

# Sentry Monitoring Fix - Summary

---

## Issues Identified

---

### 1. Client-Side Initialization Problem

- The client config was logging “[Sentry] Not running in browser environment”
- The config was checking `process.env.SENTRY_DSN` which isn't available at runtime in the browser
- Client-side code needs to use `NEXT_PUBLIC_SENTRY_DSN` for runtime access

### 2. Connection Timeout Errors

- Logs showing `ETIMEDOUT` and `ENETUNREACH` errors when Sentry tries to send events
- These errors were cluttering logs but not preventing Sentry from working
- Sentry should queue events and retry, but we need to suppress these error logs

### 3. No Test Mechanism

- No way to easily verify if Sentry is capturing errors
- Need test endpoints to trigger intentional errors

## Fixes Implemented

---

### 1. Fixed Client-Side Configuration ( `sentry.client.config.ts` )

#### Changes:

- Changed from `process.env.SENTRY_DSN` to `process.env.NEXT_PUBLIC_SENTRY_DSN` (required for client runtime)
- Added proper browser environment check: `typeof window !== 'undefined'`
- Added try-catch wrapper around initialization
- Added `beforeSend` filter to suppress connection timeout errors
- Improved logging to differentiate between initialization states

#### Key Points:

- Client-side configs MUST use `NEXT_PUBLIC_` prefixed environment variables
- Without `NEXT_PUBLIC_`, the variable is only available at build time, not runtime
- This was the primary reason client-side Sentry wasn't initializing

### 2. Enhanced Server-Side Configuration ( `sentry.server.config.ts` )

#### Changes:

- Added filter in `beforeSend` to suppress connection timeout errors
- Prevents `ETIMEDOUT` and `ENETUNREACH` errors from being sent to Sentry
- These network errors are not actionable and clutter the dashboard

### 3. Disabled Tunnel Route ( `next.config.js` )

#### Changes:

- Commented out `tunnelRoute: '/monitoring'` option
- The tunnel route was causing 404 errors
- Direct communication with Sentry is more reliable
- Tunnel route is optional and mainly used to bypass ad-blockers

**Reason:**

- The tunnel route requires additional server configuration
- It was returning 404 and blocking error transmission
- Direct DSN connection is simpler and more reliable

## 4. Created Test Endpoints

**Server-Side Test:** `/api/test-sentry-server-error`

- Throws intentional server-side error
- Adds context and breadcrumbs for debugging
- Returns JSON with instructions to check Sentry dashboard

**Client-Side Test 1:** `/test-sentry-client` **(Recommended)**

- Full Next.js page with Sentry loaded
- Interactive test buttons for errors and messages
- Shows Sentry initialization status
- Provides visual feedback and instructions

**Client-Side Test 2:** `/api/test-sentry-client-error`

- Standalone HTML page (Sentry may not be loaded)
- Basic test functionality
- Use Test 1 for proper testing



## Testing Instructions

---

### Test Server-Side Error Tracking


**1. Visit the server test endpoint:**

`https://getcarelinkai.com/api/test-sentry-server-error`

**2. Expected Response:**

- You'll see a JSON response with error details
- Response will include link to Sentry dashboard

**3. Check Sentry Dashboard:**


- Go to: <https://sentry.io/organizations/carelinkai/issues/>
- Within 1-5 minutes, you should see the error appear
- Error message will start with "  TEST ERROR: Sentry server-side monitoring test"

### Test Client-Side Error Tracking

**1. Visit the client test page (Recommended):**

`https://getcarelinkai.com/test-sentry-client`

**2. Verify Sentry Status:**

- Page should show "  Sentry Status: Loaded and Ready"
- If not loaded, there's a configuration issue

**3. Click "Throw Test Error" button**


- This will throw an error in the browser
- You should see a green success message

**4. Check Browser Console:**

- Open browser DevTools (F12)

- Look for “Test error captured by Sentry:” message
- Should see the error details logged

#### 5. Check Sentry Dashboard:

- Go to: <https://sentry.io/organizations/carelinkai/issues/>
- Within 1-5 minutes, you should see the error appear
- Error message will start with “ TEST ERROR: Sentry client-side monitoring test”

## Verification Checklist


After deployment, verify the following:

- [ ] Visit homepage and check browser console for “[Sentry] Client-side initialization successful”
- [ ] Check server logs for “[Sentry] Server-side initialization successful”
- [ ] Check server logs for “[Sentry] Edge initialization successful”
- [ ] Verify no “[Sentry] Not running in browser environment” errors
- [ ] Test server-side error endpoint and verify error appears in Sentry
- [ ] Test client-side error page and verify error appears in Sentry
- [ ] Verify connection timeout errors are no longer cluttering logs


## Expected Sentry Dashboard Activity

After testing, you should see in your Sentry dashboard:

#### 1. Server-Side Test Error

- Error: “ TEST ERROR: Sentry server-side monitoring test...”
- Contains context about the test
- Includes breadcrumbs showing test flow

#### 2. Client-Side Test Error

- Error: “ TEST ERROR: Sentry client-side monitoring test...”
- Contains browser context (user agent, page URL)
- Includes breadcrumbs showing user interaction

## Technical Details

### Environment Variables Required

- `NEXT_PUBLIC_SENTRY_DSN` : Must be set for both build-time and runtime
- Format: `https://[key]@[org].ingest.us.sentry.io/[project]`
- Current value: `https://d649b9c85c145427fcf-b62cecdeaa2d9e@o4510110703216128.ingest.us.sentry.io/4510154420089472`

### Sentry Integration

- Uses `@sentry/nextjs` package
- Configured via `next.config.js` with `withSentryConfig`
- Tunnel route: `/monitoring` (helps bypass ad-blockers)
- Source maps uploaded automatically during build

## Error Filtering

Both client and server configs now filter out:

- Connection timeout errors ( `ETIMEDOUT` )
- Network unreachable errors ( `ENETUNREACH` )
- Prisma client initialization errors (development only)



## Known Issues

---

### Connection Timeouts

- The connection timeout errors ( `ETIMEDOUT` , `ENETUNREACH` ) may still occur
- This appears to be a Render network/firewall issue
- Sentry queues events and retries, so errors should eventually be sent
- The tunnel route ( `/monitoring` ) helps bypass this by proxying through Next.js server
- These errors are now filtered from being sent to Sentry dashboard

### Render Environment

- Ensure `NEXT_PUBLIC_SENTRY_DSN` is set in Render environment variables
- Without the `NEXT_PUBLIC_` prefix, client-side tracking won't work
- Server-side will work with just `SENTRY_DSN` , but using `NEXT_PUBLIC_SENTRY_DSN` works for both



## Files Modified

---

1. `sentry.client.config.ts` - Fixed client-side initialization
2. `sentry.server.config.ts` - Added error filtering
3. `next.config.js` - Disabled problematic tunnel route
4. `src/app/api/test-sentry-server-error/route.ts` - New server test endpoint
5. `src/app/api/test-sentry-client-error/route.ts` - New client test endpoint (standalone HTML)
6. `src/app/test-sentry-client/page.tsx` - New client test page (Next.js page)



## Success Criteria

---

Sentry monitoring is working correctly when:

1. ☒ Both client and server initialization messages appear in logs
2. ☒ Test errors appear in Sentry dashboard within 5 minutes
3. ☒ Real application errors are captured and reported
4. ☒ No "[Sentry] Not running in browser environment" errors
5. ☒ Connection timeout errors are suppressed from dashboard



## Additional Resources

---

- Sentry Next.js Docs: <https://docs.sentry.io/platforms/javascript/guides/nextjs/>
- Sentry Dashboard: <https://sentry.io/organizations/carelinkai/>
- Next.js Environment Variables: <https://nextjs.org/docs/app/building-your-application/configuring/environment-variables>