

DATASHEET
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WebScale CloudEDGE CDN

Enterprise-grade Security and Compute-at-the-Edge
Performance for Modern Commerce

Ecommerce merchants everywhere understand the importance of delivering fast, secure, highly available storefronts. Performance especially has never been more important, with more than 80% of the world's sites failing Core Web Vitals (CWV), Google's latest standard for assessing the user experience of websites.

A content delivery network, or CDN, typically hosts the heaviest elements of a page, reducing the page's loading time and boosting performance. For ecommerce websites with hundreds of product images, and global customers accessing them using various devices and browsers, a CDN is a critical component to ensure a seamless browsing experience. CDN providers must also bring in-depth security expertise, to proactively monitor and defend against emerging cyberthreats.

However, not all CDNs are created equal, and the demands of modern commerce—from industry-beating Core Web Vitals to the rapid deployment of services around security, headless and PWA environments—are pushing the industry to deliver a new edge platform to enable these varied use cases.



WebScale CloudEDGE CDN

WebScale CloudEDGE CDN is the world's first cloud-agnostic, compute-at-the-edge CDN designed for lightning-fast performance and the programmability needs of commerce. With real-time code execution at the edge, WebScale CloudEDGE CDN provides unprecedented control over the entire application infrastructure, coupled with powerful compute capabilities that enable a wide range of modern commerce use cases, and analytics to deliver robust security and blazing performance at the cloud edge. WebScale CloudEDGE CDN is available to modern commerce businesses of all sizes, whether they are already deployed on WebScale's SaaS platform or not.

Built for commerce storefronts, WebScale CloudEDGE CDN is a fully managed multi-cloud platform for boosting CWV performance and delivering impressively fast and secure digital experiences, directly from the edge.

Product Benefits

Merchant



Core Web Vitals Improvements

CloudEDGE CDN delivers user requests and responses directly from the edge, addressing the needs of the commerce segment for faster, smarter, and optimized digital experiences.



End-to-End Asset Optimization

Powerful image optimization, through edge worker execution, enables high sales conversions by processing assets directly from the edge.



Dynamic and Secure User Experiences

Powered by dynamic, distributed edge computing, CloudEDGE CDN offers all-in-one, vertically-integrated security with a WAF, and highly scalable bot protection against threats such as carding attacks.



Infrastructure and Egress Costs Savings

Achieve operational efficiencies by packaging and running caching services, and security controls that offload trip overhead to the origin.



Inline Observability and Real-Time Control

The Webscale Portal and Web Controls together allow deep observability into traffic trends, threat analytics, forensics, and troubleshooting from the edge to the origin.



Configurable and Programmable

Enable intelligent code execution and testing processes, from development to production, all from within the Webscale Portal.

Digital Agency



End-to-End Manageability for Faster Storefronts

With CloudEDGE CDN, modern commerce businesses have an easily scalable solution that enables Core Web Vitals and Lighthouse score improvements.



Eliminate Cloud Deployment Bottlenecks

Execute on-arrival image optimization at scale, per request context, with load balancing, edge caching, and service handling – all located at the edge.



Multi-Cloud and Commerce Independent Delivery

Eliminate cloud lock-in with CloudEDGE CDN. Deliver from the edge, across any cloud provider or region, for complete operational flexibility and scale.



Strong Security

From WAF, fraud detection and bot management for carding attack prevention, CloudEDGE CDN provides on-the-fly security handling at scale to origin servers.



Single Pane of Glass Observability

The Webscale Portal and Web Controls together allow deep observability into traffic trends, threat analytics, forensics, and troubleshooting from the edge to the origin.



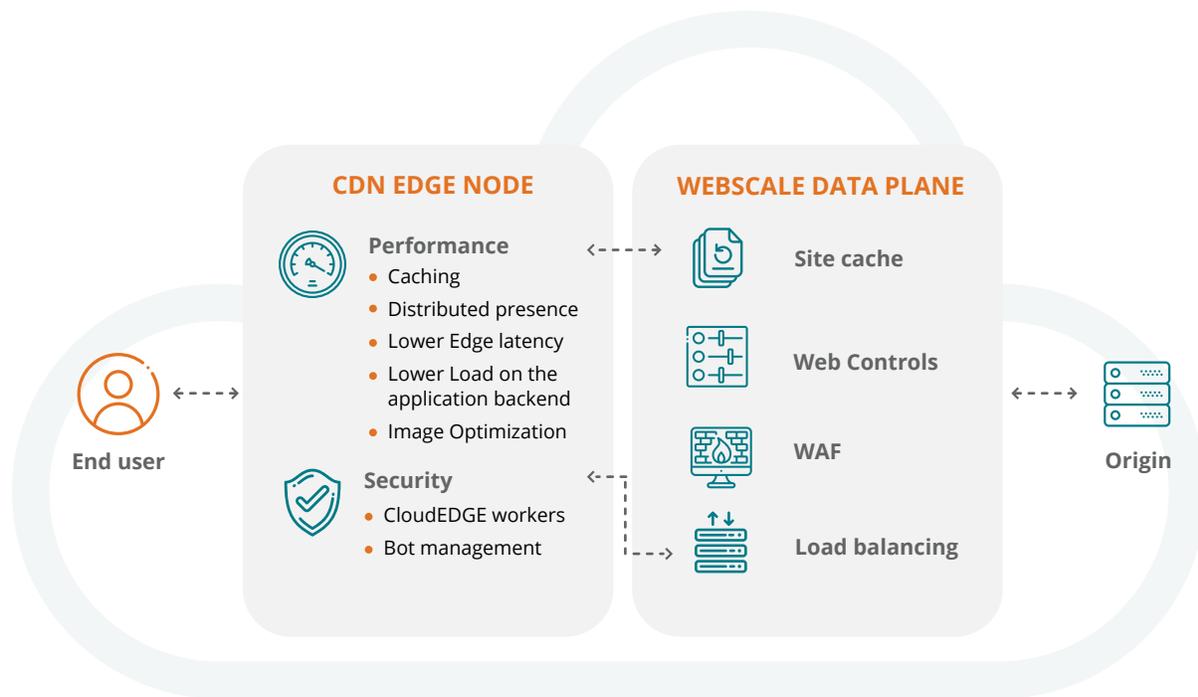
DevSecOps and Continuous Edge Delivery

Leverage automation and highly defined DevSecOps protocols to enable fast setup of a reliable CI/CD pipeline for commerce application delivery.

How It Works

Based on the CloudEDGE platform, CloudEDGE CDN accelerates page load times by selectively caching static assets and utilizing pre-deployed Webscale code at edge nodes closest to the requester, for tasks such as image optimization, or security against carding attacks. This reduces latency while offering deep application insight and observability, with real-time logging and flexible security policy controls.

New code deployments are automatically tested and deployed at Webscale global edge locations without any IT or DevOps constraints around the provisioning, scaling, or management of origin servers.



Product Features

Performance and User Experience



Intelligent Caching

The required intelligence for optimal caching comes from the Webscale patented software stack. With in-built intelligent caching in its data plane, Webscale uses advanced page and content optimization techniques, in real-time, to optimize web page asset delivery, reduce round trips and page size.



Dynamic Site Cache

Webscale's Dynamic Site Cache feature delivers lightning fast page loads for users when they visit a storefront for the first time, by allowing caching of HTML pages and content for anonymous sessions. It also ensures the application origin is no longer processing bot traffic, significantly increasing the efficiency of the application infrastructure, improving performance and reducing operating costs.



Image Optimization

Webscale's serverless image optimization solution delivers high speed image processing without sacrificing image quality. This cost effective solution also provides flexible storage and compute options for file reprocessing, so modern commerce storefronts can deliver improved Core Web Vitals, faster page loads, higher search-engine rankings and enhanced user experiences that result in higher conversion rates.

Layered Security



Application Awareness

Webscale CloudEDGE CDN features the only WAF designed with application awareness, including specific optimizations for ecommerce and enterprise web applications. Each application may have different security needs and the ability to apply custom security policies is critical for application owners and IT. Webscale enables predefined security rule-sets based on the application.



OWASP Top 10 Protection

Automatic protection of critical web applications from the most common vulnerabilities, such as SQL Injections, Cross Site Scripting (XSS), Cross Site Request Forgery (CSRF), and other OWASP top 10 threats.



Block/Allow Listing

Superior flexibility to block or allow requests and sessions by IP address, user agent, or the user's origin country. Webscale allows merchants to block known bad actors permanently, or even entire geographical regions that merchants are not serving, while building a trusted model that only allows authorized personnel to access the most secure parts of the application (such as admin sites).



DDoS Mitigation

Webscale identifies and blocks millions of attacks daily from all over the world, automatically learning from each new threat. Webscale's DDoS Shield Mode offers single-click protection when under a suspected Distributed Denial of Service (DDoS) attack or a flood of bots by instantly forcing a challenge that only humans can validate.



PCI Compliant

Webscale is Level 1 Service Provider-grade PCI-DSS compliant, ensuring your web applications are adhering to the latest PCI security standards. With Webscale, you can quickly and easily protect your customers' sensitive data from external threats, without making any changes to your web application.



Web Controls

Webscale's Web Controls is a DIY policy and rules engine that allows site administrators, or users of any skill level, to use pre-defined, pre-tested security rulesets based on their ecommerce application. They can also create their own equivalent of firewall rules, with no limits on how many can be enabled at any point in time.

Insight



Real-time Logging

Real-time logging provides a view into every request served from the Webscale CloudEDGE CDN. The application-centric data can be further viewed as a combination of requests, page views and sessions with each giving specific data about each group in detail.



Customer Portal

The Webscale Portal offers end-to-end, real-time observability into your website's hosting infrastructure and user experience. It delivers a comprehensive single pane of glass into website traffic, providing granular insight into all admin performed tasks, detailed analysis on potential cyberthreats and issues that may be affecting performance, as well as Web Controls, our powerful DIY policy and rules engine for the easy creation of firewall-equivalent rules.