

Studio 2 - Vercel Deployment Guide

Complete step-by-step guide to deploy your Studio 2 NextJS application to Vercel using GitHub.

Prerequisites

Before you begin, ensure you have:

- [x] GitHub account
 - [x] Vercel account (sign up at vercel.com (<https://vercel.com>))
 - [x] Your app code pushed to GitHub repository: <https://github.com/Stefanbotes/Studiov2.git>
 - [x] A PostgreSQL database (Vercel Postgres or external provider)
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Quick Start Deployment

Step 1: Push Code to GitHub

If you haven't already pushed your code to GitHub, follow these steps:

```
# Navigate to your project directory
cd /home/ubuntu/studio_2_app/nextjs_space

# Check git status
git status

# Add all files
git add .

# Commit changes
git commit -m "Prepare for Vercel deployment: Update configs and add deployment docs"

# Push to GitHub (you'll need to authenticate)
git push -u origin master
```

Note: You may need to authenticate with GitHub. Use a [Personal Access Token](https://github.com/settings/tokens) (<https://github.com/settings/tokens>) as your password.

Step 2: Import Project to Vercel

1. Go to Vercel Dashboard

- Visit vercel.com/dashboard (<https://vercel.com/dashboard>)
- Click **"Add New..."** → **"Project"**

2. Import Git Repository

- Click **“Import”** next to your GitHub repository
- If you don't see your repository:
 - Click **“Adjust GitHub App Permissions”**
 - Grant Vercel access to your `Studiov2` repository
 - Return to the import page

3. Configure Project

- **Project Name:** `studio2-app` (or your preferred name)
- **Framework Preset:** Next.js (should be detected automatically)
- **Root Directory:** `./` (leave as default if your Next.js app is in the repo root)

IMPORTANT: If your Next.js app is in a subdirectory (like `nextjs_space`):

- Set **Root Directory** to `nextjs_space`
 - **Build and Output Settings:** (Leave as default)
 - Build Command: `next build` (automatically uses `vercel.json` config)
 - Output Directory: `.next`
 - Install Command: `npm install`

1. Skip Environment Variables for Now

- Click **“Deploy”** without adding environment variables
- The first deployment will fail (expected), but we'll fix this next

Step 3: Set Up Database

Option A: Vercel Postgres (Easiest)

1. In your Vercel project dashboard:
 - Click **“Storage”** tab
 - Click **“Create Database”**
 - Select **“Postgres”**
 - Choose a database name: `studio2-db`
 - Click **“Create”**
2. Vercel automatically adds `DATABASE_URL` to your environment variables!
3. Connect to database and run migrations:

```
```bash
Install Vercel CLI
npm i -g vercel
```

```
Login to Vercel
vercel login
```

```
Link your project
vercel link
```

```
Pull environment variables
vercel env pull .env.local
```

```
Run migrations
npx prisma migrate deploy
```

```
(Optional) Seed the database
npm run prisma:seed
...
```

## Option B: External PostgreSQL Provider

Choose one of these providers:

### Supabase (Recommended for free tier)

1. Go to [supabase.com](https://supabase.com) (<https://supabase.com>)
2. Create a new project
3. Go to Settings → Database
4. Copy the “URI” connection string
5. Add to Vercel (see Step 4)

### Railway (Good for scalability)

1. Go to [railway.app](https://railway.app) (<https://railway.app>)
2. Create new project → Add PostgreSQL
3. Copy “Postgres Connection URL”
4. Add to Vercel (see Step 4)

### Neon (Serverless Postgres)

1. Go to [neon.tech](https://neon.tech) (<https://neon.tech>)
2. Create a new project
3. Copy connection string
4. Add to Vercel (see Step 4)

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## Step 4: Configure Environment Variables

1. In your Vercel project dashboard:
  - Click “**Settings**” tab
  - Click “**Environment Variables**” in the sidebar
2. Add the following environment variables:

### Required Variables:

Variable Name	Value	Description
<code>DATABASE_URL</code>	Your PostgreSQL connection string	From Step 3 (if not using Vercel Postgres)
<code>NEXTAUTH_SECRET</code>	Generate with <code>openssl rand -base64 32</code>	Secret for NextAuth.js
<code>NEXTAUTH_URL</code>	<code>https://your-app.vercel.app</code>	Your deployment URL (update after first deploy)

## Optional Variables (AWS S3):

Variable Name	Example Value	Description
<code>AWS_PROFILE</code>	<code>hosted_storage</code>	AWS profile name
<code>AWS_REGION</code>	<code>us-west-2</code>	AWS region
<code>AWS_BUCKET_NAME</code>	<code>your-bucket-name</code>	S3 bucket name
<code>AWS_FOLDER_PREFIX</code>	<code>uploads/</code>	S3 folder prefix
<code>AWS_ACCESS_KEY_ID</code>	Your AWS access key	AWS credentials
<code>AWS_SECRET_ACCESS_KEY</code>	Your AWS secret key	AWS credentials

- For each variable:
  - Enter **Key** (variable name)
  - Enter **Value**
  - Select environments:
    - ☒ Production
    - ☒ Preview
    - ☒ Development
    - Click **“Save”**

## Step 5: Generate NEXTAUTH\_SECRET

If you don't have a `NEXTAUTH_SECRET`, generate one:

```
On Mac/Linux
openssl rand -base64 32

Or use this online tool
https://generate-secret.vercel.app/32
```

Copy the generated secret and add it to Vercel environment variables.

## Step 6: Deploy

- Trigger Deployment**
  - Go to **“Deployments”** tab
  - Click on the failed deployment
  - Click **“Redeploy”**

Or push a new commit to GitHub:

```
bash
```

```
git commit --allow-empty -m "Trigger Vercel deployment"
git push
```

### 1. Monitor Build

- Watch the build logs in real-time
- Check for any errors
- Build should complete in 2-5 minutes

### 2. Update NEXTAUTH\_URL

- Once deployed, copy your deployment URL (e.g., `https://studio2-app.vercel.app` )
- Update `NEXTAUTH_URL` environment variable with this URL
- Redeploy one more time

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## Step 7: Run Database Migrations

After successful deployment, run Prisma migrations:

```
Using Vercel CLI
vercel env pull .env.local
npx prisma migrate deploy

Optional: Seed initial data
npm run prisma:seed
```

Or use the Vercel dashboard:

- Go to your project
- Click **“Settings”** → **“Functions”**
- Enable **“Serverless Function”** for migrations
- Create a migration API endpoint (if needed)

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## Step 8: Verify Deployment

### 1. Visit Your App

- Open your deployment URL: `https://your-app.vercel.app`
- Test login functionality
- Check database connectivity

### 2. Check Logs

- Go to **“Deployments”** tab
- Click on your deployment
- View **“Function Logs”** for any runtime errors

### 3. Test Features

- User authentication
  - Client profile management
  - Coaching sessions
  - Data import/export
  - JSON import functionality
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## Post-Deployment Configuration

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### Custom Domain (Optional)

1. Go to **“Settings”** → **“Domains”**
2. Click **“Add”**
3. Enter your custom domain: `studio2.yourdomain.com`
4. Follow DNS configuration instructions
5. Update `NEXTAUTH_URL` to your custom domain
6. Redeploy

### Enable Preview Deployments

Preview deployments are automatically created for:

- Pull requests
- Branches pushed to GitHub

Each preview gets a unique URL like:

`https://studio2-app-git-feature-branch.vercel.app`

### Set Up Monitoring

1. Enable **Vercel Analytics**:
  - Go to **“Analytics”** tab
  - Click **“Enable Analytics”**
2. Enable **Vercel Speed Insights**:
  - Go to **“Speed Insights”** tab
  - Click **“Enable Speed Insights”**

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## Deployment Checklist

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Before going live, verify:

- ☐ All environment variables are set correctly
  - ☐ Database migrations have been run successfully
  - ☐ Authentication works (login/logout)
  - ☐ Client profiles can be created and viewed
  - ☐ Coaching sessions functionality works
  - ☐ JSON import/export works
  - ☐ Custom domain configured (if applicable)
  - ☐ HTTPS is working (automatic with Vercel)
  - ☐ No console errors in browser
  - ☐ Mobile responsive design works
  - ☐ Performance is acceptable (check Speed Insights)
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## Security Considerations

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### 1. Environment Variables

- Never commit `.env` files to git
- Use different secrets for production vs preview
- Rotate `NEXTAUTH_SECRET` periodically

### 2. Database

- Enable SSL connections (default with Vercel Postgres)
- Restrict database access to Vercel IP ranges
- Regular backups (automatic with Vercel Postgres)

### 3. Authentication

- Use strong password requirements
- Enable rate limiting (consider using middleware)
- Monitor failed login attempts

### 4. API Routes

- Validate all inputs
  - Use authentication middleware
  - Rate limit API endpoints
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## Monitoring and Maintenance

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### View Logs

```
Real-time logs
vercel logs --follow

Recent logs
vercel logs
```

### Monitor Performance

- Check **Speed Insights** in Vercel dashboard
- Monitor **Function Duration** and **Invocations**
- Set up alerts for errors

### Database Maintenance

- Regular backups
  - Monitor connection pool usage
  - Optimize slow queries
  - Run `VACUUM` periodically
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## Troubleshooting

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### Build Failures

**Error: "Module not found"**

```
Solution: Ensure all dependencies are in package.json
npm install <missing-package> --save
git commit -am "Add missing dependency"
git push
```

### Error: “Prisma Client not found”

```
Solution: Add postinstall script in package.json
"scripts": {
 "postinstall": "npx prisma generate"
}
```

## Runtime Errors

### Error: “Invalid prisma.client invocation”

- Check `DATABASE_URL` is set correctly
- Verify database is accessible
- Run migrations: `npx prisma migrate deploy`

### Error: “NEXTAUTH\_URL is required”

- Add `NEXTAUTH_URL` environment variable
- Must match your actual deployment URL

## Database Issues

### Connection timeout

- Add `?connect_timeout=15` to `DATABASE_URL`
- Check database provider status
- Verify connection pool settings

### Migration failed

- Check database permissions
- Verify `DATABASE_URL` format
- Run migrations manually with Vercel CLI



## Additional Resources

- [Vercel Documentation](https://vercel.com/docs) (https://vercel.com/docs)
  - [Next.js Deployment](https://nextjs.org/docs/deployment) (https://nextjs.org/docs/deployment)
  - [Prisma with Vercel](https://www.prisma.io/docs/guides/deployment/deployment-guides/deploying-to-vercel) (https://www.prisma.io/docs/guides/deployment/deployment-guides/deploying-to-vercel)
  - [NextAuth.js Configuration](https://next-auth.js.org/configuration/options) (https://next-auth.js.org/configuration/options)
  - [Vercel CLI Reference](https://vercel.com/docs/cli) (https://vercel.com/docs/cli)
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## Success!

Your Studio 2 app should now be live on Vercel!

**Deployment URL:** `https://your-app.vercel.app`



Share the link with your users and start coaching! 🚀

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## Support

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If you encounter any issues:

1. Check the [Troubleshooting section](#)
  2. Review [Vercel documentation](https://vercel.com/docs) (<https://vercel.com/docs>)
  3. Check build logs in Vercel dashboard
  4. Review environment variables configuration
  5. Verify database connectivity
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## Updating Your Deployment

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To deploy updates:

```
Make your changes
git add .
git commit -m "Your update message"
git push

Vercel automatically deploys on push to master
Preview deployments are created for other branches
```

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