

# Drizzle ORM Migration - Deployment Summary

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## ✓ COMPLETED TASKS

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### 1. GitHub Repository - SUCCESSFULLY UPDATED ✓

- **Repository:** <https://github.com/dfultonthebar/Sports-Bar-TV-Controller>
- **Branch:** main
- **Status:** All Drizzle ORM migration changes are pushed and available

#### Recent Commits:

```
e9298d9 - feat: Complete Prisma to Drizzle ORM migration
1de8c59 - docs: Add comprehensive Drizzle ORM migration summary
c2989c9 - feat: Migrate from Prisma ORM to Drizzle ORM
```

### 2. Migration Changes Summary

#### Dependencies Removed:

- prisma
- @prisma/client

#### Dependencies Added:

- drizzle-orm (Core ORM library)
- drizzle-kit (Migration and schema management)
- better-sqlite3 (Database driver)

#### New npm Scripts:

```
"db:generate": "drizzle-kit generate"
"db:migrate": "drizzle-kit migrate"
"db:push": "drizzle-kit push"
"db:studio": "drizzle-kit studio"
```

#### Key Files Created/Modified:

- drizzle.config.ts - Drizzle configuration
- src/db/schema.ts - Database schema (10,162 bytes)
- src/db/index.ts - Database connection setup
- src/db/helpers.ts - Database helper functions



## PENDING TASK: Remote Server Deployment

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### Issue Encountered

Cannot connect to remote server at 24.123.187.42:

- SSH port 22: Connection timeout
- RDP port 3389: Connection timeout

**Possible Causes:**

1. Server is behind a firewall blocking external connections
2. Server requires VPN access
3. Server may be offline
4. Network configuration restricts access

**Required Manual Steps**

You will need to manually deploy to the remote server. Here's the complete process:

**Step 1: Connect to Remote Server**

Use one of these methods:

- **RDP:** Connect to 24.123.187.42:3389
- **SSH:** ssh Administrator@24.123.187.42
- **Credentials:** Administrator / 6809233DjD\$\$\$

**Step 2: Navigate to Project Directory**

```
# Windows
cd C:\path\to\Sports-Bar-TV-Controller

# Linux
cd /path/to/Sports-Bar-TV-Controller
```

**Step 3: Pull Latest Changes**

```
git pull origin main
```

**Step 4: Update Dependencies**

```
# Remove old Prisma packages
npm uninstall prisma @prisma/client

# Install all dependencies (includes Drizzle)
npm install
```

**Step 5: Setup Database**

```
# Push schema to database
npm run db:push
```

## Step 6: Rebuild and Restart

```
# Build the application
npm run build

# Restart the application
# If using PM2:
pm2 restart tv-controller

# If using npm directly:
npm start

# If in development:
npm run dev
```

## Quick Deployment Script (Windows PowerShell)

Save this as `deploy.ps1` on the remote server and run it:

```
Write-Host "🚀 Deploying Drizzle ORM Migration..." -ForegroundColor Green

Set-Location "C:\path\to\Sports-Bar-TV-Controller"

Write-Host "📦 Pulling latest changes..." -ForegroundColor Cyan
git pull origin main

Write-Host "🗑️ Removing Prisma..." -ForegroundColor Yellow
npm uninstall prisma @prisma/client

Write-Host "📦 Installing dependencies..." -ForegroundColor Cyan
npm install

Write-Host "🗄️ Setting up database..." -ForegroundColor Cyan
npm run db:push

Write-Host "🔨 Building application..." -ForegroundColor Cyan
npm run build

Write-Host "🔄 Restarting application..." -ForegroundColor Cyan
pm2 restart tv-controller

Write-Host "✅ Deployment complete!" -ForegroundColor Green
```

## Quick Deployment Script (Linux/Mac Bash)

Save this as `deploy.sh` on the remote server and run it:

```
#!/bin/bash
set -e

echo "🚀 Deploying Drizzle ORM Migration..."
cd /path/to/Sports-Bar-TV-Controller

echo "📦 Pulling latest changes..."
git pull origin main

echo "🗑️ Removing Prisma..."
npm uninstall prisma @prisma/client

echo "📦 Installing dependencies..."
npm install

echo "🗄️ Setting up database..."
npm run db:push

echo "🔨 Building application..."
npm run build

echo "🔄 Restarting application..."
pm2 restart tv-controller || npm start

echo "✅ Deployment complete!"
```

## Verification Checklist

After deployment, verify:

- [ ] Application starts without errors
- [ ] Database connection works (check logs)
- [ ] Can read/write to database
- [ ] Atlas Atmosphere DSP connection works
- [ ] All TV controller features operational
- [ ] No Prisma-related errors in logs

## What Changed in the Migration

### Database Schema

The schema remains functionally identical but is now defined using Drizzle's syntax:




- All tables preserved
- All relationships maintained
- All constraints intact

### Code Changes

- Database queries now use Drizzle syntax
- Type safety improved with Drizzle's TypeScript integration
- Better performance with Drizzle's query builder

### Benefits

-  Lighter weight (no Prisma Client generation)

-  Better TypeScript integration
-  More control over queries
-  Faster development iteration

## Troubleshooting

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### If Database Connection Fails

1. Check `.env` file has correct `DATABASE_URL`
2. Verify PostgreSQL/SQLite is running
3. Run `npm run db:push` again

### If Application Won't Start

1. Check logs: `pm2 logs tv-controller`
2. Verify all dependencies installed: `npm install`
3. Try rebuilding: `npm run build`

### If Features Don't Work

1. Check for migration errors in logs
2. Verify database schema: `npm run db:studio`
3. Test database queries manually

## Support

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- **GitHub Issues:** <https://github.com/dfultonthebar/Sports-Bar-TV-Controller/issues>
- **Drizzle Docs:** <https://orm.drizzle.team/>
- **Migration Guide:** See `DEPLOYMENT_GUIDE.md` in repository

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**Summary:** GitHub repository is fully updated with Drizzle ORM migration. Remote server deployment requires manual access due to network connectivity restrictions. Follow the steps above to complete the deployment.