

Sentry Debug Implementation - Quick Summary

Date: January 2, 2026

Status:  Ready for Deployment

What Was Done

1. Enhanced All Sentry Config Files

- **Files Modified:**

- `sentry.client.config.ts`
- `sentry.server.config.ts`
- `sentry.edge.config.ts`

- **Changes:**

- Added comprehensive debug logging
- Force-enabled `debug: true` (temporary)
- Added environment variable existence checks
- Added initialization status logging
- Enhanced error messages with emojis for easy log scanning

2. Created Test Endpoints

- `/api/test-sentry-server` - Server-side testing
- `/api/test-sentry-edge` - Edge runtime testing
- `/test-sentry-client` - Full client-side test page

3. Created Debug UI Components

- **Floating Debug Button** (`SentryTestButton.tsx`)
- Quick access to all Sentry tests
- Integrated into operator dashboard
- Only shown in development or when explicitly enabled

4. Comprehensive Documentation

- `SENTRY_DEBUG_GUIDE.md` - Full debugging guide
 - `SENTRY_DEBUG_SUMMARY.md` - This file
-

Key Finding: The Likely Issue



Missing `NEXT_PUBLIC_SENTRY_DSN` **Environment Variable**

The log message:

[Sentry] **Not** running **in** browser environment

Indicates that client-side Sentry is not initializing because `NEXT_PUBLIC_SENTRY_DSN` is not set in the Render environment variables.

Why This Matters

Variable	Available Where
<code>SENTRY_DSN</code>	Server & Edge only  (currently working)
<code>NEXT_PUBLIC_SENTRY_DSN</code>	Browser, Server, & Edge  (missing)

Client-side Sentry **REQUIRES** the `NEXT_PUBLIC_` prefix to work in the browser.

Deployment Checklist

Step 1: Add Environment Variable to Render

```
# Go to Render Dashboard → Your Service → Environment
# Add this variable:
```

```
NEXT_PUBLIC_SENTRY_DSN=<your-sentry-dsn>
```

Get DSN from: Sentry → Settings → Projects → [Your Project] → Client Keys (DSN)

Step 2: Commit and Push Changes

```
cd /home/ubuntu/carelinkai-project

git add .
git commit -m "debug: Add comprehensive Sentry debugging

- Enhanced all Sentry config files with debug logging
- Created test endpoints and UI components
- Added comprehensive documentation
- Focus: Debug client-side initialization issue"

git push origin main
```

Step 3: Deploy with Cache Clear

 **CRITICAL:** Must clear build cache!

Render → Manual Deploy →  Clear build cache → Deploy

Why? Next.js bundles `NEXT_PUBLIC_` variables at BUILD time, not runtime.

Step 4: Monitor Logs

Watch for:

```
[Sentry Debug] NEXT_PUBLIC_SENTRY_DSN exists: true ❌ Should be TRUE!
[Sentry] ✅ Client-side initialization successful
```

Step 5: Test All Endpoints

```
# Server test
curl https://your-app.onrender.com/api/test-sentry-server

# Edge test
curl https://your-app.onrender.com/api/test-sentry-edge

# Client test (in browser)
https://your-app.onrender.com/test-sentry-client
```

Step 6: Verify in Sentry Dashboard

Within 1-2 minutes, you should see test events with 🍷 emoji.



What the Logs Will Tell You

Good Logs (Working)

```
[Sentry Debug] ===== CLIENT CONFIG =====
[Sentry Debug] Browser Environment: true
[Sentry Debug] NEXT_PUBLIC_SENTRY_DSN exists: true ✅
[Sentry Debug] NEXT_PUBLIC_SENTRY_DSN length: 89
[Sentry] ✅ Client-side initialization successful
[Sentry Debug] Sentry.isInitialized(): true
```

Bad Logs (Current Issue)

```
[Sentry Debug] ===== CLIENT CONFIG =====
[Sentry Debug] Browser Environment: false
[Sentry Debug] NEXT_PUBLIC_SENTRY_DSN exists: false ❌
[Sentry Debug] NEXT_PUBLIC_SENTRY_DSN length: 0
[Sentry] ❌ CRITICAL: NEXT_PUBLIC_SENTRY_DSN is not set
```

Testing Tools Created

Tool	URL/Location	Purpose
Server Test	/api/test-sentry-server	Test server-side Sentry
Edge Test	/api/test-sentry-edge	Test edge runtime Sentry
Client Test Page	/test-sentry-client	Full UI for client testing
Debug Button	Operator dashboard (bottom-right)	Quick access to tests

Files Created/Modified

Created Files

- ✓ src/app/api/test-sentry-server/route.ts
- ✓ src/app/api/test-sentry-edge/route.ts
- ✓ src/app/test-sentry-client/page.tsx
- ✓ src/components/debug/SentryTestButton.tsx
- ✓ SENTRY_DEBUG_GUIDE.md
- ✓ SENTRY_DEBUG_SUMMARY.md

Modified Files

- ✓ sentry.client.config.ts - Enhanced debug logging
- ✓ sentry.server.config.ts - Enhanced debug logging
- ✓ sentry.edge.config.ts - Enhanced debug logging
- ✓ src/app/operator/layout.tsx - Added debug button

Required Render Environment Variables

```
# CRITICAL: This one is likely missing
NEXT_PUBLIC_SENTRY_DSN=https://your-key@sentry.io/your-project

# OPTIONAL: This one probably already works (server/edge show success)
SENTRY_DSN=https://your-key@sentry.io/your-project

# Best practice: Set BOTH
```

Expected Outcome

After deployment with the environment variable set:

In Logs

- ☒ All three configs show successful initialization
- ☒ `NEXT_PUBLIC_SENTRY_DSN` exists: `true`
- ☒ Test endpoints return success

In Sentry Dashboard

- ☒ Test events appear with 🐛 emoji
- ☒ Real production errors start appearing
- ☒ Full context and breadcrumbs attached



After Confirmation

Once everything is working:

1. Disable Debug Mode:

```
typescript
// In all three config files, change:
debug: true
// Back to:
debug: ENVIRONMENT === 'development'
```

2. Optional: Hide Debug Button:

```
bash
# Remove from Render env vars:
NEXT_PUBLIC_SHOW_DEBUG_TOOLS
```

3. Keep Test Endpoints:

- Useful for ongoing monitoring
- Can restrict to admins if needed



Quick Reference

Render Dashboard

```
Your Service → Environment → Add Variable
Name: NEXT_PUBLIC_SENTRY_DSN
Value: <your-sentry-dsn>
Save → Manual Deploy → Clear build cache ☒
```

Test Commands

```
# Server
curl https://your-app.onrender.com/api/test-sentry-server

# Edge
curl https://your-app.onrender.com/api/test-sentry-edge

# Client (browser)
https://your-app.onrender.com/test-sentry-client
```

Git Commands

```
git add .
git commit -m "debug: Add Sentry debugging"
git push origin main
```



Important Notes


1. **Must Clear Build Cache:** Restart alone won't work for `NEXT_PUBLIC_` variables
2. **Debug Mode is Temporary:** Produces verbose logs, disable after confirming
3. **Client-Side is the Focus:** Server/Edge already work, client needs fixing
4. **Test Endpoints are Safe:** No sensitive data exposed



Success Criteria

- [] `NEXT_PUBLIC_SENTRY_DSN` set in Render
- [] Application rebuilt with cache clear
- [] All three configs show successful init in logs
- [] Test endpoints return success
- [] Test events appear in Sentry dashboard
- [] Real errors start being captured

For detailed information, see: `SENTRY_DEBUG_GUIDE.md`

Status:  Ready for deployment

Next Step: Add environment variable to Render and deploy