Real-time Networking with Node.js

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Agenda

Real-time Networking with NodeJS

- □ What is WebSocket?
- □ What is Socket.io?
- Getting Started with Socket.io
- Client-side of Socket.io
- Broadcasting with Socket.io
- Using Rooms with Socket.io

WHAT IS WEBSOCKET?

Full-duplex communication over TCP for web browsers and servers.



WEBSOCKET









PROXY/FIREWALL FRIENDLY



STANDARDS BASED

WEBSOCKET

Solves many bi-directional problems on the web

- Depends on modern browsers
- Relies on HTTP for handshake only
- Rely on libraries to simplify the raw features



WHAT IS SOCKET.IO?

Enabling real-time apps in browser (and mobile).





SOCKET.IO IS AN ABSTRACTION OVER DIFFERENT TRANSPORTS INCLUDING WEBSOCKETS

EFFECTIVELY SIGNALR FOR NODE.JS

SOCKET.10

Simplifies creating communications and multicasting in real-time apps

- Server and client libraries work together
- Works side-by-side with Express or other frameworks
- Works well with AngularJS too











Summary

Real-time Networking with NodeJS

- The WebSocket standard means we have a non-hacky way of doing bi-directional communication
- Socket.io represents library that works with Node.js to deliver bi-direction communication
- Socket.io uses WebSockets when they're available, but will drop down into other solutions
- You'll need to build both the server and client side of the Socket.io communication layer
- You can broadcast messages to all connected clients with Socket.io
- You can subset the number of users for broadcast by using rooms in Socket.io