Distributed deployment* - installs on each application server for minimal performance overhead
- Serves as a *mitigating control* - when patches have not be applied

Technical Specifications

Supported Applications

Oracle E-Business Suite 12.2

Oracle E-Business Suite 12.1

Oracle E-Business Suite 12.0

Integrigy Corporation is the leading innovator in security solutions for both mission critical enterprise applications and databases. We provide security expertise, in both consulting and software, to organizations using large ERP and database implementations. Founded in 2001 we are recognized for our in-depth technical knowledge and security proficiency.

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