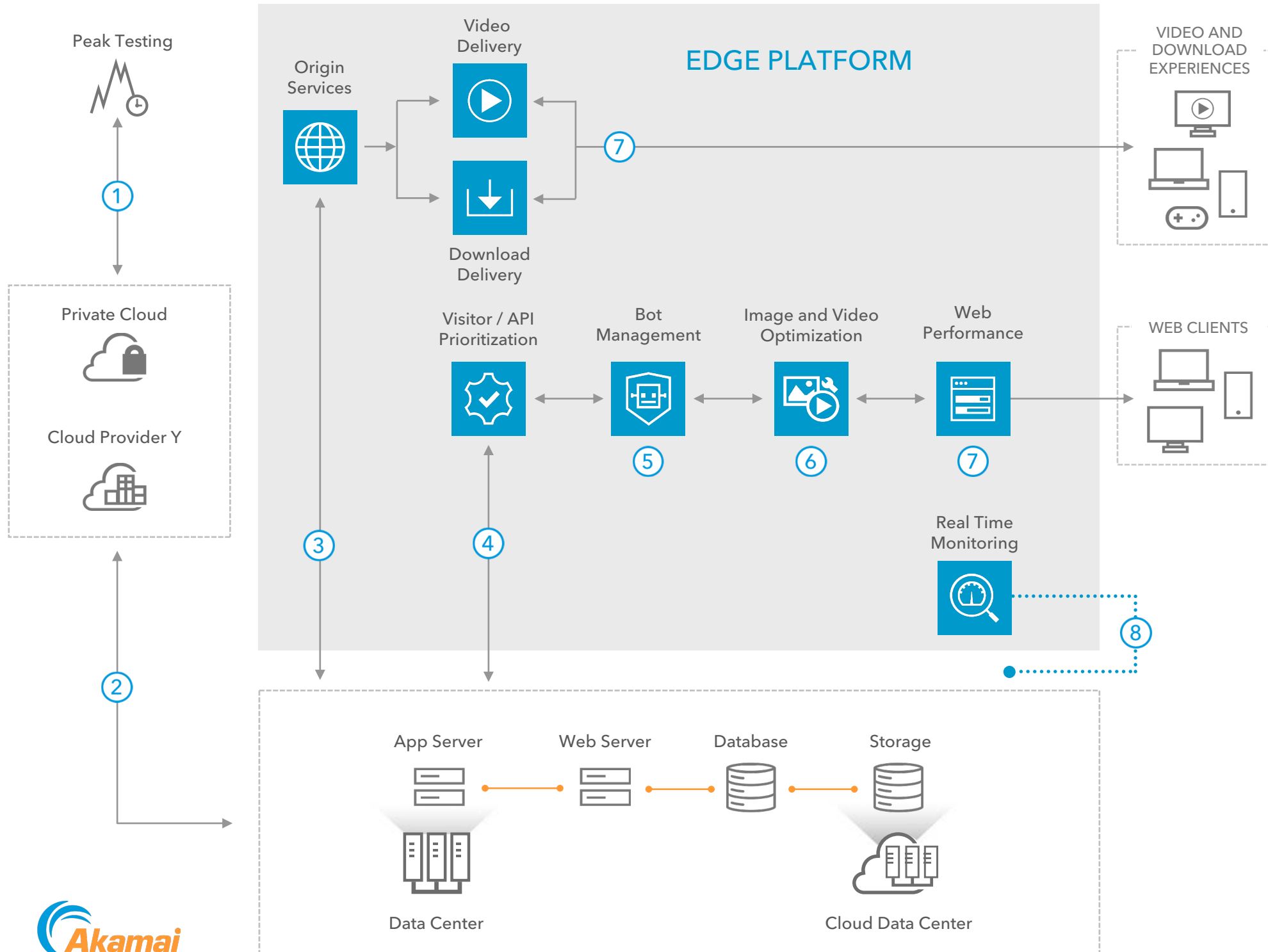


# SCALING FOR PEAK

## 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