



# Sentry Debug Implementation - Quick Summary

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**Date:** January 2, 2026

**Status:**  Ready for Deployment

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## 🎯 What Was Done

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### 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
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## 🔍 Key Finding: The Likely Issue

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### 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
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## 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
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## 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