

cPanel Deployment Guide for TFG Gaming Club

This guide will help you deploy the TFG Gaming Club application to cPanel hosting with MySQL database.

Prerequisites

- cPanel hosting account with Node.js support (minimum Node.js 18.x)
 - MySQL database access via cPanel
 - SSH access (recommended) or FTP access
 - Domain or subdomain configured in cPanel
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Step 1: Set Up MySQL Database

1.1 Create MySQL Database

1. Log in to your cPanel account
2. Navigate to **MySQL® Databases**
3. Create a new database:
 - Database Name: `tfg_gaming` (or your preferred name)
 - Click **Create Database**

1.2 Create MySQL User

1. In the same **MySQL Databases** section
2. Create a new user:
 - Username: `tfg_user` (or your preferred username)
 - Password: Generate a strong password
 - Click **Create User**

1.3 Add User to Database

1. In the **Add User To Database** section
2. Select your user and database
3. Grant **ALL PRIVILEGES**
4. Click **Make Changes**

1.4 Note Your Database Details

You'll need these for the connection string:

- **Database Name:** `cpanel_username_tfg_gaming` (cPanel adds prefix automatically)
 - **Database User:** `cpanel_username_tfg_user`
 - **Database Host:** Usually `localhost` (check cPanel for exact hostname)
 - **Database Password:** The password you set
 - **Port:** Usually `3306`
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Step 2: Prepare Application Files

2.1 Build the Application Locally

Before uploading, build the application:

```
cd /home/ubuntu/tfg_gaming_club/nextjs_space

















# Install dependencies
yarn install

# Generate Prisma client for MySQL
yarn prisma generate

# Build the application
yarn build
```

2.2 Files to Upload

You need to upload these files/folders to your cPanel:

tfg_gaming_club/nextjs_space/	
 .next/	# Built application (after running  yarn build 
 app/	# Application source
 components/	# UI components
 lib/	# Utility libraries
 prisma/	# Database schema
 public/	# Static assets
 scripts/	# Utility scripts
 node_modules/	# Dependencies (or run yarn install on server)
 package.json	# Dependencies list
 yarn.lock	# Lock file
 next.config.js	# Next.js configuration
 tsconfig.json	# TypeScript configuration
 tailwind.config.ts	# Tailwind CSS config
 postcss.config.js	# PostCSS configuration

Step 3: Upload Files to cPanel

Option A: Using SSH (Recommended)

1. Connect to your server via SSH
2. Navigate to your public_html or application directory
3. Use SCP/RSYNC to upload files:

```
# From your local machine
rsync -avz --exclude 'node_modules' /home/ubuntu/tfg_gaming_club/nextjs_space/ user-
name@your-domain.com:~/public_html/
```

Option B: Using File Manager/FTP

1. Compress the application folder (exclude node_modules to save space)
2. Upload via cPanel File Manager or FTP client

3. Extract on the server

Step 4: Configure Environment Variables

4.1 Create .env File

In your application root on the server, create a `.env` file:

```
# MySQL Database Connection
# Replace these with your actual cPanel MySQL details
DATABASE_URL="mysql://cpanel_username_tfg_user:your_password@localhost:3306/cpanel_username_tfg_gaming"

# NextAuth Secret (generate a new one)
# Run: openssl rand -base64 32
NEXTAUTH_SECRET="your-nextauth-secret-here"

# NextAuth URL (your domain)
NEXTAUTH_URL="https://your-domain.com"

# Discord OAuth (if using Discord login)
DISCORD_CLIENT_ID="your-discord-client-id"
DISCORD_CLIENT_SECRET="your-discord-client-secret"

# Discord Webhook (for notifications)
DISCORD_WEBHOOK_URL="your-discord-webhook-url"
```

4.2 Secure the .env File

Make sure `.env` is not publicly accessible:

```
chmod 600 .env
```

Add to `.htaccess` to block access:

```
<Files ".env">
  Order allow,deny
  Deny from all
</Files>
```

Step 5: Install Dependencies and Set Up Database

5.1 Install Node Modules

SSH into your server and run:

```
cd ~/public_html # or your application directory
yarn install
```

5.2 Generate Prisma Client

```
yarn prisma generate
```

5.3 Push Database Schema

Create the database tables:

```
yarn prisma db push
```

This will:

- Create all necessary tables in your MySQL database
- Set up the schema as defined in `prisma/schema.prisma`

5.4 Seed Initial Data (Optional)

Populate the database with initial data:

```
yarn prisma db seed
```

This creates:

- Default admin user
- Initial games
- Default settings

Step 6: Configure Node.js Application in cPanel

6.1 Set Up Node.js App

1. In cPanel, navigate to **Setup Node.js App**
2. Click **Create Application**
3. Configure:
 - **Node.js Version:** 18.x or higher
 - **Application Mode:** Production
 - **Application Root:** Path to your application (e.g., `public_html`)
 - **Application URL:** Your domain or subdomain
 - **Application Startup File:** `server.js` (we'll create this next)

6.2 Create Server File

Create `server.js` in your application root:

```

const { createServer } = require('http');
const { parse } = require('url');
const next = require('next');

const dev = process.env.NODE_ENV !== 'production';
const hostname = 'localhost';
const port = process.env.PORT || 3000;

const app = next({ dev, hostname, port });
const handle = app.getRequestHandler();

app.prepare().then(() => {
  createServer(async (req, res) => {
    try {
      const parsedUrl = parse(req.url, true);
      await handle(req, res, parsedUrl);
    } catch (err) {
      console.error('Error occurred handling', req.url, err);
      res.statusCode = 500;
      res.end('internal server error');
    }
  })
  .once('error', (err) => {
    console.error(err);
    process.exit(1);
  })
  .listen(port, () => {
    console.log(`> Ready on http://${hostname}:${port}`);
  });
});

```

6.3 Update package.json

Ensure your `package.json` has the correct start script:

```

{
  "scripts": {
    "dev": "next dev",
    "build": "next build",
    "start": "node server.js",
    "lint": "next lint"
  }
}

```

6.4 Start the Application

In cPanel Node.js App Manager:

1. Click **Start App** or **Restart App**
2. Check the application status

Step 7: Configure Web Server (Apache/Nginx)

7.1 Set Up Reverse Proxy (.htaccess for Apache)

cPanel usually auto-generates this, but verify your `.htaccess` in the application root:

```
RewriteEngine On
RewriteRule ^$ http://127.0.0.1:3000/ [P,L]
RewriteCond %{REQUEST_FILENAME} !-f
RewriteCond %{REQUEST_FILENAME} !-d
RewriteRule ^(.*)$ http://127.0.0.1:3000/$1 [P,L]
```

Replace `3000` with your actual Node.js port if different.

Step 8: Set Up Admin User

8.1 Create First Admin User

After deployment, register a user via the website, then SSH into your server:

```
cd ~/public_html

# Update the username in the script
node -e "const { PrismaClient } = require('@prisma/client'); const prisma = new PrismaClient(); prisma.user.update({ where: { username: 'your_username' }, data: { isAdmin: true } }).then(() => console.log('Admin set')).finally(() => prisma.$disconnect());"
```

Or use the pre-made script:

```
# Edit scripts/set-sneakyvale-admin.ts to match your username
yarn tsx scripts/set-sneakyvale-admin.ts
```

Step 9: Set Up Scheduled Tasks (Cron Jobs)

For the Monday booking summary notification:

1. In cPanel, navigate to **Cron Jobs**
2. Add a new cron job:
 - **Minute:** 0
 - **Hour:** 17 (5:00 PM)
 - **Day:** *
 - **Month:** *
 - **Weekday:** 1 (Monday)
 - **Command:**

```
bash
```

```
cd /home/cpanel_username/public_html && /usr/bin/node -r dotenv/config /usr/bin/yarn
tsx scripts/scheduled/monday-booking-summary.ts
```

Troubleshooting

Application Won't Start

1. **Check Node.js version:** Ensure it's 18.x or higher

```
bash
node --version
```
2. **Check application logs** in cPanel Node.js App Manager
3. **Verify database connection:**

```
bash
yarn prisma db pull
```

Database Connection Errors

1. **Verify credentials** in `.env`
2. **Check MySQL hostname** - might not be `localhost`
3. **Ensure user has privileges**
4. **Test connection:**

```
bash
mysql -h localhost -u cpanel_username_tfg_user -p cpanel_username_tfg_gaming
```

Static Files Not Loading

1. Ensure `.next` folder is uploaded
2. Check file permissions:

```
bash
chmod -R 755 .next public
```

Port Already in Use

1. Change port in `server.js` or environment variable
2. Update `.htaccess` reverse proxy configuration

Maintenance

Updating the Application

1. Pull/upload latest code
2. Run migrations if database changed:

```
bash
yarn prisma db push
```
3. Rebuild:

```
bash
yarn build
```
4. Restart app in cPanel Node.js App Manager

Database Backups

1. Use cPanel **Backup Wizard** for automatic backups

2. Or manually via command line:

```
bash
```

```
mysqldump -u username -p database_name > backup.sql
```

Monitoring

1. Check application logs regularly in cPanel
 2. Monitor database size in cPanel MySQL section
 3. Set up uptime monitoring (e.g., UptimeRobot)
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Security Checklist

- ☐ `.env` file is secured (chmod 600)
 - ☐ Database user has minimal necessary privileges
 - ☐ Strong passwords for database and NextAuth
 - ☐ HTTPS/SSL certificate installed
 - ☐ Discord webhook URL is secret
 - ☐ Regular backups configured
 - ☐ Application error logs don't expose sensitive data
 - ☐ Firewall rules configured (if VPS)
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Support

For issues specific to:

- **Next.js:** [Next.js Documentation](https://nextjs.org/docs) (https://nextjs.org/docs)
 - **Prisma:** [Prisma Documentation](https://www.prisma.io/docs) (https://www.prisma.io/docs)
 - **cPanel Node.js:** Contact your hosting provider
 - **Application bugs:** Check the application repository
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Quick Reference

Important Files

- `.env` - Environment variables
- `server.js` - Node.js server entry point
- `prisma/schema.prisma` - Database schema
- `.htaccess` - Apache configuration
- `package.json` - Dependencies

Common Commands

```
# Install dependencies
yarn install

# Generate Prisma client
yarn prisma generate

# Push database schema
yarn prisma db push

# Seed database
yarn prisma db seed

# Build application
yarn build

# Start application (production)
yarn start

# View database in browser
yarn prisma studio
```

Database Connection String Format

```
mysql://USERNAME:PASSWORD@HOST:PORT/DATABASE_NAME
```

Example:

```
mysql://cpanel_user_tfg:SecurePass123@localhost:3306/cpanel_user_gaming
```

Good luck with your deployment! 🎮