



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)
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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
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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
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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
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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!