

Render Deployment Monitoring Guide

Project: CareLinkAI

Deployment Date: December 8, 2025

Latest Commit: a5bb736

🎯 Quick Start: Where to Monitor

Primary Monitoring Location:

Render Dashboard: <https://dashboard.render.com/web/srv-d3isol3uibr73d5fm1g>

What You Should See:

1. Events Tab (Most Important)

This shows real-time deployment progress.

Expected Flow:

- 
- Deploy started
 - Installing dependencies...
 - Running build command...
 - Running Prisma migrations...
 - Generating Prisma client...
 - Building `Next.js` application...
 - Deploy live
 - Deploy succeeded

Timeline:

- Total time: 5-7 minutes
- If longer than 10 minutes, check logs for issues

📋 Step-by-Step Monitoring Process

STEP 1: Access Render Dashboard (Immediately)

1. Go to: <https://dashboard.render.com>
2. Sign in with your credentials
3. Navigate to the `carelinkai` service
4. Click on the “Events” tab

What to Look For:

- A new deployment should appear at the top
- Status should show “Deploy in progress”
- Commit hash should match: a5bb736

STEP 2: Watch the Build Logs (0-3 minutes)

Click on the deployment event to see detailed logs.

Expected Log Sequence:

```
==> Cloning from https://github.com/profy7/carelinkai...
==> Checking out commit a5bb736...

==> Installing dependencies
npm install
✓ Installed 234 packages

==> Running build command
npm run build
✓ Next.js build completed

==> Build successful
```

Red Flags to Watch For:

-  “npm install failed”
-  “Build error”
-  “TypeScript errors”
-  “Out of memory”

If You See Errors:

- Take a screenshot of the error
- Note the exact error message
- Check the troubleshooting section below

STEP 3: Monitor Prisma Migration (3-5 minutes)

Expected Migration Logs:

```
==> Running Prisma migrations
npx prisma migrate deploy

Prisma Migrate: deployment engine
Running migration: 20251208214408_phase3_compliance_family_updates

✓ Migration 20251208214408_phase3_compliance_family_updates applied

All migrations have been applied.
```

What This Means:

-  New database tables created (ResidentComplianceItem , FamilyContact)
-  Existing tables updated with new fields
-  Schema is now in sync with code

Migration Red Flags:

-  “Migration failed”
-  “Unique constraint violation”
-  “Column already exists” (should NOT happen - migration is idempotent)

If Migration Fails:

- Don't panic - idempotent design means it's safe to retry
 - Check if migration was partially applied
 - Review the migration SQL file for issues
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STEP 4: Application Startup (5-7 minutes)

Expected Startup Logs:

```
==> Starting service
▲ Starting Next.js server...
▲ Ready on http://0.0.0.0:3000

✓ Health check passed
✓ Deploy live
```

What to Look For:

- "Ready on http..." message
- No error stack traces
- Health check passing



Startup Red Flags:

- ✗ "Error: Cannot find module"
- ✗ "Database connection failed"
- ✗ "Port already in use"
- ✗ Application keeps restarting

STEP 5: Post-Deployment Verification (7-15 minutes)

Once deployment shows "✓ Deploy succeeded", test the application:

A. Basic Application Access

1. Open the application:
 - URL: <https://carelinkai.onrender.com>
 - Expected: Login page loads without errors
2. Log in:
 - Use admin credentials
 - Expected: Successfully authenticates

B. Test Phase 3 Features

1. Navigate to Residents Module:


```
Dashboard → Operator → Residents → [Select any resident]
```
2. Test Compliance Tab:
 - Click on "Compliance" tab
 - Expected: Tab loads without errors

- Expected: Shows “No compliance items” or existing items

- Create Test Item:

- Click “Add Compliance Item”
- Fill out form (type, status, dates)
- Click “Save”
- Expected: Item appears in list

3. Test Family Tab:

- Click on “Family” tab
- Expected: Tab loads without errors
- Expected: Shows “No family contacts” or existing contacts

- Create Test Contact:

- Click “Add Family Contact”
- Fill out form (name, relationship, contact info)
- Click “Save”
- Expected: Contact appears in list

C. Verify Data Persistence

1. Refresh the page
 2. Navigate back to Compliance/Family tabs
 3. Expected: Test data still visible (not lost)
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Where to Find Key Information

1. Build Logs

- **Location:** Render Dashboard → carelinkai service → Events → Click deployment
- **Shows:** Detailed build and migration output
- **Useful for:** Debugging build failures

2. Application Logs (Live Logs)

- **Location:** Render Dashboard → carelinkai service → Logs tab
- **Shows:** Real-time application output
- **Useful for:** Runtime errors, API requests, database queries

3. Metrics

- **Location:** Render Dashboard → carelinkai service → Metrics tab
- **Shows:** CPU, memory, response times
- **Useful for:** Performance monitoring

4. Environment Variables

- **Location:** Render Dashboard → carelinkai service → Environment tab
 - **Shows:** DATABASE_URL, API keys, etc.
 - **Useful for:** Verifying configuration
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Common Issues & Solutions

Issue 1: Build Takes Longer Than 10 Minutes

Possible Causes:

- Render server is slow
- npm install taking too long
- Next.js build is stuck

Solution:

- Wait another 5 minutes
 - If still stuck after 15 minutes, cancel and restart deployment
 - Check Render status page: <https://status.render.com>
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Issue 2: Migration Fails

Error: Migration already applied or Column already exists

Solution:

This is unusual given our idempotent migration design. To investigate:

1. Check database directly:

```
bash
# In Render Shell
psql $DATABASE_URL
\dt # List tables
\d "ResidentComplianceItem" # Check table structure
```

2. If needed, manually resolve:

```
bash
npx prisma migrate resolve --rolled-back 20251208214408_phase3_compliance_family_updates
```

Issue 3: Application Crashes on Startup

Error: “Cannot find module” or “Database connection failed”

Solution:

1. Check Environment Variables:

- Verify DATABASE_URL is set correctly
- Check all required env vars are present

1. Check Database Connection:

- Go to Render → PostgreSQL dashboard
- Verify database is running
- Check connection string format

2. Review Logs:

- Look for specific error messages
 - Note the stack trace
 - Check if Prisma client was generated
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Issue 4: Phase 3 Features Not Working

Symptoms:

- Compliance/Family tabs show errors
- API requests fail
- Data doesn't save

Solution:

1. Check Browser Console:

- Open Developer Tools (F12)
- Look for JavaScript errors
- Check Network tab for failed API requests

1. Check API Endpoints:

- Test directly: `https://carelinkai.onrender.com/api/residents/[id]/compliance`
- Expected: Returns JSON data or empty array

2. Check Database:

- Verify tables exist
- Verify migration was applied

```
bash
```

```
psql $DATABASE_URL
SELECT * FROM "_prisma_migrations" WHERE name LIKE '%phase3%';
```



Success Indicators

✓ Deployment Successful If:

1. Build Phase:

- All dependencies installed
- TypeScript compilation successful
- Next.js build completed
- No error messages in build logs

2. Migration Phase:

- Migration `20251208214408_phase3_compliance_family_updates` applied
- No database errors
- Prisma client generated successfully

3. Application Phase:

- Server starts and stays running
- Health check passes
- Application URL is accessible
- Login works

4. Feature Phase:

- Compliance tab loads
- Family tab loads
- Can create compliance items
- Can create family contacts
- Data persists after refresh

What Happens After Deployment

Auto-Deploy is Enabled

This Means:

- Every time you push to `main` branch, Render automatically deploys
- No manual intervention needed
- Deployment typically takes 5-7 minutes

To Disable Auto-Deploy (if needed):

1. Go to Render Dashboard → carelinkai service → Settings
2. Find “Auto-Deploy” section
3. Change from “On Commit” to “Manual Deploy”

Getting Help

If You Encounter Issues:

1. Check Render Status First:

- <https://status.render.com>
- Look for ongoing incidents

2. Review Recent Changes:

- Check if anyone else pushed code
- Review commit history: `git log`

3. Check Render Logs:

- Build logs for deployment errors
- Live logs for runtime errors
- Metrics for performance issues

4. Database Health:

- Go to Render → PostgreSQL dashboard
- Check connection count
- Check database size
- Run test queries

Screenshots to Take (For Documentation)

If you want to document the deployment:

1. Pre-Deployment:

- Screenshot of GitHub commits
- Screenshot of old application (before Phase 3)

2. During Deployment:

- Screenshot of Render Events showing “Deploy in progress”
- Screenshot of build logs
- Screenshot of migration logs

3. Post-Deployment:

- Screenshot of “Deploy succeeded” message
 - Screenshot of Compliance tab working
 - Screenshot of Family tab working
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Expected Timeline Summary

Phase	Time	What's Happening
Push to GitHub	0:00	Complete
Render Detects Changes	0:00-0:30	Webhook triggered
Build Starts	0:30-1:00	Dependencies installing
Build Completes	3:00-4:00	Next.js build finishes
Migration Runs	4:00-5:00	Database updated
Deploy Live	5:00-7:00	Application starts
Health Check	7:00-8:00	Verification complete
Ready for Testing	8:00+	Deployment complete



Your Next Steps

RIGHT NOW (Next 10 minutes):

1. **Go to Render Dashboard**
 - URL: <https://dashboard.render.com/web/srv-d3isol3uibr73d5fm1g>
 - Click on “Events” tab
 - Watch deployment progress
2. **Wait for “Deploy succeeded”**
 - Should appear in 5-7 minutes
 - Don’t interrupt the deployment

AFTER DEPLOYMENT SUCCEEDS (Next 15 minutes):

1. **Test the application**
 - Visit: <https://carelinkai.onrender.com>
 - Log in and navigate to Residents
 - Test Compliance and Family tabs
2. **Verify data persistence**
 - Create test compliance item

- Create test family contact
- Refresh page and verify they're still there

OPTIONAL (Later today):

1. Document the deployment

- Take screenshots of successful deployment
 - Update team on new features
 - Schedule demo for stakeholders
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Congratulations!

You've successfully deployed **Phase 3** of the CareLinkAI Residents Module!

New Features Now Live:

- Compliance tracking for residents
- Family contact management
- Permission-based access controls
- Expiry date tracking and alerts

What's Next:

- Phase 4: Advanced features (care plans, medication tracking)
 - User training on new features
 - Gathering feedback from operators
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Happy Monitoring!

If you have any questions or encounter issues, refer to the troubleshooting section or check the deployment logs.