KAAZING WEBSOCKET GATEWAY – HTML5 EDITION

KAAZING WEBSOCKET GATEWAY is a Web communication platform for a new class of fully-interactive Internet applications capable of live streaming data, enhanced user experience, simplified development, and a reduced cost of back-end server infrastructure.

The HTML5 EDITION extends the reach of your back-end systems to the Web by facilitating communication between browser and mobile clients to your enterprise environment.

Business applications that deliver services over the Web are chained to an outdated architecture that could never have anticipated today's Internet, nor the Internet of the future. People no longer use browsers just for "surfing the Web", but are performing dynamic tasks such as online banking, e-commerce, or checking in for their flights. In other words, browser and mobile applications are increasingly defining themselves not by traditional static content, but by the data itself.

Built to serve static documents, the Web we know today was crafted around the use of HTTP, which is great for many purposes, but has severe limitations when it comes to dynamic data. Traditional web architecture is based on HTTP which wasn't designed for real-time or interactive communication. While this approach has served the Internet well for the last fifteen years, it is now outmoded for the kinds of responsive real-time applications businesses are required to deliver.

KAAZING WEBSOCKET GATEWAY extends your back-end systems or applications to the Web, connecting hundreds of thousands of concurrent users directly to the real-time data flowing through your organization. It is based on a new standard called HTML5 WebSocket whose specification was designed to address the limitations of HTTP and serve as the communication model for the next generation of interactive and streaming web applications.

The HTML5 EDITION makes your custom server or TCP-based application accessible to browser and mobile clients on the Web, through firewalls and proxies. Expand the boundaries of applications currently locked in the enterprise environment without compromising performance or security.

FEATURES

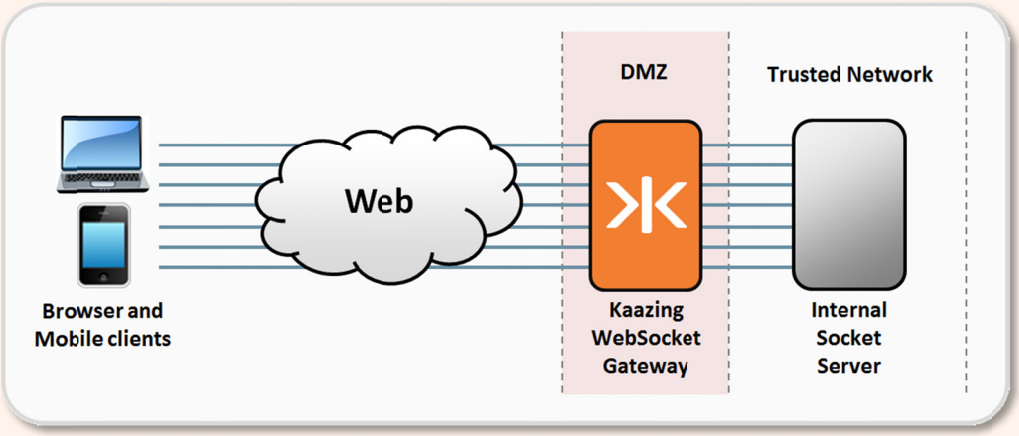
BENEFITS

- Extends existing client-server or TCP-based applications to the Web without sacrificing security or performance.
- Superior user experience with full-duplex interactivity and streaming live data – no plug-ins required.
- Increases productivity by letting developers focus on the data, not the technology for transporting it.
- Reduces operational costs significantly and simplifies Web architecture by minimizing Web-tier processing.
- Unifies your architecture for both the Web and mobile devices by creating a single access point.
- Performance and scalability that cannot be matched by traditional Ajax or Comet techniques.

FEATURES

- Supports the HTML5 WebSocket interface and IETF WebSocket protocol specification.
- Cross Origin Resource Sharing (CORS) for accessing services on different origins.
- HTML5 Cross Document Messaging for inter-page communication.
- HTML5 Server-Sent Events (SSE) for push notifications.
- Transport both text and binary messages.
- Kaazing's WebSocket Acceleration™ ensures your application runs in older browsers without HTML5 support.
- Consistent interface on a variety of client technologies including JavaScript, Flash/Flex, Silverlight, .Net, Java.

This is an example architecture diagram that shows browser and mobile clients connected to a custom socket server or TCP-based application over the Web, proxied by Kaazing WebSocket Gateway. Full-duplex data flows through the Gateway in both directions meaning both the client and the server can send data any time, or even at the same time, with no additional latency. Now clients on the Internet are first-class citizens that can access your socket server or data just like an enterprise client. But your back-end server remains protected in the trusted network while Kaazing WebSocket Gateway is the DMZ access point, securing your data with end-to-end encryption.



Unlock your enterprise applications

Every organization today is under pressure to deliver their applications to the Web and make them accessible to browsers and mobile devices. Rather than throwing away investment in existing applications or socket-based servers, you can extend them to the Web with security, reliability, and high performance. Furthermore you can do this without modifying existing infrastructure: Kaazing WebSocket Gateway simply makes the new Web clients appear as regular clients because you can extend the protocol of your back-end server all the way to the browser.

Unified architecture, Greater developer productivity

With Kaazing WebSocket Gateway you can create a simplified and unified architecture. All clients, either in the enterprise or on the Web, share the same access point and a common communication model. It doesn't matter whether the client technology is JavaScript, Flash/Flex, Silverlight, .Net, Java, or mobile devices: developers use the same standard interface. They spend less time on the underlying communication mechanism, and more on business logic and GUIs. Now you no longer need to run expensive, overly-complicated middleware to cater for a variety of platforms or end-user technologies.

Enterprise-grade security

Keep your data safe, even over the Web, with full support for end-to-end encryption. Kaazing WebSocket Gateway integrates with JAAS, supporting pluggable authentication modules to communicate with your directory store so you know that users are who they say they are. It is also the world's only implementation of SPNEGO-based Kerberos security over WebSocket for single-sign on capability over the Web that integrates with your security infrastructure. Role-based authorization lets you specify who can access which services. Finally, the Gateway is also suitable for the DMZ, providing a secure access point for your back-end socket server to be accessed from the Web.

Increased architectural flexibility

Creating a browser application that can consume data from multiple origins on a single page has, until now, been incredibly difficult to manage and is fraught with inherent security risks. Cross-Origin Resource Sharing (CORS) is a new standard that addresses those issues, giving you flexibility in how you structure your architecture while maintaining security.

WebSocket Acceleration™ technology

Unlike traditional HTTP connections, a WebSocket is an HTTP-friendly full-duplex TCP socket, across which any application data can flow in either direction. Kaazing WebSocket Gateway can handle the transmission of hundreds of thousands of messages a second between clients and servers. With Kaazing you never need to install a plugin. Thanks to Kaazing's patent-pending WebSocket Acceleration™, older browsers with no native support for HTML5 – even as old as Internet Explorer 6.0 – will work transparently with near-native performance.

LEARN MORE

Browser Requirements

- Apple Safari 3.0
- Google Chrome 1.0
- Microsoft IE 5.5
- Mozilla Firefox 1.5
- Opera 9.5

System Requirements

- 100MB of storage space
- 1.5GHz CPU or better
- Java 1.6 (Java6) certified platform
- Java Developer Kit (JDK) 1.6x (Java6) or greater

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