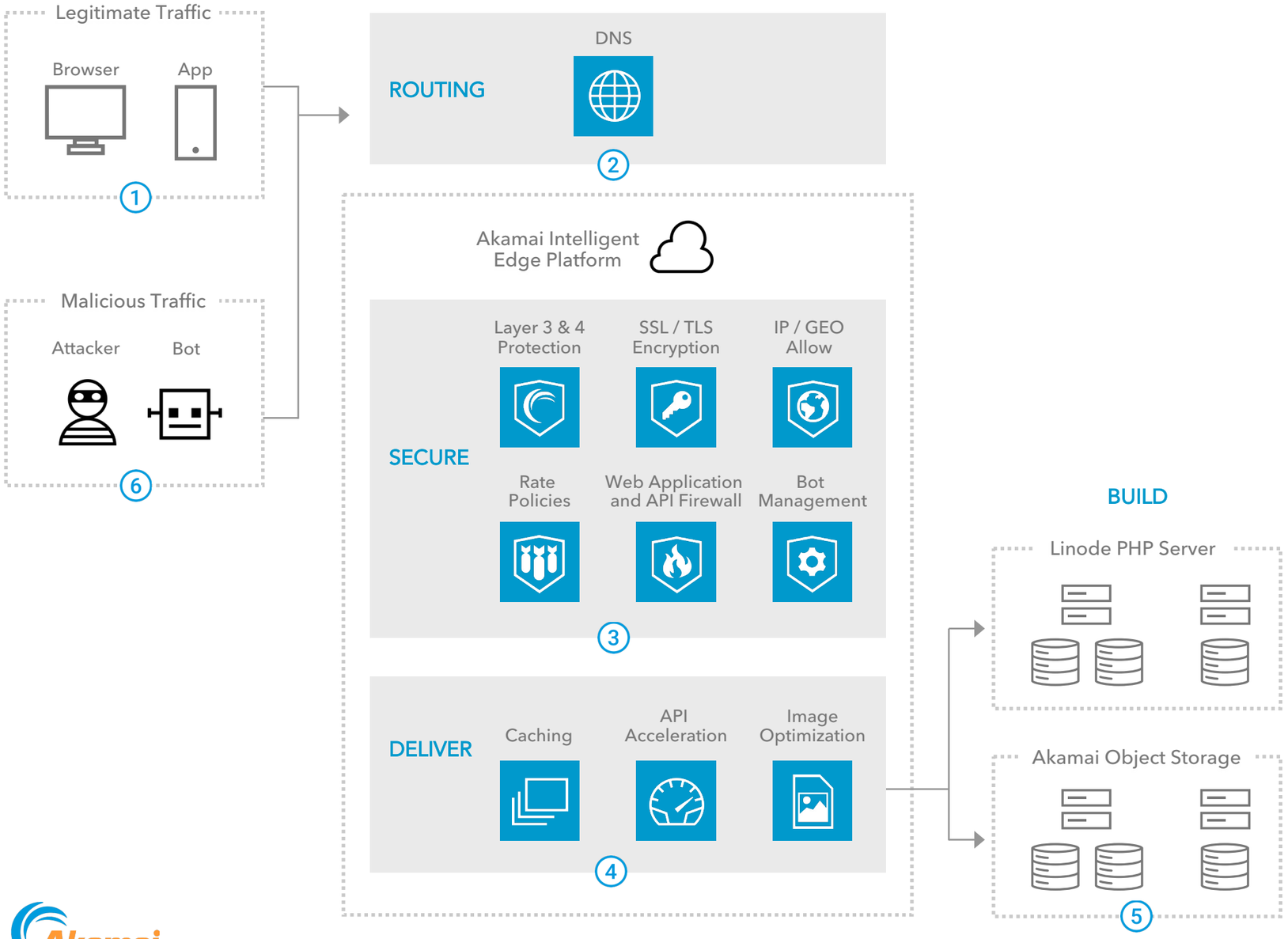
SPEED UP AND SECURE GAMING SITE

Reference Architecture



OVERVIEW

We sped up and improved the Ludum Dare game jam site by leveraging Akamai plus Linode. With the implementation of Akamai products and by leveraging Linode IP as the origin, the Ludum Dare site is now able to offer highly requested capabilities to users — specifically, the ability to directly upload and play games on the site. Security and performance enhancements have been applied to make the site more secure and easier to manage.

1. Request content: Users on ldjam.com browse and play the games.
2. Prevent attacks: Edge DNS protects the ldjam.com domains from attacks and issues DNS requests. Edge DNS will map users to the edge platform.
3. Secure requests: The Ludum Dare DNS, web application, API microservices, and origin infrastructure at Linode are now protected behind a wide variety of security mechanisms that make up Akamai App & API Protector.
4. Deliver content: Legitimate requests are handled by the same edge server. For static files, the cache is consulted and files are served to users. For dynamic content, requests are forwarded to the Linode PHP server (the origin). By implementing NetStorage and Download Delivery, we were able to add the ability to host and play games on the site without adversely affecting performance.
5. Upload: Users can upload game files to Akamai Object Storage using the NetStorage API. Uploaded games can be retrieved through Download Delivery.
6. Block malicious traffic: If any of the security mechanisms deem a request malicious, the traffic will be blocked. Security events are logged in Security Analytics to provide improved visibility into security threats.

KEY PRODUCTS

Build ► Linode Dedicated CPU Compute and Akamai Object Storage

Deliver ► Akamai Ion and Download Delivery

Secure ► Akamai Edge DNS and App & API Protector

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