

AppDefend

Oracle E-Business Suite Enterprise Application Protection

October 2025

mission critical applications ... mission critical security

About Integrigy

ERP Applications

Oracle E-Business Suite and PeopleSoft



Databases

Oracle, Microsoft SQL Server, DB2, Sybase, MySQL, NoSQL

Products

AppSentry

ERP Application and Database Security Auditing Tool

AppDefend

Enterprise Application Protection for Oracle E-Business Suite and PeopleSoft Validates Security

Protects
Oracle EBS
& PeopleSoft

Services

Verify Security Security Assessments

ERP, Database, Sensitive Data, Pen Testing

Ensure Compliance Compliance Assistance

SOX, GDPR, PCI, HIPAA

Build Security Security Design Services

Auditing, Encryption, DMZ

Integrigy Research Team

ERP Application and Database Security Research



Agenda

- 1 AppDefend Overview
- 2 Application Protection and Defense
- 3 Application SSO and MFA
- 4 AppDefend Features
- 5 Q & A

Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Integrigy's products remains at the sole discretion of Integrigy.

Integrigy's Products

AppSentry	 Security scanner for databases, application servers, and ERP packages Performs advanced penetration testing and in-depth security and controls auditing Performs over 1,000+ audits and checks on Oracle products Requires no software to be installed on the target servers
AppDefend	 Application firewall and protection system for ERP packages Blocks common attacks like SQL injection, session hijacking, cross site scripting, and Java deserialization Blocks access to unimplemented application modules and pages Scans all incoming web requests and outbound responses

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- 4 AppDefend Features
- 5 Q & A

Integrigy AppDefend

AppDefend is an enterprise application firewall designed and optimized for the Oracle E-Business Suite.

Prevents Web Attacks
Detects and reacts to SQL Injection, XSS,
and known Oracle EBS vulnerabilities with
hybrid protection using WAF and RASP

Protects Mobile Applications
Detects and reacts to attacks against
Oracle EBS mobile applications

SSO and two-factor (2FA/MFA) Enables SSO and two-factor authentication for login, user, responsibility, or function Limits EBS Modules

More flexibility and capabilities than URL firewall to identify EBS modules

Protects Web Services

Detects and reacts to attacks against native

Oracle EBS web services (SOA, SOAP, REST)

Application Logging Enhanced application logging for compliance requirements like SOX, GDPR, PCI-DSS 10.2

AppDefend Oracle E-Business Suite Support

Oracle E-Business Suite^[1]

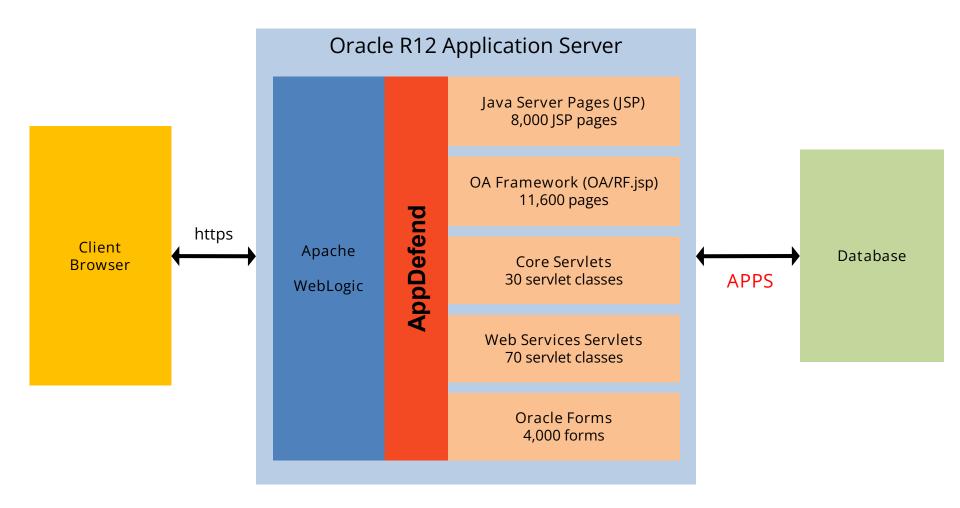
- 12.2.x
- 12.1.x
- 12.0.x

Operating Systems

Supported operating systems

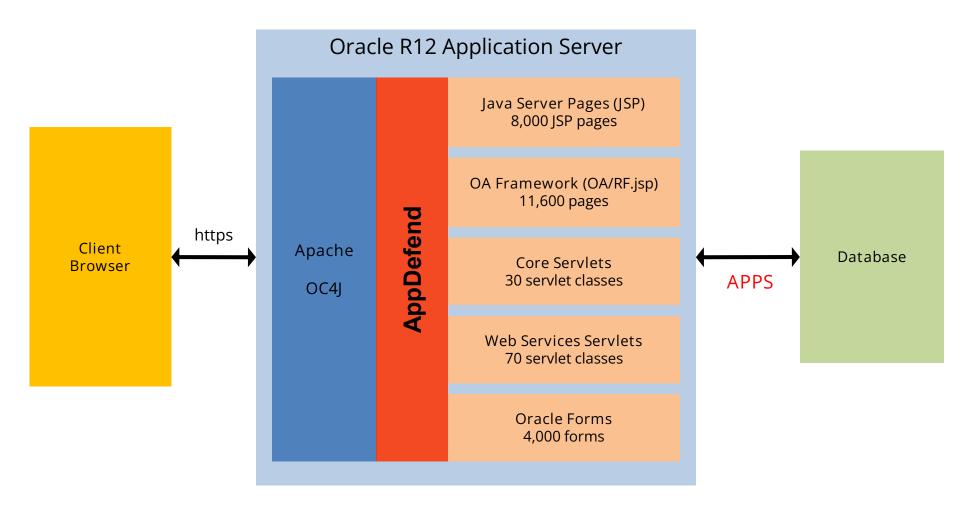
- Linux x86 (Oracle Enterprise Linux, Red Hat Enterprise Linux AS/ES, SuSe)
- Sun SPARC Solaris
- HP PA-RISC HP/UX
- IBM AIX

AppDefend and Oracle EBS 12.2



AppDefend runs within the WebLogic Java containers as a servlet filter and Java agent that monitors all
incoming requests, out-going responses, and key method calls. Being in the Java container, AppDefend
can access all session state, attributes, error messages, EBS APIs, and the database.

AppDefend and Oracle EBS 12.0 & 12.1



 AppDefend runs within the Oracle E-Business Suite OC4J containers as a servlet filter and Java agent that monitors all incoming requests, out-going responses, and key method calls. Being in the OC4J container, AppDefend can access all session state, attributes, error messages, APIs, and the database.

AppDefend Features

Configuration	 Dynamic reloading of configuration files – no restarting of the application server required Disable AppDefend dynamically and log only mode Parallel configurations to support transition to SSO and MFA Rules and configuration files use JSON notation Support for all EBS architectures like shared APPL_TOPs and DMZ servers
Logging and Alerting	 Flexible formatting and destinations Files with periodic or sized-based rotation, size limits Syslog with support for major logging platforms (Splunk, ArcSight, enVision, QRadar, Microsoft Sentinel, AWS CloudWatch, etc.)
Resiliency	 Fail open or closed upon internal errors Fail open or closed upon startup or configuration errors

AppDefend Installation and Updates

Installation	 One hour installation web sessions included with subscription – 15-minute install, 45-minute walk-through Download and install AppDefend binary and rules Customization AppDefend base configuration AutoConfig customization Restart oacore Java container
Updates	 New rules and rule updates – quarterly or as needed Download and unzip appdefend.zip AppDefend dynamically reloads rules
Upgrades	 New features and non-rule fixes – biannual or as needed Download and unzip appdefend.zip Restart oacore Java container

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SQL Injection Explained

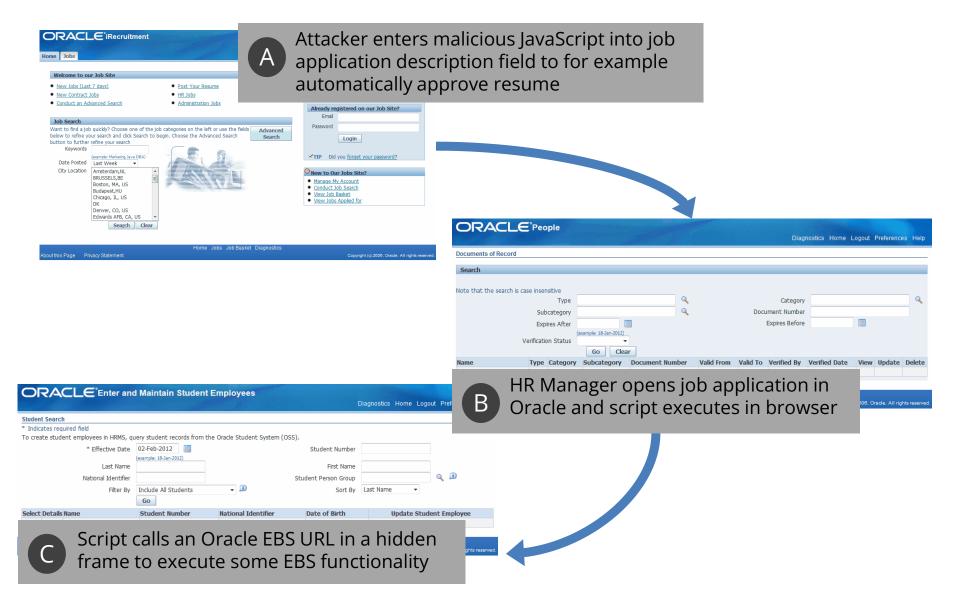
Attacker modifies URL with extra SQL

```
http://<server>/pls/VIS/fnd_gfm.dispatch?p_path=fnd_help.get/US/fnd/@search');%20fnd_user_pkg.updateUser('operations',%20'SEED',%20'welcome1
```

Oracle EBS executes appends SQL to the SQL statement being executed

- SQL executed as APPS database account
- Example changes any application account password

Cross Site Scripting (XSS) Illustrated



Cross Site Scripting – Sample Attacks

```
<script>alert(0)</script>
<img src="x:x" onerror="alert(0)">
<iframe src="javascript:alert(0)">
<object data="javascript:alert(0)">
<isindex type=image src=1 onerror=alert(0)>
<img src=x:alert(alt) onerror=eval(src) alt=0>
with(document)alert(cookie)
eval(document.referrer.slice(10));
(\acute{E}=[\mathring{A}=[],\mu=!\mathring{A}+\mathring{A}][\mu[\grave{E}=-\sim-\sim++\mathring{A}]+(\{\}+\mathring{A})[\varsigma=!!\mathring{A}+\mu,^{a}=\varsigma[\mathring{A}]+\varsigma[+!\mathring{A}],\mathring{A}]+^{a}])()[\mu[\mathring{A}]+\mu[\mathring{A}+\mathring{A}]+\varsigma[\grave{E}]+^{a}](\mathring{A})
</a onmousemove="alert(1)">
data:text/html,<script>alert(0)</script>
%C0%BCscript%C0%BEalert(1)%C0%BC/script%C0%BE
<ScRIPT x src=//0x.lv?
```

Cross Site Scripting References

XSS Cheat Sheet

http://ha.ckers.org/xss.html

WSC Script Mapping Project

http://www.webappsec.org/projects/scriptmapping

OWASP XSS Reference

https://www.owasp.org/index.php/Cross-Site_Scripting

Oracle EBS Security Vulnerabilities

Oracle E-Business Suite security vulnerabilities fixed between
January 2005 and July 2025

1,164

Oracle EBS Web Vulnerabilities Fixed

~150	SQL Injection in web	pages
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- ~640 Cross Site Scripting
- ~90 Authorization/Authentication
- ~60 Business Logic Issues
- ~7 Non-EBS Vulnerabilities

OWASP Top 10 – Oracle E-Business Suite Mapping



Ten top security risks commonly found in web applications listed by level of risk

A1: Broken Access
Control

A2: Cryptographic Failures

A3: Injection

A4: Insecure Design

A5: Security Misconfiguration

A6: Vulnerable and Outdated Components

A7: Identification and Authentication Failures

A8: Software Design and Data Integrity
Failures

A9: Security Logging and Monitoring Failures

A10: Server-side Request Forgery (SSRF) High Risk

Medium Risk

Low Risk

WASC Threat Classification



Web Application
Security
Consortium

Comprehensive list of threats to the security of a web site – attacks and weaknesses

Attacks

Abuse of Functionality

Brute Force

Buffer Overflow

Content Spoofing

Credential/Session Prediction

Cross-Site Scripting

Cross-Site Request Forgery

Denial of Service

Fingerprinting

Format String

HTTP Response Smuggling

HTTP Response Splitting

HTTP Request Smuggling

HTTP Request Splitting

Integer Overflows

LDAP Injection

Mail Command Injection

Null Byte Injection

OS Commanding

Path Traversal

Predictable Resource Location

Remote File Inclusion (RFI)

Routing Detour

Session Fixation

SOAP Array Abuse

SSI Injection

SQL Injection

URL Redirector Abuse

XPath Injection

XML Attribute Blowup

XML External Entities

XML Entity Expansion

XML Injection

XQuery Injection

Weaknesses

Application Misconfiguration

Directory Indexing

Improper File System Permissions

Improper Input Handling

Improper Output Handling

Information Leakage

Insecure Indexing

Insufficient Anti-automation

Insufficient Authentication

Insufficient Authorization

Insufficient Password Recovery

Insufficient Process Validation

Insufficient Session Expiration

Insufficient Transport Layer Protection

Server Misconfiguration

Inherent Risks with Package Software

Structure and vulnerabilities within the application are well known and documented

- An attacker knows exactly what to expect and how the application is structured
- No probing or reconnaissance of the application is required
- Fatal attack can be one URL
- Allows for easy automated attacks

Another Layer of Security

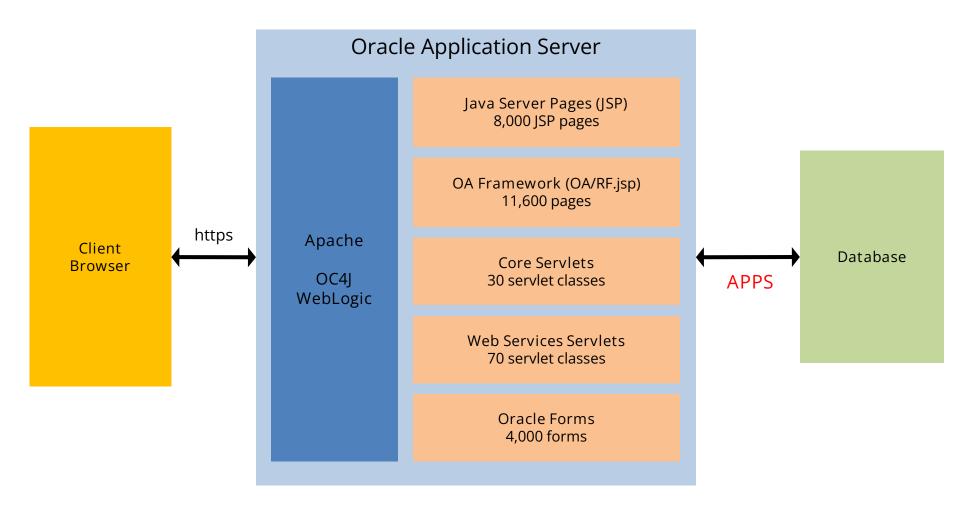
Web Application Firewalls (WAF) are specialized firewalls designed to detect and prevent web application attacks by analyzing the HTTP web requests.

- Prevents common web application attacks
 Detects and blocks SQL injection, XSS, and known vulnerabilities in widely used web applications
- Often implemented as an appliance
 Dedicated appliance used to protect all web applications in an organization
- May be required for compliance such as PCI-DSS
 PCI-DSS 2.0 requirement 6.6 requires use of a WAF or periodic reviews

Web Application Firewall (WAF) Shortcomings

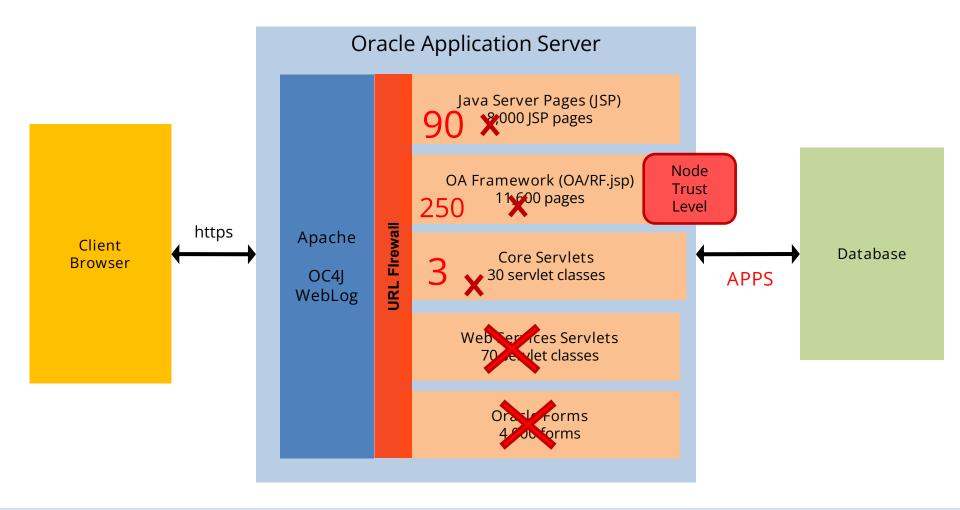
- Must be heavily customized for Oracle EBS
 - No out of the box rules for Oracle EBS no CPU specific rules
 - Unaware for the unique web application architecture of OA Framework
 - Rules, application profiles, and learning must be developed, tuned, and tested by you
 - Oracle EBS is multiple web architectures resulting in additional tuning
- Unable to block unused Oracle EBS modules
 - Due to the complexity of the Oracle naming and design, very difficult to implement blocking of EBS modules with WAF rules
- Significant cost, effort, and skill required to deploy
 - WAFs are usually an appliance that must be deployed and the learning curve for configuring and operating an enterprise WAF is steep
- AppDefend is complementary with an enterprise WAF solution
 - AppDefend can be stand-alone or combined with an existing WAF
 - Multiple layers of defense
 - Enterprise WAF provides general protection and eliminates "noise"
 - AppDefend provides Oracle EBS specific layer of protection

Oracle EBS R12 DMZ Configuration



 All Oracle E-Business Suite environments include ALL modules (250+) and ALL web pages (20,000+) even if modules are not installed, licensed, or configured. Many security vulnerabilities exist in unused modules.

Oracle EBS R12 DMZ Configuration



 Proper DMZ configuration reduces accessible pages and responsibilities to only those required for external access. Reducing the application surface area eliminates possible exploiting of vulnerabilities in non-external modules. (See MOS Note ID 380490.1)

AppDefend Virtual Patching

Eliminate risk and exploitation of the security bug by blocking access to the vulnerable code

- Integrigy analyzes the Oracle Critical Patch Update (CPU)
- Delivers pre-defined rules for CPU web bugs
- Rules may be at the page or field level to block known vulnerabilities

Integrigy Oracle CPU Analysis

For each quarterly Oracle CPU, Integrigy performs an analysis and updates the AppDefend rule set to include virtual patch rules for all external and internal web vulnerabilities

Sample from Integrigy CPU Analysis

CVE ID	Oracle EBS Versions	Vulnerability Information	Recommended Additional Steps and CPU Patch Testing	AppDefend External (DMZ) Rules (rule ID)	AppDefend Internal Rules (rule ID)	AppSentry Detection (check name)
CVE-2013-5890	11.5.10.2	Module: Oracle Payroll – Public Sector Payroll	Basic testing of payroll exception	New request	New request	Vulnerable file
	12.0.6	Sub-Component: Payroll Exception Reporting	report group configuration and	parameter rule	parameter rule	version check
	12.1.1 - 12.1.3	Type: SQL Injection	reporting.	(Rule ID 453)	(Rule ID 453)	(oraappcpu0114)
	12.2.2	Remotely Exploitable without Authentication: No				
		CVSS Metric: 5.5		*Module should		
				be blocked		
		A SQL injection vulnerability in payroll exception				
		report groups.				
CVE-2014-0398	11.5.10.2	Module: Oracle Application Object Library	Ensure FND_DIAGNOSTICS is set	New request	New request	Vulnerable file
	12.0.6	Sub-Component: Discoverer and OBIEE Launcher	to "No" at the site level for all	parameter rule	parameter rule	version check
	12.1.1 - 12.1.3	Type: Information Disclosure and XSS	environments, especially external	(Rule ID 454)	(Rule ID 454)	(oraappcpu0114)
	12.2.2	Remotely Exploitable without Authentication: Yes	facing implementations (i.e.,			
		CVSS Metric: 5.0	iSupplier, iStore, iRecruitment,	*Page should		
			etc.). Review all applications,	be blocked		
		Multiple information disclosure and cross-site	responsibilities, and users where			
		scripting (XSS) vulnerabilities in the launcher for	FND_DIAGNOSTICS is set to "Yes".			
		Discoverer and OBIEE. FND_DIAGNOSTICS has to	2. Test to see if Discoverer and			
		be set to "Yes" in order to exploit most of these	OBIEE launch successfully.			
		vulnerabilities. FND_DIAGNOSTICS should always				
		be set to "No" at the site level for all Oracle EBS				
		environments.				

Deep Request Inspection™

Analyze all user provided input to identify and block malicious input

- Intelligent checking of ALL parameters, user input
- Uses best practice libraries for XSS and SQL injection detection
 - OWASP AntiSamy, Java HTML Sanitizer
 - OWASP ESAPI
- Malicious input may be detected, blocked, or sanitized

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SSO Benefits for Oracle E-Business Suite

- Increase employee and IT productivity
 - Improve user experience by eliminating multiple application logins
 - Better application usability and employee satisfaction by reducing password fatigue
- Reduce IT costs
 - Fewer support calls for password resets and authentication issues
- Improve security
 - Reduce risk of password theft due to password fatigue
 - Enhance password strength with fewer passwords
 - Enables enforcement of stronger and more realistic password policies
- Improve compliance
 - Single point of user termination across applications
 - Simplify user and password management
 - Implement additional account controls like risk-based authentication

Oracle E-Business Suite User Populations – SSO and MFA

AppDefend SSO and MFA can be tailored to specific Oracle EBS user populations and configured with different SSO and MFA methods for each user population. Mix and match SSO and MFA even multiple SSO solutions for different groups of internal users.

	Typical Options for SSO/Authentication	Typical Options for MFA
Internal Users (SSO and/or MFA)	SAML (AD, Azure AD, Okta, etc.)	(1) with SAML (2) DUO, RSA, RADIUS, PKI, and SmartCard
Generic Internal Users (SYSADMIN, BATCH, JOB,)	SAML named user	(1) SAML named user (2) FND_USER named user (3) DUO
External Users – Suppliers (iSupplier)	FND_USER	(1) TOTP (2) SMS (3) Email (4) no MFA
External Users – Candidates/Customers (iRecruitment/iStore)	FND_USER	(1) TOTP (2) SMS (3) Email (4) no MFA

AppDefend SSO Feature (SAML)

- AppDefend adds single sign-on (SSO) for Oracle E-Business Suite
 - SAML 2.0 support for Oracle EBS as a service provider (SP)
 - No additional hardware or servers
 - No additional identity management software
- Direct integration with SAML 2.0 Identity Providers (IdP)
 - Supports any SAML 2.0 IdP such as -

Active Directory On-Premise (ADFS)

Azure AD (Microsoft Azure Active Directory)

Okta

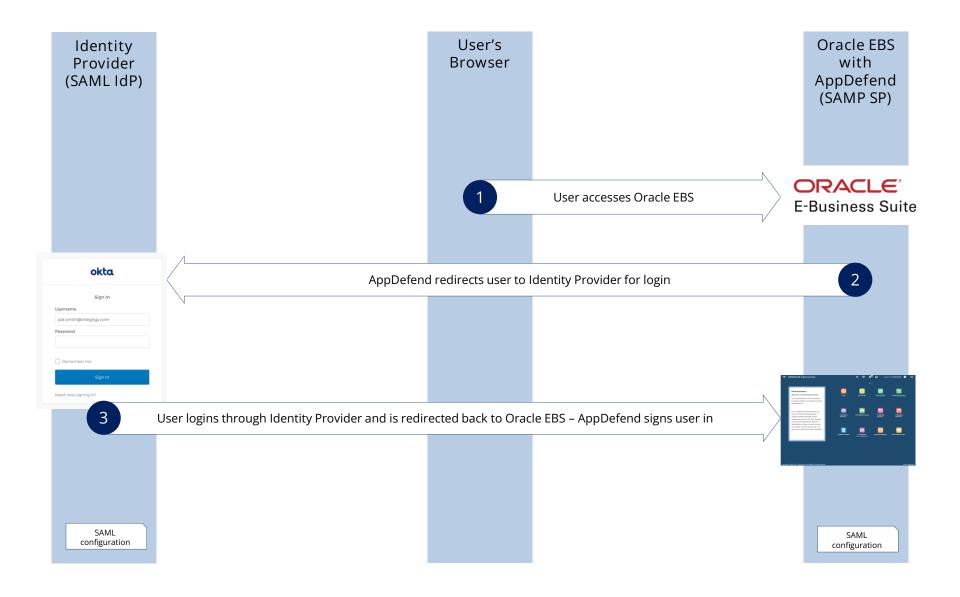
AWS IAM Identity Center

Ping Identity

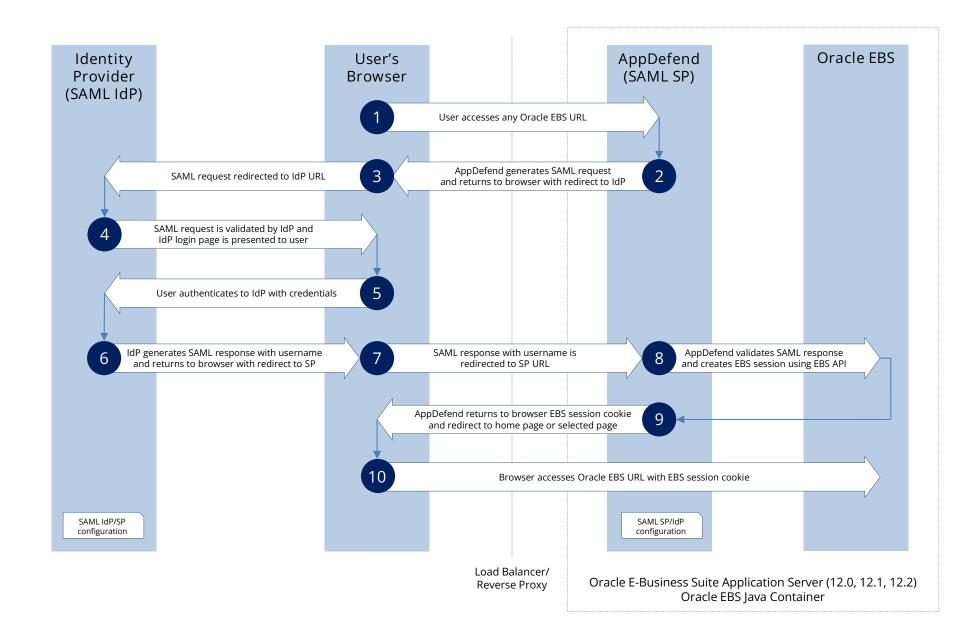
Multiple Modes

- Oracle E-Business Suite SSO Provider (system profile options)
- AppDefend servlet filter
- Direct SSO to Oracle E-Business Suite
- WebADI and EBS mobile applications are fully supported
- Secure Implementation
 - Oracle EBS Session cookie set to "host" rather than "domain"

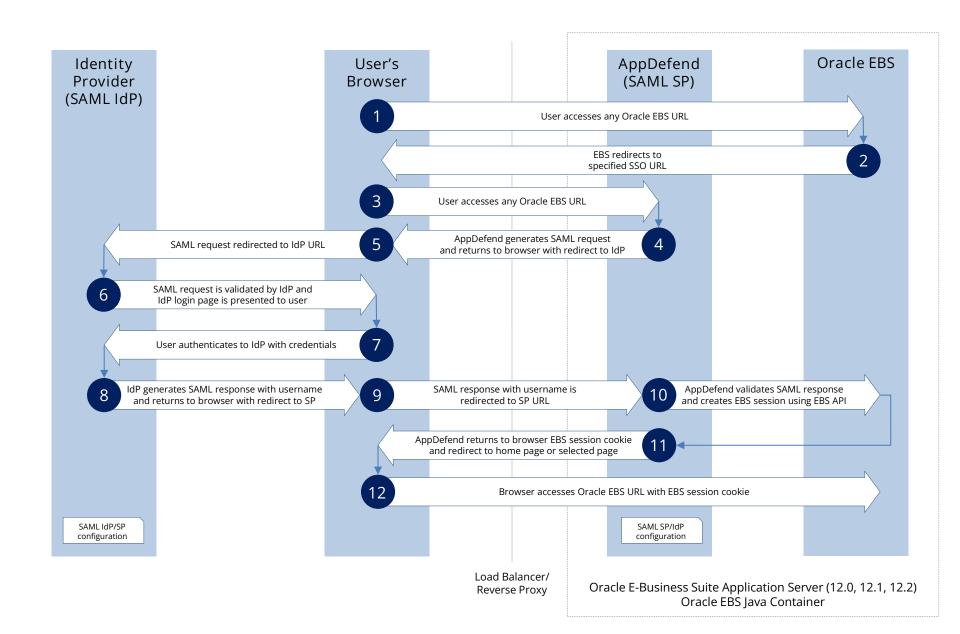
AppDefend SSO SAML Flow – High-level



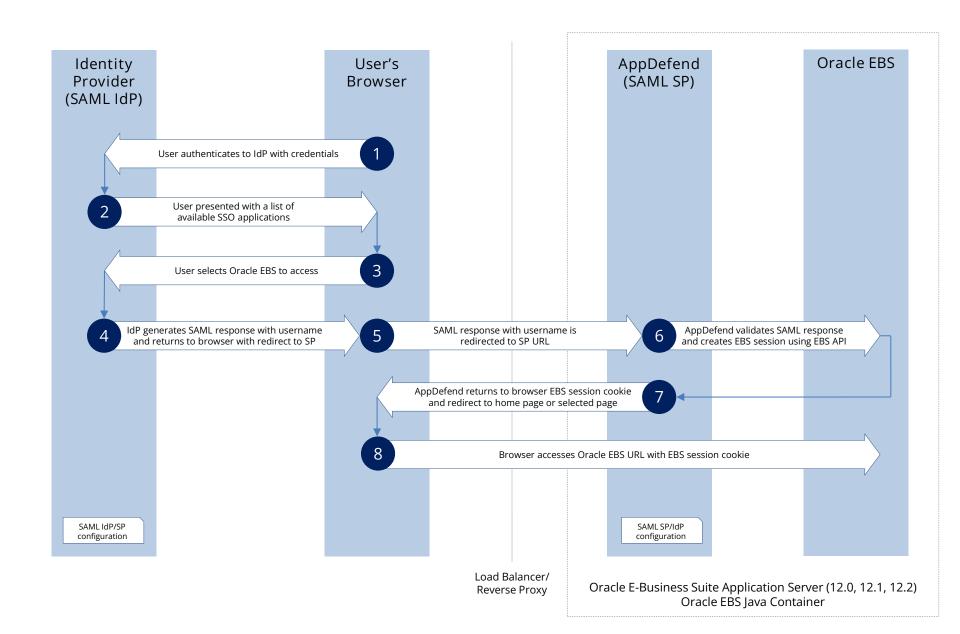
AppDefend SSO SAML Flow



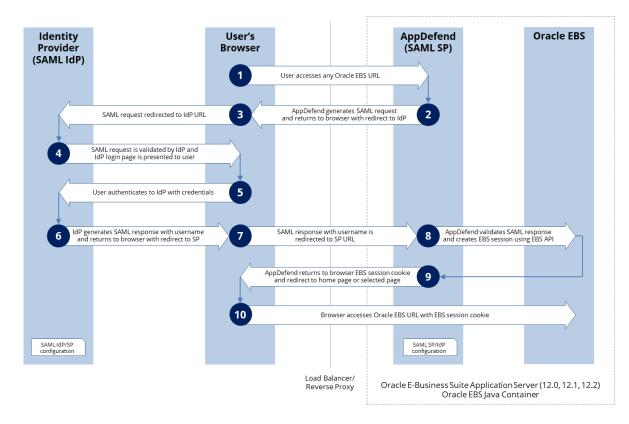
AppDefend SSO SAML Flow (EBS SSO Configuration)



AppDefend SSO SAML Flow (SSO Homepage)



AppDefend SSO SAML Security



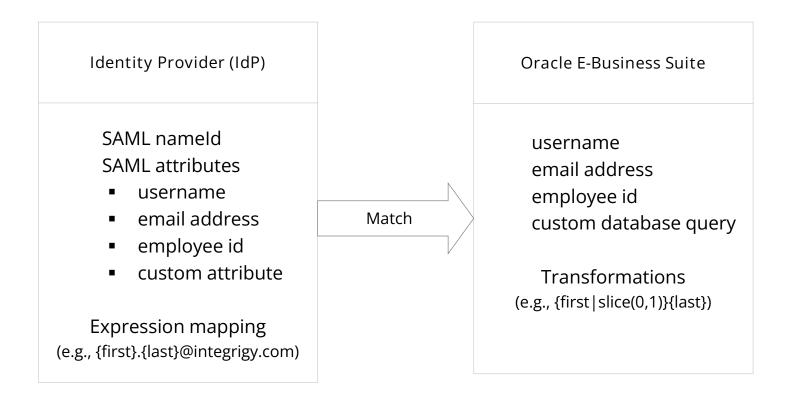
- 9
- AppDefend sets the Oracle EBS session cookie scope to host to prevent session hijacking
- All other Oracle EBS SSO solutions require session cookie scope to be set to domain which allows for potential session hijacking attacks
- 10

AppDefend can maintain a mapping of EBS session cookies to IP address in order to prevent session hijacking attacks

- 1
- AppDefend protects access to all Oracle EBS URLs
- Must be authenticated to access any URLs except specific pages such as iStore or iSupplier registration
- 2
- SAML request is signed (SHA-512 if supported by IdP) and encrypted (AES-256) using IdP public key
- SAML request should be communicated using TLS 1.2 or 1.3 based on your configuration
- 6
- SAML response is signed (SHA-512 if supported by IdP) and encrypted (AES-256) using AppDefend public key
- 8
- AppDefend validates the integrity of the SAML response by decrypting using the AppDefend private key and verifying the signature against the IdP public key
- AppDefend prevents XML entity and schema attacks and by blocking entity tags and whitelisting schemas
- SAML replay attacks are prevented with a narrow expiration window, matching SAML request id for request and response as well as to JSESSIONID, and blocking already accepted assertions

AppDefend SSO SAML User Mapping

AppDefend can map Identity Provider user to Oracle E-Business Suite user using different attributes or values from both the Identity Provider and Oracle E-Business Suite. Multiple match rules can be defined and evaluated per login.

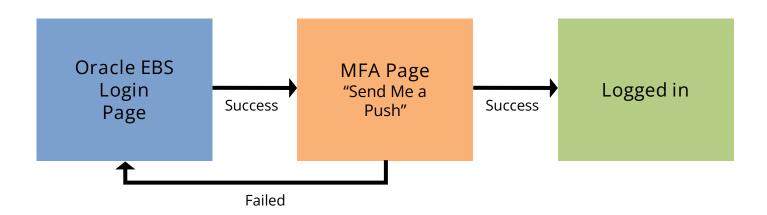


MFA Benefits

- Prevent fraud and phishing attacks
 - Two or more methods of identity verification makes account take-over harder
- Improve security
 - Enable strong authentication
 - Reduce risk of compromised passwords
- Improve compliance
 - PCI-DSS requires MFA required for access in some situations
 - GDPR, HIPAA, and other standards require strong authentication
- Contextualize authentication
 - MFA can be when specific data is accessed or actions performed like employee self-service direct deposit changes

AppDefend Adaptive Multi-Factor Authentication

AppDefend enables adaptive multi-factor authentication (MFA/2FA) for Oracle EBS using DUO Security, TOTP, SMS, email, or PKI (smartcards).



- Multi-Factor Authentication
 Enhances Oracle EBS login security by integrating with 2FA to provide secondary authentication
- Per Page, Responsibility, Function
 Require 2FA when user selects
 or accesses specific pages, responsibilities, or
 functions through menus or directly

AppDefend Two-Factor Authentication

- Application-aware
 - 2FA for login, user, responsibility, function, or page
 - Multiple 2FA authentications can be configured for different use cases and controls
- Context-aware
 - 2FA may be triggered based on session context such as time, location, device, etc.
- Single 2FA request per application session
 - 2FA authentications only when required
- Enhanced logging and audit trail for all authentications
- Supports local EBS authentication or single-signon
- No additional hardware or single point of failure

Two-Factor Authentication Use Cases

Entire Application

- Require 2FA when logging into Oracle EBS

Privileged Responsibilities

- Require 2FA when user accesses specific responsibilities like System Administrator
- Protect highly privileged responsibilities from malicious use

Privileged Users

- Require 2FA when highly privileged users like SYSADMIN login
- Preventative control for privileged, generic users accounts for SOX compliance
- Limit access to generic user accounts by 2FA devices
- Audit trail of named users accessing generic user accounts

High Risk Functions or Pages

- Require 2FA when user access specific functions or pages
- Prevent fraud by requiring 2FA when user accesses self-service HR bank accounts

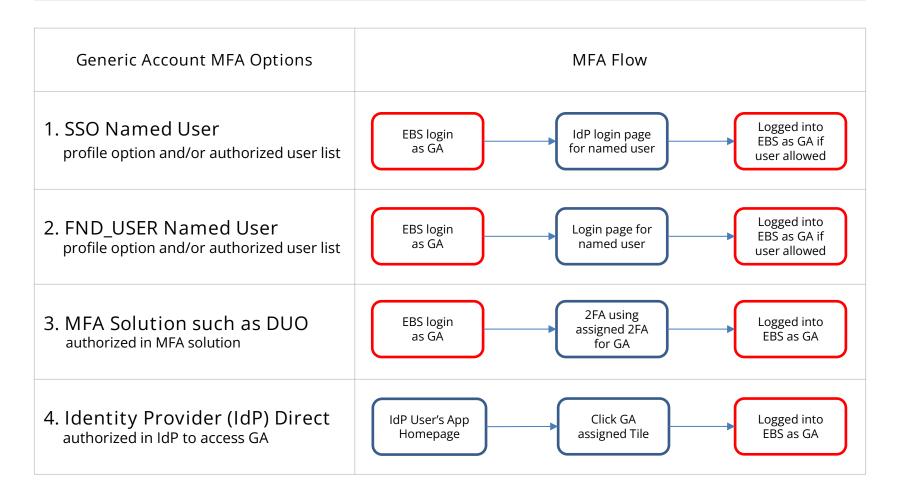
AppDefend MFA

AppDefend provides contextual multi-factor authentication for logins (SSO and non-SSO users, responsibilities, pages, and/or functions. MFA options are Duo Security, TOTP, SMS, and PKI (smartcards).

	Contextual Multi-factor Authentication			
	SSO User Login	Non-SSO User Login	Responsibility	Page/Function
AppDefend MFA (with or without SSO SAML)	✓	✓	✓	✓
AppDefend SSO SAML with IdP MFA	✓			
Legacy Oracle EBS SSO (such as OID/OAM or Oracle IDCS)	✓			

AppDefend Generic Account Protection

AppDefend MFA can be used to protect Oracle E-Business Suite privileged, generic accounts (GA), such as SYSADMIN. Multiple options to protect generic accounts and a different option may be used for each generic account.



AppDefend Generic Account Protection Example Scenarios

A client with about 30 generic accounts used for various purposes configured AppDefend MFA to protect the generic accounts. Scenarios for one generic account to many named users, many generic accounts to one named user, and many generic accounts to many named users can all be easily configured and maintained. All logins including named user are monitored and logged.

Type of Generic Account	Generic Accounts	MFA and AppDefend Configuration
SYSADMIN	SYSADMIN	 Tile in IdP Assigned by IdP group Tightly controlled, limited to DBAs SYSADMIN password not known by DBAs
Job Scheduling	10 accounts, one per module, such as GL_JOB	 One AppDefend rule for all 10 accounts Access controlled using both an authorized user list (DBAs) and profile option set per named user (operations team)
Maintenance/Setups	12 accounts, one per module, such as GL_SETUP	 One AppDefend rule for all 12 accounts Access only allowed if AppDefend EBS maintenance feature is enabled Access controlled using profile option set per named user
Upgrade/Patch Test	6 accounts, such as TEST1	 An AppDefend rule for each of the 6 accounts Access controlled using profile option set per named user and DBA team sets prior to testing as testers will change based on the patches applied AppDefend logging enabled for these accounts to capture all activity

Agenda

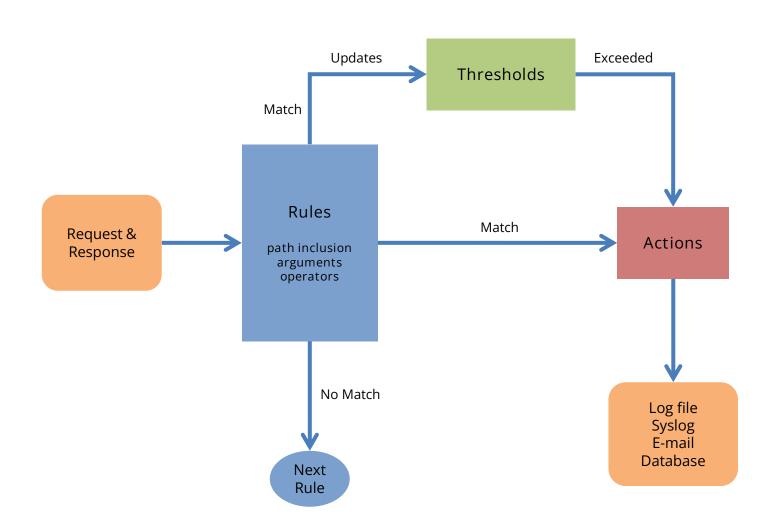
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Application Logging and Auditing

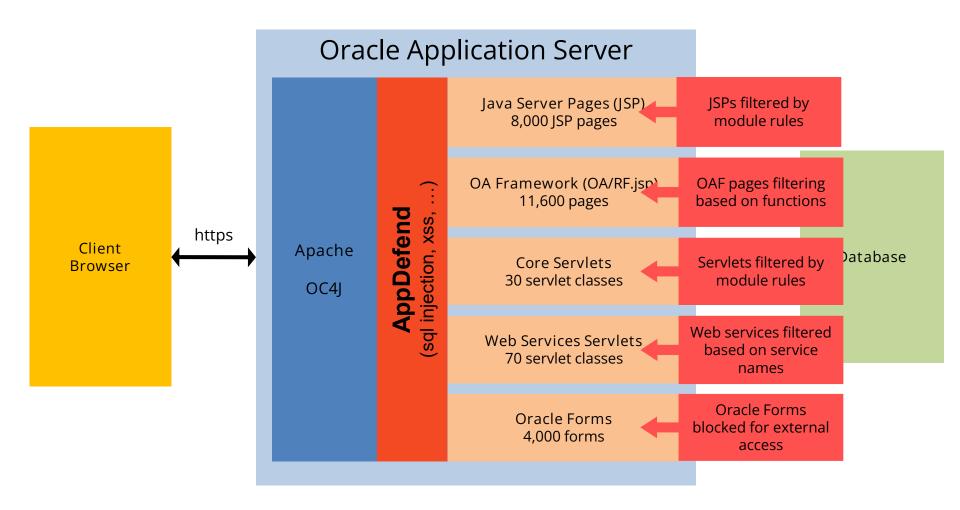
Log and audit key application and security events beyond Oracle EBS current capabilities

- Any page, action, parameter, session attribute may be logged or audited
- PCI logging includes all sessions, responsibilities, and potentially card number access through the application
- Log data can be sent to external systems such as Splunk, ElasticSearch, ArcSight, QRadar, LogRhythm, Microsoft Sentinel, AWS CloudWatch, ...
- Solves gaps in Oracle EBS logging such as IP address for failed logins

AppDefend Processing



AppDefend Permit Rule



AppDefend allows access to only permitted Oracle EBS modules based on a group of white-listed modules. Individual files may be permitted also. Web page and OA Framework customizations are supported.

AppDefend Arguments

AppDefend rules and alerts may use one or more of these arguments.

ebs.function_id	request.header. <name></name>	request.remote_addr
ebs.function_id_all	request.headers.names	request.remote_host
ebs.function_name	request.is_secure	request.remote_port
ebs.resp_id	request.line	request.remote_user
ebs.resp_name	request.local_addr	request.scheme
ebs.user_id	request.local_port	request.server_name
ebs.user_name	request.method	request.server_port
ebs.user_signon_name	request.parameter. <name></name>	request.servlet_path
request.attribute. <name></name>	request.parameters.combined_size	request.servletcontext. <name></name>
request.attributes.names	request.parameters.get_names	request.session_id
request.auth_type	request.parameters.get_values	request.uri
request.body_length	request.parameters.names	request.url
request.character_encoding	request.parameters.put_names	response.content
request.content_length	request.parameters.put_values	response.content_length
request.context_path	request.parameters.values	response.header. <name></name>
request.cookie. <name></name>	request.path_info	response.header.names
request.cookies.names	request.path_translated	session.attribute. <name></name>
request.file_extension	request.protocol	session.attributes.names
request.file_name	request.query_string	

AppDefend Operators

AppDefend rules can use any of these operators.

beginswith

byterange

contains

notcontains

endswith

equals

exists

greater

greatereq

ingroup

notingroup

inlist

notinlist

ipmatch

notipmatch

less

lesseq

regex

within

notwithin

AppDefend Actions

Log	Generates a log entry or alert to a file, syslog, e-mail
Redirect	Redirects the request to a specified full URL or relative URL for the site such as the Oracle EBS error page
Block	Block the request by returning the specified HTTP error code such as 403 Forbidden
Pause	Pause the request for the specified number of milliseconds perhaps to slow down a brute force attack
Sanitize	Sanitize one or all parameters and headers in the request to prevent XSS, HTML injection, or SQL injection
Stop	Stop the processing of all subsequent AppDefend rules. The Stop action is useful to minimize AppDefend analyzing static request such as images, etc.
DoNothing	This action will do nothing as an action

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Integrigy Contact Information

Integrigy Corporation

web - www.integrigy.com

e-mail – info@integrigy.com

blog - integrigy.com/oracle-security-blog

youtube – youtube.com/integrigy