

# ORACLE DYN API SECURITY



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## **Oracle Dyn API Security**

Cloud-based, advanced API protection with native SDK for web and mobile

#### Overview

API endpoints have become a weak link in today's enterprise networks. Oracle Dyn API Security provides the protection you need for this oftenoverlooked vulnerability.

Organizations are deploying Application Program Interface (API) endpoints at an ever-increasing rate to keep up with the demands of mobile applications, server-to-server communication, and microservice requirements. This creates a broader attack surface that is increasingly a target for savvy threat actors wielding vast botnets and advanced scripts, which they use to disrupt business-critical communications. Organizations need to protect their web services from DDoS attacks and malicious bots without compromising legitimate API traffic.

Securing API endpoints is difficult because they are intended for nonhuman consumption, challenging traditional authentication protocols. How can today's DevOps teams design API services with security in mind?



#### The Solution

Using advanced identifiers generated by an integrated library, Oracle Dyn API Security determines the legitimacy of API calls to eliminate attacks at the edge of the network.

Malicious activity is blocked by the web application security proxy while authorized traffic passes through seamlessly. The solution works for both authenticated and unauthenticated API calls.

Oracle Dyn API Security is a cloud-based, feature-rich API attack detection, mitigation, and management platform, offered as a 24/7 Managed Security Service.

ORACLE' + Dyn API Security

API URL

API Demo

Alerts

Charger

Info and Support

#### **Advanced API security** without compromise

Unlike traditional API protection solutions available today, Oracle Dyn API Security offers a flexible platform that is easily deployed and continuously managed.

Ongoing monitoring and tuning of API management policies ensures the optimized performance of your web applications.

#### **Business Value**

- Advanced validation techniques
- Stronger protection than IP rate limiting alone
- Mobile integration
- In-depth reporting and analytics
- Cloud-based, so no new hardware to install or manage



#### **IP Rate Limiting Is Not Enough**

Unlike traditional API protection solutions which typically rely on IP rate limiting and basic DDoS protection techniques, Oracle Dyn API Security uses advanced algorithms to vet API requests, determine legitimacy, and eliminate API attacks at the edge of the network. Oracle Dyn API Security blocks malicious activity, allowing only authorized traffic to pass through seamlessly. Oracle Dyn API Security is designed to work with both authenticated and unauthenticated API calls and provides protection against dictionary attacks, Layer 3/4/7 DDoS attacks, API malicious usage, automated API scraping, and API hijacking.



Oracle Dyn API Security is part of our cloud-based, managed Web Application Security suite and is seamlessly integrated with our Web Application Firewall, DDoS, Bot Manager, and Malware Protection offerings.

#### How it Works

- 1. An Oracle Dyn library integrates with the client's application (mobile apps, etc.).
- 2. A unique hash is generated by the Oracle Dyn library.
- 3. Each API call contains an Oracle Dyn header with the unique hash that guarantees that the API call originated from a friendly legitimate source.
- 4. API calls that do not have the unique hash are blocked at the edge.

#### **Key Benefits**

- Goes beyond rate limiting
- Observes the intent of the call
- Detects calls carrying attack payloads
- Classifies good vs. bad calls
- Looks inside calls content inspection
- Conserves resources
- Caches calls: advanced caching
- Maintains business continuity and transactions
- Ensures no interference with legitimate traffic
- Offers a mobile SDK Easy implementation by developers



Want to learn more about API Security? Visit: dyn.com/security



# Secure, Intelligent Edge

The Oracle Dyn global business unit (GBU) helps companies build and operate a secure, intelligent cloud edge. Our services help customers operate resilient, secure, and high-performance sites and applications via fully managed DNS and Web Application Security services. Dyn's solutions are backed by one of the world's most comprehensive internet performance data sets, collecting more than 200 billion internet data points daily across a global network. More than 3,500 customers rely on Oracle Dyn's edge services, including preeminent digital brands such as Netflix, Twitter, CNBC and LinkedIn. For more information, visit dyn.com.

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