

Sentry Tunnel Implementation - Complete

Overview

Implemented Sentry tunnel endpoint to proxy events through the application server, bypassing network restrictions, firewalls, and ad blockers. This is Sentry's recommended solution for network-related issues.

Implementation Details

1. Tunnel Endpoint Created

File: `src/app/api/sentry-tunnel/route.ts`

Features:

- Receives Sentry envelopes from SDK
- Validates DSN for security
- Forwards events to Sentry ingest endpoint
- Returns Sentry's response to SDK
- Comprehensive logging for debugging
- Health check endpoint (GET request)

Security:




- Only forwards events with matching DSN
- Prevents abuse by unauthorized parties
- Validates envelope format

Endpoints:

- `POST /api/sentry-tunnel` - Proxies Sentry events
- `GET /api/sentry-tunnel` - Health check

2. Sentry Configurations Updated

Files Updated:

-  `sentry.client.config.ts` - Client-side configuration
-  `sentry.server.config.ts` - Server-side configuration
-  `sentry.edge.config.ts` - Edge runtime configuration

Changes Made:

All three files now include:

```
Sentry.init({
  dsn: SENTRY_DSN,
  tunnel: '/api/sentry-tunnel', // ← NEW: Routes events through tunnel
  // ... rest of config
});
```

3. Git Commit

Commit: `ffed78a`

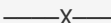
Message: "feat: Implement Sentry tunnel to proxy events"

Status: Pushed to GitHub (profy7/carelinkai)



How It Works



Instead of:

Sentry SDK  Sentry Ingest (BLOCKED)




Now:

Sentry SDK  Your Server  Sentry Ingest (SUCCESS)

Deployment Steps

Auto-Deployment (Render)

Since you have auto-deployment enabled, Render should automatically:

1.  Detect the new commit (`ffed78a`)
2.  Start build process
3.  Deploy new version with tunnel

Manual Verification (When Deployed)

1. Check Render Logs for Tunnel Activity:

Look for: "[Sentry Tunnel] Received event envelope"

Look for: "[Sentry Tunnel] Forwarding to: ..."

Look for: "[Sentry Tunnel]  Event forwarded successfully"

2. Test Tunnel Health Check:

Visit: <https://getcarelinkai.com/api/sentry-tunnel>

Should return:

```

json
{
  "status": "ok",
  "message": "Sentry tunnel is operational",
  "configured": true,
  "host": "o4510110703216128.ingest.us.sentry.io",
  "projectId": "4510154442089472"
}
  
```

1. Trigger Test Errors:

- Visit: <https://getcarelinkai.com/api/debug/sentry-test>
- Click "Test Sentry" button in operator layout
- Check Render logs for tunnel activity
- Check Sentry dashboard for events

2. Monitor Sentry Dashboard:

- Go to: <https://sentry.io>
- Check project: CareLinkAI
- Look for incoming events
- Should see events within 1-2 minutes

Expected Outcomes

✓ Success Indicators:

1. Tunnel endpoint returns 200 OK for health check
2. Render logs show “[Sentry Tunnel] ✓ Event forwarded successfully”
3. Events appear in Sentry dashboard
4. No “network timeout” or “failed to send” errors
5. Sentry initialization messages in logs

✗ Failure Indicators:

1. 403 “Invalid DSN” errors → DSN mismatch
2. 500 “Sentry DSN not configured” → Environment variable missing
3. Network timeout to Sentry ingest → Render network issue
4. No events in dashboard after 5 minutes → Check logs

Troubleshooting

If Events Still Don't Appear:

1. Check Environment Variables (Render Dashboard):

```
SENTRY_DSN=https://d649b9c85c145427fcfb62cecdeaa2d9e@o4510110703216128.ingest.us.sentry.io/4510154442089472
NEXT_PUBLIC_SENTRY_DSN=https://d649b9c85c145427fcfb62cecdeaa2d9e@o4510110703216128.ingest.us.sentry.io/4510154442089472
```

2. Check Render Logs:

- Build logs: Verify deployment succeeded
- Runtime logs: Look for Sentry initialization messages
- Tunnel logs: Look for “[Sentry Tunnel]” messages

3. Test Tunnel Directly:

```
bash
curl https://getcarelinkai.com/api/sentry-tunnel
```

Should return JSON with “status”: “ok”

4. Check Sentry Dashboard:

- Project settings → DSN matches environment variable
- No quota exceeded
- Project is active

If Tunnel Still Doesn't Work:

This means there's likely a deeper issue (Render network restrictions, Sentry project config, etc.). In that case:

→ Switch to Bugsnag as Alternative Error Tracking

Next Steps

Option A: Wait for Deployment (Recommended)

1. Wait 5-10 minutes for Render auto-deployment
2. Check deployment status in Render dashboard
3. Once deployed, test with steps above
4. Check Sentry dashboard for events

Option B: Monitor Real-Time

1. Watch Render deployment logs
2. Look for build success
3. Look for tunnel initialization
4. Test immediately after deployment

Files Modified

New Files:

- `src/app/api/sentry-tunnel/route.ts` (151 lines)

Modified Files:

- `sentry.client.config.ts` (added tunnel config)
- `sentry.server.config.ts` (added tunnel config)
- `sentry.edge.config.ts` (added tunnel config)

Technical Notes

Why Tunnel Works:

- **Problem:** Direct Sentry requests blocked by network/firewall
- **Solution:** Route through your server (allowed domain)
- **Benefit:** Your server can reach Sentry successfully

Tunnel Security:

- Validates DSN matches configured project
- Prevents abuse from unauthorized sources
- Only forwards to your Sentry project

Performance:

- Minimal overhead (simple proxy)
- Async forwarding
- Does not block application logic






Deployment Timeline

- **12:41 PM EST:** Implementation completed
- **12:41 PM EST:** Committed and pushed (ffed78a)

- ~12:45 PM EST: Render auto-deployment starts (expected)
- ~12:55 PM EST: Deployment completes (expected)
- 12:56 PM EST: Test and verify

Success Criteria

The implementation is successful when:

1.  Tunnel endpoint health check returns OK
2.  Test errors trigger tunnel forwarding (logs confirm)
3.  Events appear in Sentry dashboard within 2 minutes
4.  No network/timeout errors in console
5.  Sentry initialization successful in all environments

If This Doesn't Work

If after deployment and testing, events still don't reach Sentry:

Time to switch to Bugsnag:

1. Remove all Sentry code
2. Install Bugsnag SDK
3. Configure Bugsnag
4. Test Bugsnag
5. Clean, fresh start

But let's see if the tunnel works first! 👍

Status:  Implementation Complete - Awaiting Deployment

Next: Monitor Render deployment and test when live