

defineWebSocketHelper

August 18, 2026

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Kind: Function

Source: `src/helper/websocket/index.ts`

Part of: [Helper](#)

Create a WebSocket adapter/helper

`defineWebSocketHelper` creates the WebSocket adapter used by the helper layer. It centralizes socket connection, message handling, and lifecycle operations behind a shared interface.

Signature

```
function defineWebSocketHelper(handler: WebSocketHelperDefineHandler<T, U>): UpgradeWebSocket<T, U>
```

Parameters

Name	Type
<code>handler</code>	<code>WebSocketHelperDefineHandler<T, U></code>

Returns: `UpgradeWebSocket<T, U>`

Diagram

```
graph LR
  App[Application code] --> Helper[defineWebSocketHelper]
  Helper --> Socket[WebSocket]
  Socket --> Server[WebSocket server]
  Server --> Socket
  Socket --> Helper
  Helper --> App
```

Usage

```
import { defineWebSocketHelper } from './helper/websocket'

const websocket = defineWebSocketHelper({
  url: 'wss://example.com/events',
})

websocket.connect()

websocket.onMessage((message) => {
  console.log('Received message:', message)
})

websocket.send({
  type: 'subscribe',
  channel: 'events',
})

window.addEventListener('beforeunload', () => {
  websocket.close()
})
```

AI Coding Instructions

- Keep WebSocket-specific behavior inside the helper rather than spreading socket handling across callers.
- Close the socket during application teardown to avoid leaving active connections.
- Handle connection failures and unexpected close events through the helper's lifecycle callbacks.
- Keep message payload formats aligned with the server protocol before calling `send`.

Used by

3 references from 3 files. Each is a place in this repository where the symbol is actually used — go read one rather than trusting an example.

Imported by (3)

- `BunServerWebSocket` — `src/adapters/bun/websocket.ts` :8
- `upgradeWebSocket` — `src/adapters/cloudflare-workers/websocket.ts` :5
- `upgradeWebSocket` — `src/adapters/deno/websocket.ts` :4

