

# Pulse Virtual Web Application Firewall

## Key Capabilities

Proactive Application Security Features	
Baseline Protection	<ul style="list-style-type: none"><li>• Baseline Protection Wizard makes it easy to update policies</li><li>• Known vulnerabilities and attacks are defined by black list and/or regular expressions</li><li>• When a rule or policy is triggered, the request is rejected without exposing the application</li></ul>
Injection Flaws	<ul style="list-style-type: none"><li>• Detect attempts to execute malicious code in a database or script</li><li>• Typically via vectors such as SQL, LDAP or Shell</li><li>• Custom rules can be set to look for application-specific patterns</li></ul>
Secure Session Management	<ul style="list-style-type: none"><li>• Protect user and session data from being exposed through weak links such as session cookies and tokens</li><li>• Enforce controls on user session timeouts and session limits</li><li>• Exchange weak session cookies for a more secure session management.</li></ul>
Secure Application Entry Points	<ul style="list-style-type: none"><li>• Ensure user sessions start at approved entry points</li><li>• Prevent deep linking into applications, enforcing entry points and authentication steps</li></ul>
Cross Site Scripting (XSS)	<ul style="list-style-type: none"><li>• Validation of user-generated input</li><li>• Exclude suspected XSS payloads</li><li>• Create custom rules to trigger on specific XSS patterns</li></ul>
Cross Site Request Forgery (CSRF)	<ul style="list-style-type: none"><li>• Authenticate online forms with a session- based key</li><li>• Prevent cross-site linkage to online forms</li></ul>
Mask Sensitive Data	<ul style="list-style-type: none"><li>• Enforce encryption for data in transit</li><li>• Filter outgoing traffic for data leakage</li><li>• Mask sensitive data such as SSN, Credit Card information</li></ul>

Redirection and Forwarding Attacks

- Enforce fully-qualified URLs to protect against unwanted redirection
- Protect against weak validation of redirection criteria used to trigger malware or phishing attacks
- Define preferred redirection targets to trap attacks