# 🚀 Complete Ngrok Setup Guide

I'll walk you through the entire process from scratch:

## 📥 Step 1: Download & Install Ngrok

### Option A: Download from Website

1. Go to https://ngrok.com/download
2. Click "Download for Windows"
3. Extract the `ngrok.exe` file to a folder (e.g., `C:\ngrok\` or `Downloads`)

### Option B: Using Package Managers

# Using Chocolatey  
choco install ngrok  
  
# Using Scoop  
scoop install ngrok

## 🔐 Step 2: Create Ngrok Account & Get Token

1. Sign up: Go to https://dashboard.ngrok.com/signup
2. Create account with email/password or use Google/GitHub
3. Get your token: https://dashboard.ngrok.com/get-started/your-authtoken
4. Copy the token (e.g., 2abc123def456ghi789jkl\_1MnOpQrStUvWxYz)

## ⚙️ Step 3: Configure Ngrok with Your Token

# Navigate to ngrok folder  
cd C:\Users\collegeblk23\Downloads\ngrok-v3-stable-windows-amd64  
  
# Configure with your token (replace with your actual token)  
.\ngrok.exe config add-authtoken YOUR\_TOKEN\_HERE

.\ngrok.exe config add-authtoken 2abc123def456ghi789jkl\_1MnOpQrStUvWxYz

## 🚀 Step 4: Start Your Backend Server

cd D:\cap2\_rhai\_front\_and\_back\rhai\_backend  
npm run dev

Wait until you see: 🚀 Server is running on port 7000

## 🌐 Step 5: Start Ngrok Tunnel

cd C:\Users\collegeblk23\Downloads\ngrok-v3-stable-windows-amd64  
.\ngrok.exe http 7000

Session Status online  
Account your-email@gmail.com (Plan: Free)  
Forwarding https://abc123def456.ngrok-free.app -> http://localhost:7000

Copy the HTTPS URL (e.g., https://abc123def456.ngrok-free.app)

## 🔧 Step 6: Update Your Configuration Files

### A. Update .env file:

cd D:\cap2\_rhai\_front\_and\_back\rhai\_backend

WEBHOOK\_URL=https://YOUR\_NEW\_NGROK\_URL.ngrok-free.app/api/webhooks/paymongo

### B. Update paymongo\_webhook\_manager.js:

const WEBHOOK\_URL = 'https://YOUR\_NEW\_NGROK\_URL.ngrok-free.app/api/webhooks/paymongo';

## 🔗 Step 7: Create PayMongo Webhook

cd D:\cap2\_rhai\_front\_and\_back\rhai\_backend  
node paymongo\_webhook\_manager.js list  
node paymongo\_webhook\_manager.js delete hook\_OLD\_WEBHOOK\_ID  
node paymongo\_webhook\_manager.js create

After creating, you'll get a new webhook secret. Copy it.

## 🔑 Step 8: Update Webhook Secret

PAYMONGO\_WEBHOOK\_SECRET=whsk\_NEW\_SECRET\_HERE

## 🔄 Step 9: Restart Backend Server

npm run dev

## ✅ Step 10: Test the Setup

Test 1: Check if ngrok tunnel works

Open browser and go to: https://YOUR\_NGROK\_URL.ngrok-free.app/api/webhooks/paymongo/test

{"message":"PayMongo webhook endpoint is active","timestamp":"..."}

Test 2: Monitor webhook traffic

Open: http://127.0.0.1:4040 (Ngrok web interface)

## 📋 Complete Example Workflow

# Terminal 1: Backend Server  
cd D:\cap2\_rhai\_front\_and\_back\rhai\_backend  
npm run dev  
  
# Terminal 2: Ngrok  
cd C:\Users\collegeblk23\Downloads\ngrok-v3-stable-windows-amd64  
.\ngrok.exe http 7000  
  
# Terminal 3: Configuration  
cd D:\cap2\_rhai\_front\_and\_back\rhai\_backend  
node paymongo\_webhook\_manager.js create

## 🔄 When You Restart (Important!)

1. Copy the new ngrok URL
2. Update `.env` file
3. Update `paymongo\_webhook\_manager.js`
4. Delete old webhook and create new one
5. Update webhook secret in `.env`
6. Restart backend server

## 🎯 Pro Tips

Make it easier with a batch script:

@echo off  
cd C:\Users\collegeblk23\Downloads\ngrok-v3-stable-windows-amd64  
.\ngrok.exe http 7000  
pause

Add ngrok to PATH (Optional):

1. Copy `ngrok.exe` to `C:\Windows\System32\`
2. Or add the ngrok folder to your system PATH
3. Then you can run `ngrok http 7000` from anywhere

## 🚨 Troubleshooting

"Authentication failed" error:

* Make sure you configured the authtoken correctly
* Try: .\ngrok.exe config add-authtoken YOUR\_TOKEN

"Address already in use" error:

* Another process is using port 7000
* Kill it: taskkill /F /PID PROCESS\_ID
* Or use a different port

Webhook not receiving data:

* Check ngrok is running and shows "online"
* Verify the webhook URL is correct
* Check ngrok web interface (http://127.0.0.1:4040) for incoming requests

## 📱 Final Test

1. Make a test payment in your app
2. Check ngrok web interface (http://127.0.0.1:4040) - you should see the webhook request
3. Check backend logs - should show webhook processing
4. Check AdminRequests.vue - should receive payment confirmation notification

That's it! Your ngrok setup should now work perfectly for receiving PayMongo webhooks! 🎉