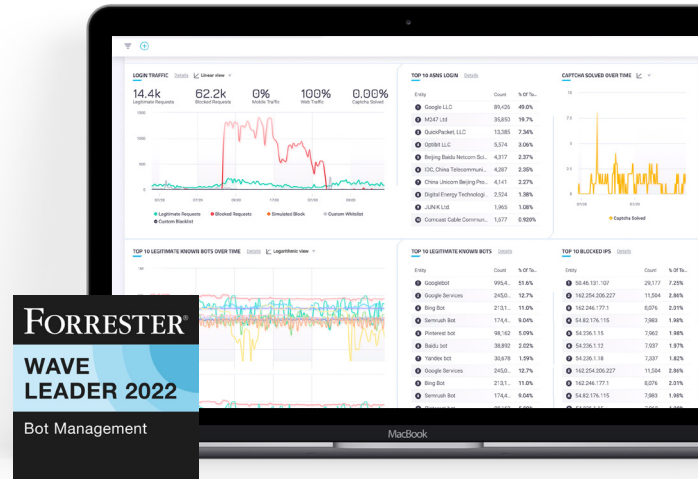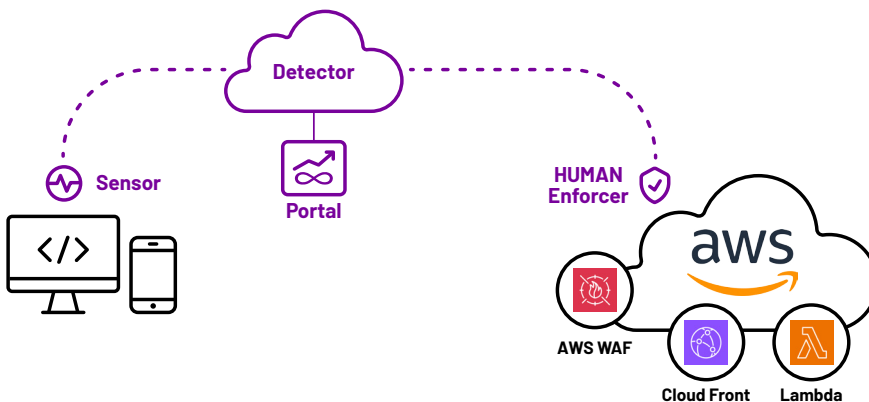# HUMAN

HUMAN Bot Defender for Amazon CloudFront and AWS Lambda@Edge

Ensure bot-free, low latency traffic over your cloud-native web and mobile applications with CloudFront via Lambda@Edge

As more and more web infrastructures continue to move to the cloud, digital organizations have an opportunity to fight bot attacks at the edge. HUMAN Bot Defender deploys out-of-band and mitigates bots at the edge without adding another layer of in-line traffic processing. The solution seamlessly integrates using Amazon CloudFront and AWS Lambda@Edge to provide comprehensive bot management while ensuring low latency. Bot Defender detects and mitigates sophisticated bots with unmatched speed, scale, and precision.

HUMAN Bot Defender

HUMAN Bot Defender is a behavior-based, machine-learning driven bot management solution that protects your websites, mobile applications and APIs from automated attacks. Bot Defender safeguards your online revenue, competitive edge and brand reputation.

Bot Defender provides the world's largest digital businesses with best-in-class bot protection. Detection is based on behavioral analytics, advanced machine learning techniques, predictive models and security research. Bot Defender blocks a wide range of automated attacks, preserving page load performance, and optimizing security resources and infrastructure costs.

If required, Bot Defender provides the Human Challenge, a user-friendly verification feature that protects against CAPTCHA-solving bots while maintaining a positive user experience.

Bot Defender is available on the AWS Marketplace as a private offer option.

"We seamlessly integrated Bot Defender at our platform edge [AWS CloudFront] to ensure maximum protection against automated bot attacks, but also to minimize latency. By using AWS CloudFront in conjunction with an edge Lambda function, it was simple to integrate and leverage Credential Intelligence as well."

— Alan Murray, Senior Director, Architecture at FanDuel

Benefits for digital businesses

Reduce Risk

Maintain your brand reputation, avoid costs associated with bot-related security issues and increase your users' confidence and trust.

Protect Your Revenue

Increase your customer loyalty, maintain your competitive edge, make better business decisions.

Improve Operational Efficiency

Enable your team to focus on innovation and growth, and save on resource consumption by optimizing the use and performance of your web infrastructure.

How it Works

COLLECT
The sensor collects and sends hundreds of non-PII client-side indicators to the detector for precise determination of human versus bot activity.

DETECT
The machine-learning (ML) based detector continuously learns the normal range for human interactions and correlates it with customer-defined policies.

BLOCK
The enforcer tags and mitigates bot traffic according to threat response policies. The enforcer also continuously updates the detector with relevant data.

LEARN
The portal features advanced reporting and analysis capabilities to investigate attacks and create custom reports.

The HUMAN Advantage

Easy to Deploy and Integrate with AWS
- Deploy the lightweight JavaScript Sensor quickly and easily into your web pages.
- Utilize the pre-built Enforcer integrations for Amazon Cloudfront and AWS Lambda@Edge.
- Integrate the Enforcers effortlessly into your AWS web architecture.

Low-latency Architecture
- Deploys out-of-band without adding another layer of in-line traffic processing.

Accuracy of Detection and Protection
- Detect bots with the cloud-based Detector that uses over 120 ML algorithms and 160 ML models.
- Customize mitigation across all channels - web, mobile and APIs.

Enterprise Level Customer Services
- HUMAN security experts serve as an extension of your team and are available 24/7/365 over dedicated Slack channels, email or phone.

Key Integrations

Application SDK/Middleware
node js   Java   Ruby
GO   python

Load Balancers and Web Servers
APACHE   NGINX
CITRIX NetScaler   f5

Serverless and Cloud Frameworks

E-commerce Platforms
salesforce commerce cloud   Magento

About HUMAN