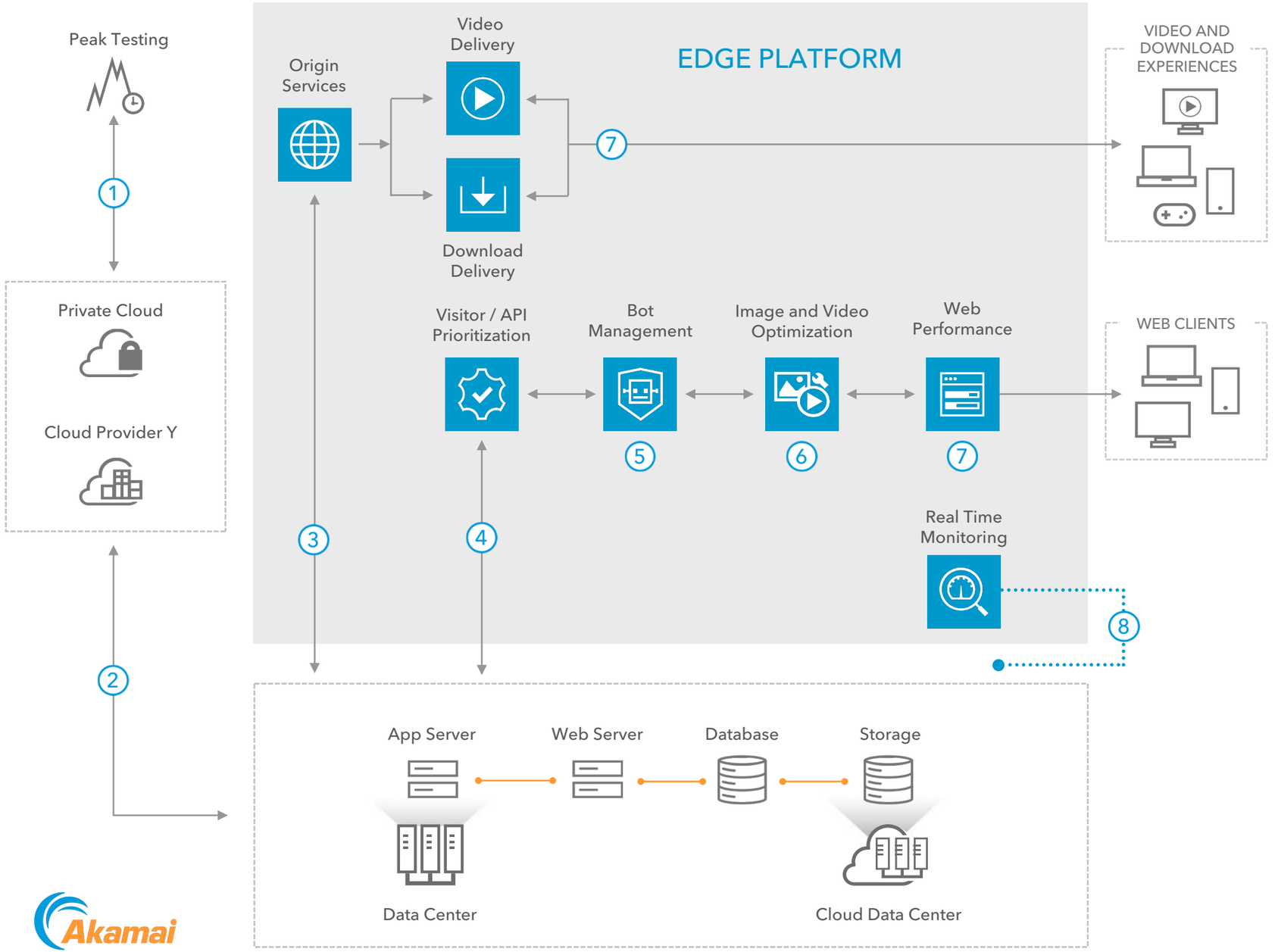
SCALING FOR PEAK

Reference Architecture



OVERVIEW

Complex modern web applications have too many moving parts to scale easily. Akamai can help you prepare for a spike in demand and optimize resources and offloading when it hits – so users can have an exceptional experience even during periods of extreme back-end load.

1. Peak testing generates traffic from a cloud testing platform that can comprise multiple different private and public clouds.
2. Simulating traffic at peak scale with real-world conditions helps identify potential performance issues and breakpoints in the application environment before critical peak events.
3. Store, ingest, or cache content away from cloud or on-premises origins, improving origin protection and offload, reducing egress and infrastructure costs.
4. Visitor prioritization can help manage the user experience during periods of extremely heavy back-end load.
5. Bot management helps shape bot traffic during peak periods to reduce load and maintain performance for human users.
6. Image and video optimization delivers visual media with maximum quality and performance at the lowest possible bytes and with intelligent caching.
7. The Akamai Intelligent Edge Platform delivers great user experiences and optimizes infrastructure offload as it scales to meet peak traffic demand.
8. Real user monitoring, analytics and real-time logs help identify performance issues across a heterogeneous application environment in real time as it scales.

KEY PRODUCTS

Peak testing ▶ CloudTest
Content delivery ▶ Ion, Adaptive Media Delivery, Download Delivery
Image and video optimization ▶ Image & Video Manager
Origin services ▶ NetStorage, Media Services Live, Cloud Wrapper
Bot management ▶ Bot Manager
Visitor prioritization ▶ Visitor Prioritization or API Prioritization
Real-time monitoring ▶ mPulse, DataStream, Media Analytics

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