

APBeeper Bot Deployment Checklist

Use this checklist to ensure a smooth deployment to GitHub and Railway.

Pre-Deployment Checklist

GitHub Repository Setup

- ☐ Repository created on GitHub
- ☐ Local repository initialized with `git init`
- ☐ Remote origin added: `git remote add origin https://github.com/yourusername/apbeeper-bot.git`
- ☐ All files committed and pushed to GitHub
- ☐ Repository is public or accessible to Railway

Environment Variables Prepared

- ☐ Discord bot token obtained from Discord Developer Portal
- ☐ Discord client ID copied from application settings
- ☐ Twitch API credentials obtained from Twitch Developers
- ☐ All sensitive data removed from code
- ☐ `.env.example` file updated with all required variables

Code Quality Check

- ☐ All dependencies installed: `npm install`
- ☐ Environment validation passes: `npm run test-env`
- ☐ Bot starts locally without errors: `npm run dev`
- ☐ All commands work in development Discord server
- ☐ No console errors or warnings

GitHub Deployment Steps

1. Initialize Git Repository

```
cd ~/apbeeper_bot
git init
git add .
git commit -m "Initial commit: APBeeper Discord Bot"
```

2. Connect to GitHub

```
git remote add origin https://github.com/yourusername/apbeeper_bot.git
git branch -M main
git push -u origin main
```

3. Verify GitHub Repository

- ☐ All files visible on GitHub

- [] README.md displays correctly
- [] No sensitive data (tokens, passwords) in repository
- [] .gitignore working properly (no `node_modules`, `.env`, etc.)

Railway Deployment Steps

1. Create Railway Project

- [] Go to railway.app (<https://railway.app>)
- [] Sign in with GitHub account
- [] Click “New Project” → “Deploy from GitHub repo”
- [] Select your APBeeper Bot repository
- [] Choose `main` branch

2. Add PostgreSQL Database

- [] In Railway dashboard, click “New Service”
- [] Select “Database” → “PostgreSQL”
- [] Wait for database provisioning
- [] Note that `DATABASE_URL` is automatically set

3. Configure Environment Variables

Add these variables in Railway dashboard under “Variables”:

Required Variables:

- [] `DISCORD_TOKEN` = `your_discord_bot_token`
- [] `DISCORD_CLIENT_ID` = `your_discord_client_id`
- [] `TWITCH_CLIENT_ID` = `your_twitch_client_id`
- [] `TWITCH_CLIENT_SECRET` = `your_twitch_client_secret`
- [] `NODE_ENV` = `production`

Optional Variables:

- [] `LOG_LEVEL` = `info`
- [] `PORT` = `3000`
- [] `HEALTH_CHECK_ENABLED` = `true`

4. Deploy and Monitor

- [] Railway automatically deploys after configuration
- [] Check “Deployments” tab for build logs
- [] Verify no build errors
- [] Check “Logs” for runtime logs
- [] Confirm bot appears online in Discord

5. Test Deployment

- [] Bot responds to slash commands
- [] Health check endpoint works: `https://your-app.railway.app/health`
- [] Database operations work (commands save settings)
- [] Scheduled tasks running (check logs)
- [] Twitch integration working (if configured)

Post-Deployment Configuration

Discord Bot Setup

- ☐ Bot added to Discord servers
- ☐ Proper permissions granted:
 - Send Messages
 - Use Slash Commands
 - Embed Links
 - Read Message History
 - Manage Messages (if needed)
- ☐ Slash commands registered and working

Database Migration (if upgrading from local)

- ☐ Run migration script: `npm run migrate`
- ☐ Verify data transferred correctly
- ☐ Test all bot functionality
- ☐ Remove old SQLite database files

Monitoring Setup

- ☐ Railway health checks working
- ☐ Log levels appropriate for production
- ☐ Error notifications configured (optional)
- ☐ Performance monitoring enabled

Troubleshooting

Common Issues and Solutions

Bot Not Starting:

- ☐ Check environment variables are set correctly
- ☐ Verify Discord token is valid
- ☐ Check Railway deployment logs for errors

Database Connection Issues:

- ☐ Verify PostgreSQL service is running
- ☐ Check `DATABASE_URL` is set automatically by Railway
- ☐ Review database connection logs

Commands Not Working:

- ☐ Verify bot has proper Discord permissions
- ☐ Check if slash commands are registered
- ☐ Review command execution logs

Health Check Failures:

- ☐ Verify health server is starting
- ☐ Check if port 3000 is available
- ☐ Review health endpoint logs

Getting Help

- ☐ Check [troubleshooting guide](#) (docs/troubleshooting.md)
- ☐ Review Railway deployment logs
- ☐ Create GitHub issue with detailed error information
- ☐ Check Railway status page for service issues

Deployment Success Criteria

Your deployment is successful when:

- ☐ Bot appears online in Discord
- ☐ All slash commands respond correctly
- ☐ Health check returns 200 OK
- ☐ Database operations work (settings persist)
- ☐ Scheduled tasks run without errors
- ☐ No critical errors in logs
- ☐ Railway dashboard shows healthy status

Performance Monitoring

Key Metrics to Monitor

- ☐ Response time for commands
- ☐ Memory usage (Railway dashboard)
- ☐ CPU usage (Railway dashboard)
- ☐ Database connection count
- ☐ Error rate in logs

Optimization Tips

- ☐ Monitor Railway usage to stay within free tier
- ☐ Optimize database queries if needed
- ☐ Adjust cron job frequency if necessary
- ☐ Implement caching for frequently accessed data

Congratulations! 🎉 Your APBeeper Discord Bot is now deployed and ready to serve the APB community!

For ongoing maintenance and updates, refer to the [Railway Deployment Guide](#) (docs/railway-deployment.md) and [Troubleshooting Guide](#) (docs/troubleshooting.md).