

# Railway Deployment Troubleshooting Guide

**Last Updated:** October 23, 2025




**Issue:** Railway is still using the FRONTEND Dockerfile instead of BACKEND Dockerfile

**Status:** GitHub is correct  | Railway needs configuration update 

## Verification Completed

### 1. GitHub Repository State - CONFIRMED CORRECT

We have verified that the GitHub repository is in the correct state:

-  **Root railway.json REMOVED** - No longer causing conflicts
-  **Latest commits pushed:**
  - 7c4bf8d - Fix: Remove root railway.json to fix backend deployment
  - ed30de7 - Add solution summary document
-  **Backend configuration intact:**
  - backend/railway.json exists with correct Dockerfile reference
  - backend/Dockerfile is the correct Node.js backend (NOT nginx)
  - backend/railway.toml exists

### 2. Current Problem Analysis

Railway is **STILL USING THE FRONTEND DOCKERFILE** as evidenced by these error logs:

```
[stage-1 1/3] FROM docker.io/library/nginx:alpine
[stage-1 2/3] COPY --from=builder /app/dist /usr/share/nginx/html
ERROR: "/app/dist": not found
```

**This means Railway is:**

- Using the root Dockerfile (frontend) instead of backend/Dockerfile
- Looking for nginx.conf at the root level
- Trying to build a React frontend instead of Node.js backend

## Root Cause Analysis

Railway is failing because of **ONE OR MORE** of these reasons:

### 1. Root Directory NOT Set to “backend/”

**Most Likely Issue**

Railway needs to know to look in the backend/ directory. If this isn't set:

- Railway looks at the root directory

- Finds the root `Dockerfile` (frontend)
- Ignores `backend/railway.json`

## 2. Railway Hasn't Auto-Deployed New Commits

Railway may not have triggered a new deployment after your fixes.

## 3. Railway Configuration Cache

Railway might be caching the old configuration even after commits.

## 4. Viewing Old Deployment Logs


You might be looking at logs from a deployment BEFORE the fix.



## IMMEDIATE VERIFICATION CHECKLIST

Follow these steps in the Railway dashboard:

### Step 1: Verify You're Looking at the Latest Deployment

1. Go to Railway dashboard → Your project → `workigom` service
2. Look at the **Deployments** tab
3. Check the **commit hash** of the latest deployment
4.  **VERIFY:** Is it showing commit `7c4bf8d` or `ed30de7` ?



**If NO:** Railway hasn't deployed the latest commits → Go to Step 2

**If YES:** Railway has the commits but wrong config → Go to Step 3

### Step 2: Trigger a Manual Deployment

If Railway hasn't picked up the new commits:

1. Go to the **Deployments** tab
2. Click **"Deploy"** button (top right)
3. Select **"Redeploy from Latest Commit"**
4. Wait for deployment to start
5. Check the **Build Logs** for:  

Using Detected Dockerfile
6. **Look for:** Does it mention `nginx:alpine` or `node:20-alpine` ?
  - `nginx:alpine` =  WRONG (frontend Dockerfile)
  - `node:20-alpine` =  CORRECT (backend Dockerfile)

### Step 3: Verify Root Directory Setting ⚡ CRITICAL

**This is the most important setting!**

1. Go to your `workigom` service in Railway
2. Click on the **Settings** tab
3. Scroll down to find **"Root Directory"** or **"Source"** section

#### 4. Check the current value:

✗ **If it shows:** (empty) or / or frontend/

- This is WRONG! Railway is looking at the root directory

✓ **Should be:** backend or backend/

- This tells Railway to work from the backend directory

1. If it's wrong or empty, SET IT TO: backend
2. Click **"Save"** or **"Update"**
3. This should **automatically trigger a new deployment**

## Step 4: Verify Which Dockerfile Railway is Using

After setting Root Directory, check the build logs:

1. Go to **Deployments** → Latest deployment
2. Look at the **Build Logs**
3. Find this line:

```
Using Detected Dockerfile
```

4. Below it, check what's being pulled:

✓ **CORRECT:**

```
[internal] load metadata for docker.io/library/node:20-alpine
[builder 1/6] FROM docker.io/library/node:20-alpine
COPY package*.json ./
RUN npm ci
```

✗ **WRONG (what you're seeing now):**

```
[internal] load metadata for docker.io/library/nginx:alpine
[stage-1 1/3] FROM docker.io/library/nginx:alpine
COPY --from=builder /app/dist /usr/share/nginx/html
```



## NUCLEAR OPTION: Fresh Start

If the above steps don't work, here's the "nuclear option" to force Railway to forget everything:

### Option A: Disconnect and Reconnect Service (Recommended)

1. Go to Railway project → workigom service
2. Go to **Settings** tab
3. Scroll to **"Danger Zone"**
4. Click **"Remove Service"** (Don't worry, this won't delete your code!)
5. Confirm removal
6. Click **" + New Service "**
7. Select **"GitHub Repo"**
8. Choose volkanakbulut73/workigom

9. **IMPORTANT:** When configuring:
  - Set **Root Directory** = `backend`
  - Set **Branch** = `master`
10. Configure environment variables (if any)
11. Deploy!

## Option B: Force New Build from Scratch

1. Go to **Settings** → **“Danger Zone”**
2. Find **“Clear Build Cache”** or similar option
3. Click it to clear all cached layers
4. Go to **Deployments**
5. Click **“Deploy”** → **“Redeploy from Latest Commit”**

## Success Indicators

You’ll know it’s working when you see these in the logs:

### Correct Build Logs Should Show:

```
Using Detected Dockerfile
====

[internal] load metadata for docker.io/library/node:20-alpine
[builder 1/6] FROM docker.io/library/node:20-alpine

# Prisma-related steps
[builder] RUN npm run prisma:generate

# TypeScript compilation
[builder] RUN npm run build

# Final stage
FROM node:20-alpine
COPY package*.json ./
RUN npm ci --only=production
COPY --from=builder /app/dist ./dist
COPY --from=builder /app/prisma ./prisma
```

### Successful Deployment Should Show:

- ✓ Build successful
- ✓ Starting deployment
- ✓ Health check passed at /api/health
- ✓ Deployment successful

### WRONG - What You’re Currently Seeing:

```
[internal] load metadata for docker.io/library/nginx:alpine
[stage-1 1/3] FROM docker.io/library/nginx:alpine
[stage-1 2/3] COPY --from=builder /app/dist /usr/share/nginx/html
ERROR: "/app/dist": not found
```



## Quick Diagnostic Commands

If you have Railway CLI installed:

```
# Check current deployment status
railway status

# View current service settings
railway service

# Trigger manual deployment
railway up

# Check environment variables
railway variables
```



## Visual Checklist - What to Look For

### In Railway Dashboard:

1. **Project Name:** Should show your project (e.g., “grand-vibrancy” or “profound-vitality”)
2. **Service Name:** Should show “workigom”
3. **GitHub Icon:** Should show `volkanakbulut73/workigom`
4. **Branch:** Should show “master” or “main”
5. **Root Directory:** Should show “backend” ⚠ THIS IS KEY
6. **Latest Commit:** Should show `7c4bf8d` or `ed30de7`

### In Build Logs:

1. **Dockerfile Detection:** Should say “Using Detected Dockerfile”
2. **Docker Image:** Should be `node:20-alpine` (NOT `nginx:alpine`)
3. **Copy Commands:** Should reference `dist/` and `prisma/` (NOT `/app/dist`)
4. **No nginx references:** Should NOT see “nginx.conf” anywhere



## Still Not Working?

If you’ve tried all the above and it’s still failing:

### Double-Check These:

1. **Is your Railway project pointing to the correct GitHub repo?**
  - Repo: `volkanakbulut73/workigom`
  - Branch: `master`
2. **Is the Root Directory setting saved?**
  - Sometimes Railway doesn’t save the setting properly
  - Try setting it, saving, refreshing the page, and checking again

### 3. Are you looking at the right service?

- If you have multiple services, make sure you're configuring the backend one

### 4. Check Railway service settings match these:

Root Directory: `backend`

Branch: `master`

Build Command: (empty - uses `railway.json`)

Start Command: (empty - uses `railway.json`)

Dockerfile Path: (empty - uses default Dockerfile in `backend/`)



## Next Steps

1. **FIRST:** Check Root Directory setting in Railway Settings → Source
2. **SECOND:** If wrong, set it to `backend` and save
3. **THIRD:** Wait for auto-deployment or trigger manual deployment
4. **FOURTH:** Check build logs for `node:20-alpine` (not `nginx`)
5. **FIFTH:** If still wrong, use the Nuclear Option



## Summary

### The Fix is Simple:

1. Your code on GitHub is CORRECT ✓
2. Railway just needs the **Root Directory** setting updated to `backend`
3. This tells Railway to work from the backend folder
4. Railway will then find `backend/railway.json` and use the correct Dockerfile

### Expected Outcome:

- Railway will build using `backend/Dockerfile` (Node.js backend)
- Will use `backend/railway.json` for configuration
- Will deploy your NestJS backend successfully
- Health check at `/api/health` will pass



## Related Documentation

- [RAILWAY\\_ROOT\\_DIRECTORY\\_FIX.md](#) (./RAILWAY\_ROOT\_DIRECTORY\_FIX.md) - Detailed fix explanation
- [SOLUTION\\_SUMMARY.md](#) (./SOLUTION\_SUMMARY.md) - What we did to fix it
- [backend/RAILWAY\\_DEPLOYMENT\\_GUIDE.md](#) (./backend/RAILWAY\_DEPLOYMENT\_GUIDE.md) - Backend deployment guide

### Need Help? Take screenshots of:

1. Railway Settings → Source/Root Directory section

2. Latest deployment build logs (first 50 lines)
3. Railway service overview showing commit hash

This will help diagnose the exact issue!