🚀 Complete Railway Migration Guide

> **Step-by-Step Guide to Deploy Your Discord Bank Bot on Railway**

🎯 What You'll Achieve

✅ **24/7 Bot Hosting** - No more keeping your computer on!
✅ **All Original Commands** - Every feature from your GitHub repo
✅ **Enhanced Dice Command** - Beautiful visual dice battles
✅ **Automatic Deployments** - Push to GitHub = Auto-deploy
✅ **Free Hosting** - Railway's generous free tier

📋 Pre-Migration Checklist

🔑 Required Information

- [ ] Discord Bot Token

- [ ] Discord Bot Client ID (Application ID)

- [ ] Channel ID where bot should work (optional)

- [ ] GitHub account

- [ ] Railway account (free sign-up)

🔍 Get Your Bot Info

Discord Bot Token

1. Go to [Discord Developer Portal](#)

2. Click your bot application

3. Go to "Bot" section

4. Click "Reset Token" → Copy the new token

5. **Save this token securely!**

Application ID (Client ID)

1. Same Developer Portal

2. Go to "General Information"

3. Copy "APPLICATION ID"

4. **Save this ID!**

Channel ID (Optional)

1. Enable Developer Mode in Discord

2. Right-click the channel where bot should work

3. Click "Copy Channel ID"

4. **Save this ID!**

🗃️ Step 1: Prepare Your Repository

Option A: Fork This Repository (Recommended)

1. **Fork this repository** to your GitHub account

2. **Clone your fork** to your computer:
   ```
   bash git clone https://github.com/YOUR_USERNAME/discord-bank-bot-complete.git cd discord-bank-bot-complete
   ```

3. **Add your dice assets** (copy from your original project):

```bash
# Copy your dice images to dice_assets/ cp your_images/1.jpg dice_assets/ cp your_images/2.jpg dice_assets/ cp your_images/3.jpg dice_assets/ cp your_images/4.jpg dice_assets/ cp your_images/5.jpg dice_assets/ cp your_images/6.jpg dice_assets/ cp your_images/red_background_700x250.png dice_assets/
```

4. **Create config.js from template**:

```bash
cp config.js.template config.js
```

5. **Edit config.js** with your specific settings (channel IDs, etc.)

6. **Commit and push changes**:

```bash
git add . git commit -m "Added my bot configuration and assets" git push origin main
```

Option B: Create New Repository

1. **Download this complete migration folder**

2. **Create new GitHub repository**:
   - Name: `discord-bank-bot-complete`
   - Visibility: Public (for Railway free tier)
   - Don't add README, .gitignore (we have our own)

3. **Upload all files** to your new repository

4. **Follow steps 3-6 from Option A**

🚂 Step 2: Deploy to Railway

Create Railway Account

1. Go to railway.app

2. Click "Login" → "Login with GitHub"

3. Authorize Railway to access your GitHub

Deploy Your Bot

1. **Click "Deploy from GitHub repo"**

2. **Select your repository**: `discord-bank-bot-complete`

3. **Railway auto-detects**: Node.js project with Python support

4. **Click "Deploy"**

Configure Environment Variables

1. **In Railway dashboard**, click your project

2. **Go to "Variables" tab**

3. **Add these variables**:

Variable Name	Value	Required
`DISCORD_TOKEN`	Your bot token	✅ Required
`ALLOWED_CHANNEL_ID`	Your channel ID	⚠️ Optional
`NODE_ENV`	`production`	⚠️ Optional

1. **Click "Save"** - Railway will auto-redeploy!

✅ Step 3: Test Your Deployment

Check Railway Logs

1. **Go to Railway dashboard** → Your project

2. **Click "Deployments"** → Latest deployment

3. **Look for success indicators**:
   ```
   ✅ Loaded command: نرد ✅ Loaded command: راتب ✅ Loaded command:
   فلوسي 🤖 Bot is Ready! YourBot#1234! 🚀 Enhanced with Railway
   hosting and improved dice command!
   ```

Test in Discord

1. **Go to your Discord server**

2. **Try these commands**:
   - `را تب` (salary)
   - `فلوسي` (balance)
   - `نرد` (dice - should generate beautiful image!)
   - `اوامر` (commands list)

Verify Bot Status

- **Bot should appear online** in your server

- **Commands should respond** within seconds

- **Dice command should generate images** (or fallback to text)

🎯 Step 4: Enjoy 24/7 Hosting!

🎉 Congratulations! Your bot is now:

- **Running 24/7** on Railway cloud

- **Auto-deploying** when you push to GitHub

- **Enhanced** with visual dice battles

- **Monitoring** resource usage automatically

📊 Management Dashboard

- **Railway Dashboard**: Monitor uptime, logs, resource usage

- **GitHub Repository**: Make changes, auto-deploy

- **Discord Server**: Bot stays online 24/7

🔄 Making Updates

1. **Edit files locally** or on GitHub

2. **Commit and push** changes

3. **Railway auto-deploys** within 2-3 minutes

4. **Changes appear** in Discord immediately

🛠️ Troubleshooting Guide

❌ Bot Won't Start

Check Railway Logs for errors:

Error: "DISCORD_TOKEN is required"

- **Solution**: Add `DISCORD_TOKEN` in Railway variables
- **Verify**: Token is correct and not expired

Error: "Failed to login to Discord"

- **Solution**: Generate new token in Discord Developer Portal
- **Add**: New token to Railway environment variables

Error: Command loading failures

- **Solution**: Check file syntax in affected commands
- **Look**: For missing commas, brackets, or syntax errors

⚠️ نرد Command Issues

Images Not Generating

- **Expected**: Bot falls back to text mode automatically

- **Check**: Railway logs for Python errors
- **Verify**: All dice assets are in `dice_assets/` folder

"Python dice generator not found"

- **Solution**: Files are in wrong location
- **Fix**: Ensure `generate_improved_dice_image.py` is in root directory

🚫 Commands Not Responding

Bot Online But Ignoring Commands

- **Check**: `ALLOWED_CHANNEL_ID` in environment variables
- **Remove**: Variable if you want bot to work in all channels
- **Verify**: Bot has permission to read/send messages

Cooldown Messages

- **Normal**: Commands have cooldown periods (30s for نرد)
- **Wait**: For cooldown to expire
- **Check**: `config.js` cooldown settings if needed

📈 Performance Issues

Bot Slow or Timing Out

- **Check**: Railway resource usage
- **Upgrade**: To paid plan if hitting limits
- **Optimize**: Database queries if needed

High Memory Usage

- **Normal**: Image generation uses memory
- **Cleanup**: Temp images are auto-deleted after 1 minute

- **Monitor**: Railway dashboard for alerts

💡 Pro Tips

🔧 Optimization

- **Monitor Railway dashboard** for resource usage
- **Keep dice assets optimized** (smaller file sizes)
- **Enable cleanup** in dice command (already configured)

🔒 Security

- **Never share your bot token** publicly
- **Use environment variables** for all secrets
- **Regenerate token** if accidentally exposed

📊 Monitoring

- **Check logs regularly** for errors
- **Monitor bot uptime** in Discord
- **Watch Railway resource usage**

🚀 Scaling

- **Railway free tier**: 500 hours/month + $5 credit
- **Upgrade to Pro**: For unlimited usage
- **Multiple bots**: Deploy each as separate project

📞 Getting Help

🆘 If You're Still Stuck:

1. **Check Railway logs** first - most issues show up there

2. **Verify environment variables** are set correctly

3. **Test locally** using `npm start` to isolate Railway issues

4. **Review this guide** - solution is usually here

5. **Contact support** - Railway has excellent documentation

📚 Useful Resources:

- Railway Documentation

- Discord.js Guide

- Discord Developer Portal

- Wick Studio Discord

🎯 Success Checklist

- [ ] Bot appears online in Discord

- [ ] Commands respond correctly (`را تب` , `فلوسي` , etc.)

- [ ] Enhanced `نرد` command generates images

- [ ] Railway logs show successful startup

- [ ] No error messages in console

- [ ] Bot has been running for 24+ hours

- [ ] Auto-deployment works when pushing to GitHub

🎉 **Congratulations! Your Discord Bank Bot is now running 24/7 on Railway with enhanced features!**

Need help? The bot includes comprehensive error handling and will fallback gracefully if anything goes wrong.