**HYBRID CLOUD**

**Reference Architecture**

The Akamai Intelligent Edge Platform helps you maintain a secure, high-performance experience for your users through the transition to the cloud so you can migrate at the pace that makes most sense for your business and operational goals.

1. Web clients access web application through the Akamai Intelligent Edge Platform.
2. Edge servers automatically block DDoS attacks and inspect for malicious threats like SQL injections, XSS, and RFI.
3. Serving content from cache mitigates complexity from multiple back-end environments and reduces cloud bandwidth costs.
4. Pre-connect scans page and establishes connections to on-premises and cloud-based resources before they are needed.
5. Phased release manages how and when to shift traffic from an on-premises data center to a cloud provider.
6. Load balancing directs client traffic to the optimal origin, whether it’s your data center or a cloud provider.
7. Real user monitoring helps identify granular performance issues across a complex heterogeneous application environment.
8. Peak testing simulates traffic at peak scale with real-world conditions to test scalability of cloud infrastructure.

**OVERVIEW**

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**KEY PRODUCTS**

- DDoS/WAF: Kona Site Defender or Web Application Protector
- Edge caching and pre-connect: Ion
- Phased release: Phased Release Cloudlet
- Load balancing: Application Load Balancer Cloudlet or Global Traffic Management
- Real user monitoring: mPulse
- Peak testing: CloudTest