

ORACLE

OCI Web Application Firewall

Increasing cyber attacks

<50%

of companies globally are sufficiently prepared for a cybersecurity attack, according to a report that surveyed 3,000 business leaders from 80 countries

Source: Eurasia Group, 2019

92%

of IT professionals surveyed feel that immaturity in their cloud security programs is creating a readiness gap

Source: Oracle and KPMG Cloud Threat Report, 2020



Exploit data

Steal personal data, usernames and passwords to get to more important data



Hold data ransom

Steal records, personal data, usernames and passwords and charge the organization to give it back



Steal infrastructure

Take control of an organization's compute, storage and network resources so not to pay for them



Deny service

Prevent web services from working to impact organization's reputation or bottom line

OCI Web Application Firewall (WAF)

OCI WAF protects against threats such as OWASP defined top-10 vulnerabilities. It can be used to limit access to the application based on geography or the signature of incoming requests, block unwanted bots.

OCI WAF protects your application infrastructure and workloads no matter where they reside: in OCI, on-premises, multi-cloud and anywhere in between.

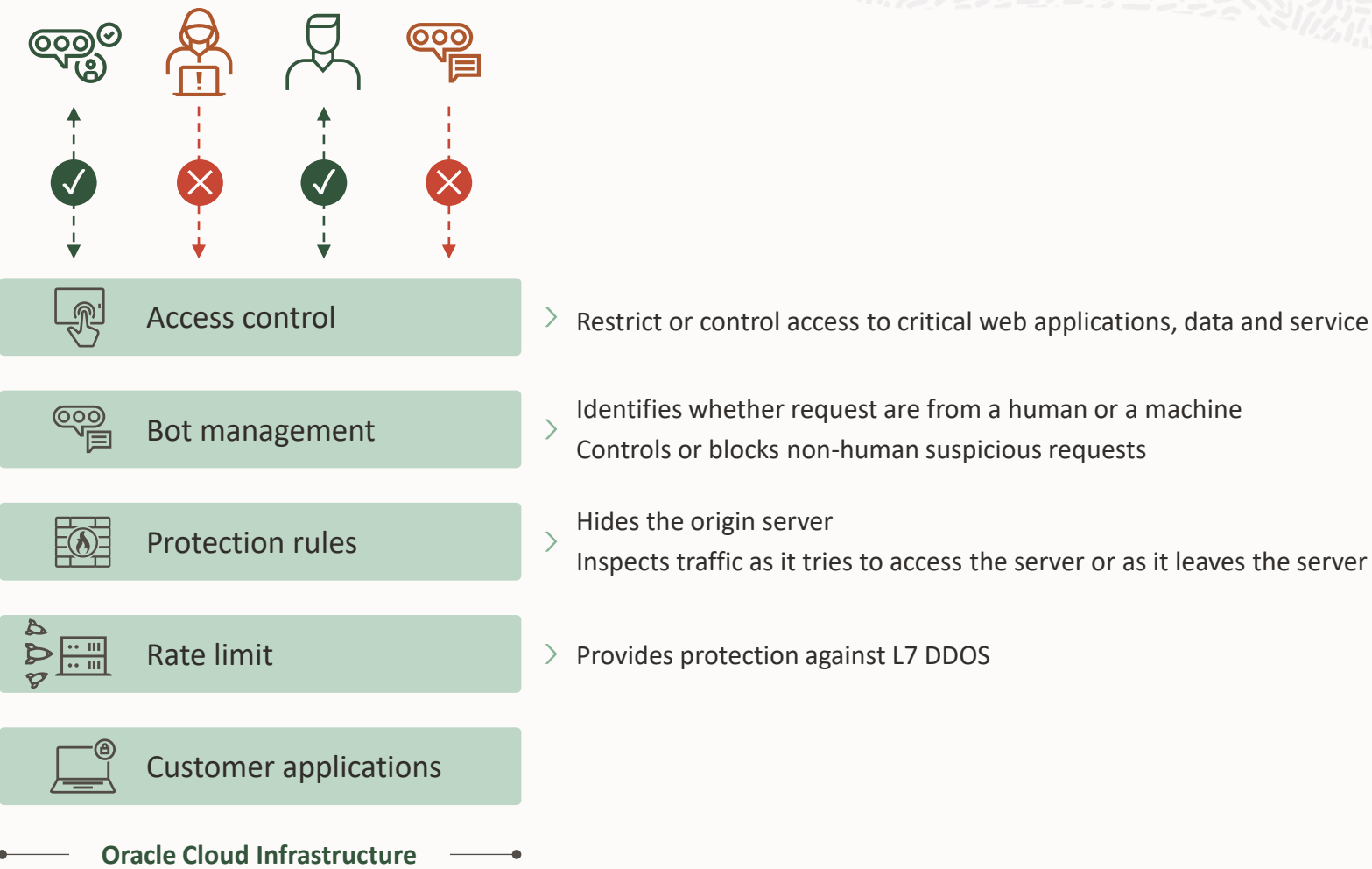
Customer benefits

- Layered defense and flexibility to enforce security at the edge closest to users as well as in-region closest to the application on flexible load balancers (New!)
- WAF policies can be enforced on internet facing web applications, and/or (public/private) flexible load balancer instances
- Protects internet facing and internal applications against both external and insider threats
- Supports access rules, protection rules, rate limiting and bot management*

The screenshot shows the 'Create WAF Policy' wizard in the OCI console. The 'Select Enforcement Point' step is active, which is optional. It instructs the user to select an in-region application delivery resource to secure. A dropdown menu shows 'Load Balancer in gopigopa (root)' with a link to 'Change Compartment'. Below the dropdown, the text 'mushopflexib' is visible. A note indicates that enabling security logs is highly recommended. At the bottom, there is a '+ Additional Firewall' button and navigation buttons for 'Previous', 'Next', and 'Cancel'.



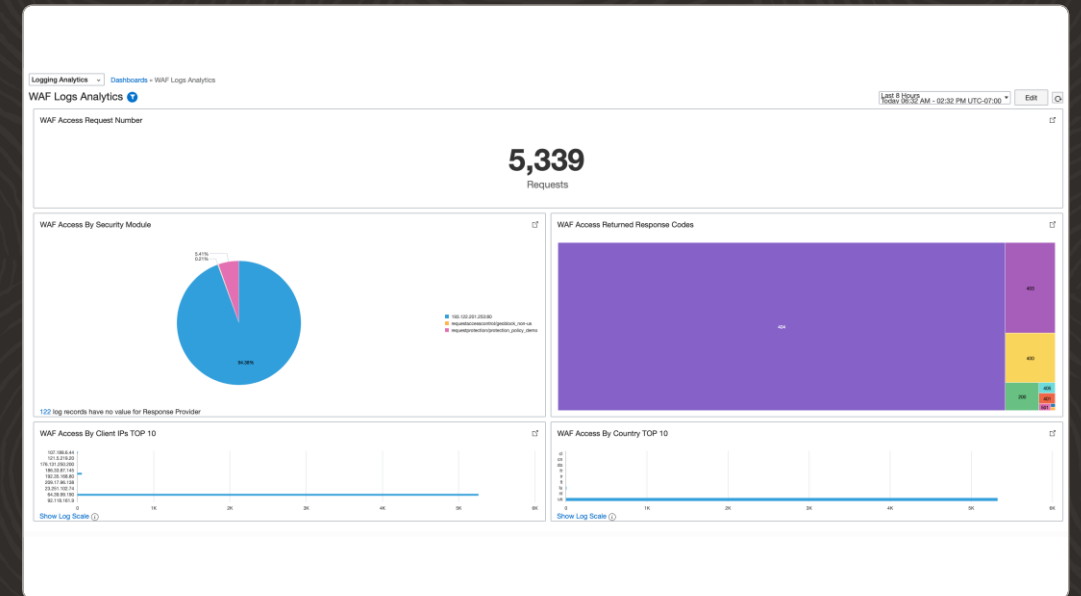
OCI WAF features



Access controls

Use the access controls to restrict or control access to your critical web applications, data and services.

- Control access, based on HTTP header information. Block requests if the HTTP header contains specific names or values or allow traffic with proper HTTP regular expression
- Control access based on URL address matching or partial matching or match proper URL regular expressions
- Regional access control can be used to restrict users from certain geographies



Protection rules


Use these rules to protect your critical web applications against malicious cyber-attacks from bad actors. Incoming requests are inspected to determine if it contains an attack payload as compared to industry-leading threat feeds.

- Supports over 250 rule sets as well as the Open Web Access Security Project (OWASP) rule sets
- WAF will block and/or alert on the requests: SQL injection, cross-site scripting, HTML injection and many more

Choose Protection Capabilities

Oracle provides protection capabilities that catch a variety of malicious traffic types, such as XSS attacks and SQL injection. These capabilities run when the specified request and response conditions are met.

Protection Capabilities

 Enable all capabilities tagged as **Recommended** for best practices.

Filter by Tags

OWASP x Recommended x

Filter by Version

Latest

[Reset All Filters](#)

<input type="checkbox"/>	Key	Name	Description	Collaborative	Tags
<input type="checkbox"/>	944300	Java attack Attempt:Interesting keywords for possibly RCE on vulnerable classess and methods base64 encoded	Java attack Attempt: Interesting keywords for possibly RCE on vulnerable classess and methods base64 encoded	No	OWASP, OWASP-2017, CRS3, WASCTC, PCI, HTTP, A1, A1-2017, Java
<input type="checkbox"/>	944250	Java attack Attempt:SAP CRM Java vulnerability CVE-2018-2380	Java attack Attempt: SAP CRM Java vulnerability CVE-2018-2380	No	OWASP, OWASP-2017, CRS3, WASCTC, PCI, HTTP, A1, A1-2017, Java
<input type="checkbox"/>	944240	Java attack Attempt:Remote Command Execution: Java serialization	Java attack Attempt: Remote Command Execution: Java serialization	No	OWASP, OWASP-2017, CRS3, WASCTC, PCI, HTTP, A1, A1-2017, Java



Rate limit rules

Rate limiting rules based on URL request parameters and client IP to protect against layer 7 DDOS attacks.

- Allows inspection of HTTP request properties and limits the frequency of requests for each unique client IP address

Add Rate Limiting Rule

Help

Name

Conditions (Optional)

Show Advanced Controls

When the following Conditions are met...

Condition Type

Operator

Value

✓ Path

Request Cookies

Request Headers

URL Query

Country/Region

Source IP Address

Host

Request Method

Is

×

+ Another Condition

Rate Limiting Configuration

Requests Limit

Period In Seconds

Action Duration in Seconds

Optional

+ Another Rate Limiting

Add Rate Limiting Rule

Cancel



Bot management

Entity attributes and behavioral detection



Human interaction

Oracle WAF identifies normal usage patterns based on legitimate user behavior to the site.

The WAF will challenge with CAPTCHA or block requests when it detects abnormalities or traffic exceeds defined interaction thresholds.



Device fingerprinting

Oracle WAF collects unique various characteristics about a device entity, generating a hashed signature. This hashed signature is then compared to other requests to determine the same signature is being leveraged across different contexts.

Shared responsibility model for OCI WAF

Responsibility	Oracle	Customer
Onboard/configure the WAF policy for the web application	No	Yes
Configure WAF onboarding dependencies (DNS, ingress rules, network)	No	Yes
Provide high availability (HA) for the WAF	Yes	No
Monitor for distributed denial of service (DDoS) attacks	Yes	No
Keep WAF infrastructure patched and up-to-date	Yes	No
Monitor data-plane logs for abnormal, undesired behavior	Yes	Yes
Construct new rules based on new vulnerabilities and mitigations	Yes	No
Review and accept new recommended rules	No	Yes
Tune the WAF's access rules and bot management strategies for your traffic	No	Yes



What's New in OCI WAF

- Include `\${http.request.id}` in custom responses for faster troubleshooting and correlation (Release Notes).
- Additional in-region protection rule sets and threat-intel feeds; easier tuning.
- HTTP Request Body Inspection—buffers and scans request bodies.

*All features supported on both Edge and Flexible Load Balancers.

Simplified Pricing – 2025



- First WAF instance + first 10 million requests/month are FREE for OCI commercial customers.
- After free tier: charged per WAF instance/month and per 1 million incoming requests.
- Pricing identical for Edge and In-region WAF; pay-as-you-go or commit models.

Thank you



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