Vercel Environment Variables Configuration

This document outlines all environment variables required for deploying Studio 2 to Vercel.

Required Environment Variables

1. Database Configuration

DATABASE_URL (REQUIRED)

- Description: PostgreSQL database connection string
- Format: postgresql://USER:PASSWORD@HOST:PORT/DATABASE?connect timeout=15
- Example: postgresql://user:pass@host.db.vercel.app:5432/dbname?connect timeout=15
- Where to Set: Vercel Dashboard → Project Settings → Environment Variables
- Important Notes:
- You can use **Vercel Postgres** (recommended for easy setup)
- Or use an external PostgreSQL provider (Supabase, Railway, Neon, etc.)
- Ensure connect timeout=15 is included for better reliability

2. NextAuth Configuration

NEXTAUTH SECRET (REQUIRED)

- **Description**: Secret key for NextAuth.js session encryption
- How to Generate:

bash

openssl rand -base64 32

Or use any random string generator

- **Example**: JiwMZ945W995hca62G5VYmrLaKKqsvf0
- Where to Set: Vercel Dashboard → Project Settings → Environment Variables
- Security: NEVER commit this to git or share publicly

NEXTAUTH URL (REQUIRED)

- Description: Base URL of your deployed application
- Format: https://your-app-name.vercel.app
- Example: https://studio2-app.vercel.app
- Where to Set: Vercel Dashboard → Project Settings → Environment Variables
- Important: Update this after your first deployment with the actual Vercel URL

3. AWS Configuration (OPTIONAL)

These are only needed if you're using AWS S3 for file storage:

AWS_PROFILE (Optional)

• **Description**: AWS profile name

• **Default**: hosted_storage

AWS REGION (Optional)

• Description: AWS region for S3 bucket

• Example: us-west-2

AWS_BUCKET_NAME (Optional)

- Description: S3 bucket name for file uploads
- Example: your-studio2-bucket

AWS_FOLDER_PREFIX (Optional)

- Description: Folder prefix for organizing files in S3
- Example: uploads/

AWS ACCESS KEY ID (Optional)

- Description: AWS access key for S3 operations
- Security: Keep this secret

AWS_SECRET_ACCESS_KEY (Optional)

- Description: AWS secret access key for S3 operations
- Security: Keep this secret

Setting Environment Variables in Vercel

Step 1: Navigate to Environment Variables

- 1. Go to Vercel Dashboard (https://vercel.com/dashboard)
- 2. Select your project
- 3. Click on **Settings** tab
- 4. Click on Environment Variables in the sidebar

Step 2: Add Each Variable

- 1. Enter the **Key** (variable name, e.g., DATABASE URL)
- 2. Enter the Value (the actual value)
- 3. Select which environments to apply to:
 - **Production** (for your live site)
 - **Preview** (for pull request deployments)
 - **Development** (for local development with vercel dev)
- 4. Click Save

Step 3: Redeploy

After adding or updating environment variables, trigger a new deployment:

- Go to **Deployments** tab
- Click on the latest deployment
- Click Redeploy

Database Setup Options

Option 1: Vercel Postgres (Recommended for Beginners)

- 1. Go to your Vercel project
- 2. Click on Storage tab
- 3. Click Create Database → Postgres

- 4. Follow the setup wizard
- 5. Vercel will automatically add DATABASE_URL to your environment variables
- 6. Run migrations: npx prisma migrate deploy

Option 2: External PostgreSQL Provider

Supabase

- 1. Create account at supabase.com (https://supabase.com)
- 2. Create a new project
- 3. Get connection string from Project Settings → Database
- 4. Use the "URI" connection string format
- 5. Add to Vercel as DATABASE URL

Railway

- 1. Create account at railway.app (https://railway.app)
- 2. Create new project → Add PostgreSQL
- 3. Copy the "Postgres Connection URL"
- 4. Add to Vercel as DATABASE URL

Neon

- 1. Create account at neon.tech (https://neon.tech)
- 2. Create a new project
- 3. Copy the connection string
- 4. Add to Vercel as DATABASE URL

Running Database Migrations on Vercel

After setting up your database, you need to run Prisma migrations:

Method 1: Automatic (via build script)

The vercel.json includes npx prisma generate in the build command, which handles schema generation.

To run migrations, add this to your package.json:

```
{
  "scripts": {
    "postinstall": "npx prisma generate",
    "vercel-build": "npx prisma migrate deploy && next build"
  }
}
```

Method 2: Manual (via Vercel CLI)

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

# Login
vercel login

# Link to your project
vercel link

# Run migrations
vercel env pull .env.local
npx prisma migrate deploy
```

Environment Variables Checklist

Before deploying, ensure you have set:

- [] DATABASE URL PostgreSQL connection string
- [] NEXTAUTH SECRET Generated secret for authentication
- [] NEXTAUTH URL Your Vercel deployment URL
- [] AWS variables (if using S3 storage)
- [] Any custom API keys or secrets your app uses

Security Best Practices

- 1. Never commit .env files to git They're in .gitignore for a reason
- 2. **Use** .env.example Document required variables without exposing secrets
- 3. Rotate secrets regularly Especially after team member changes
- 4. Use different secrets Different values for production vs. preview environments
- 5. Limit access Only give team members access to production secrets if necessary

Troubleshooting

"Invalid prisma.client invocation"

- Ensure DATABASE URL is set correctly
- Check database is accessible from Vercel's IP ranges
- · Verify connection string format

"NEXTAUTH_URL is not defined"

- Add NEXTAUTH_URL to environment variables
- Must match your actual deployment URL

Database connection timeout

- Add ?connect_timeout=15 to your connection string
- Check your database provider's connection limits

Prisma Client not generated

- Ensure npx prisma generate runs during build
- Check build logs in Vercel dashboard

Need Help?

- Vercel Environment Variables Docs (https://vercel.com/docs/concepts/projects/environment-variables)
- Vercel Postgres Docs (https://vercel.com/docs/storage/vercel-postgres)
- NextAuth.js Docs (https://next-auth.js.org/configuration/options)
- Prisma with Vercel Docs (https://www.prisma.io/docs/guides/deployment/deployment-guides/deploying-to-vercel)