🎉 Automated Phone System - Deployment Guide

Current Status

Your Flask application is **RUNNING** and ready to receive calls!

- Application Status: V Running on port 5000
- **Health Check**: Passing (http://localhost:5000/health)
- **Dependencies**: **V** All installed
- · Local Access: http://localhost:5000

Important Issues to Address

1. Missing Vonage Private Key

Status: X Critical - Required for Vonage API authentication

The application is looking for a private key file at ./private.key but it doesn't exist. You need to:

- 1. Go to your Vonage Dashboard (https://dashboard.vonage.com/)
- 2. Navigate to **Applications** → Select your application (ID: 5f33f5f3-8898-4675-ad58-7823db96a34d)
- 3. Download the **Private Key** file
- 4. Save it as private.key in /home/ubuntu/github_repos/auto_call_system/

Command to upload the key:

```
# After downloading from Vonage, upload it to:
/home/ubuntu/github repos/auto call system/private.key
```

2. Cal.com API Token Issue

The Cal.com API token in your .env file is returning a 401 error. You may need to:

- Verify the token is correct
- Check if it has expired
- Ensure it has the right permissions

Making Your Application Publicly Accessible

Since Vonage needs to send webhooks to your application, you need a public URL. Here are your options:

Option 1: Using ngrok (Recommended for Testing)

Step 1: Get an ngrok account and auth token

- 1. Sign up at https://dashboard.ngrok.com/signup
- 2. Get your auth token from https://dashboard.ngrok.com/get-started/your-authtoken

Step 2: Configure ngrok

ngrok config add-authtoken YOUR AUTH TOKEN HERE

Step 3: Start ngrok tunnel

cd /home/ubuntu/github_repos/auto_call_system ngrok http 5000

Step 4: Copy the public URL

You'll see output like:

https://abc123.ngrok.io -> http://localhost:5000 Forwarding

Your webhook URLs will be:

- **Answer URL**: https://abc123.ngrok.io/webhooks/answer
- **Event URL**: https://abc123.ngrok.io/webhooks/events
- **Speech URL**: https://abc123.ngrok.io/webhooks/speech

Option 2: Using Cloudflare Tunnel (Free, No Account Required)

Install cloudflared

wget https://github.com/cloudflare/cloudflared/releases/latest/download/cloudflaredlinux-amd64

chmod +x cloudflared-linux-amd64

sudo mv cloudflared-linux-amd64 /usr/local/bin/cloudflared

Start tunnel

cloudflared tunnel --url http://localhost:5000

Option 3: Deploy to Production Server

For production use, deploy to:

- Heroku: Easy deployment with free tier
- DigitalOcean: \$5/month droplet
- AWS EC2: Free tier available
- Railway: Modern deployment platform



Configure Vonage Webhooks

Once you have a public URL, configure it in your Vonage Application:

- 1. Go to Vonage Dashboard (https://dashboard.vonage.com/)
- 2. Navigate to **Applications** → Your Application

- 3. Under Capabilities → Voice, set:
 - **Answer URL**: https://YOUR-PUBLIC-URL/webhooks/answer (HTTP POST)
 - Event URL: https://YOUR-PUBLIC-URL/webhooks/events (HTTP POST)
- 4. Click Save changes

Complete Setup Checklist

- [x] Flask application running on port 5000
- [x] Dependencies installed
- [] **Upload Vonage private key to** /home/ubuntu/github_repos/auto_call_system/private.key
- [] Fix Cal.com API token (optional, for calendar features)
- [] Set up ngrok or another tunneling service
- [] Configure webhook URLs in Vonage Dashboard
- [] Test incoming call

Testing Your System

1. Test Health Endpoint

```
curl http://localhost:5000/health
```

Expected response:

```
{
  "status": "healthy",
  "timestamp": "2025-09-30T21:18:01.660875",
  "vonage_client": true
}
```

2. Test Answer Webhook (Simulated)

```
curl -X POST http://localhost:5000/webhooks/answer \
  -H "Content-Type: application/json" \
  -d '{
    "from": "14155551234",
    "to": "19095779171",
    "uuid": "test-call-uuid",
    "conversation_uuid": "test-conversation-uuid"
}'
```

3. Make a Real Test Call

Once webhooks are configured, call your Vonage number: +1 (909) 577-9171

Troubleshooting

Application won't start

```
# Check if port 5000 is already in use
sudo lsof -i :5000

# Kill existing process if needed
sudo kill -9 <PID>

# Restart application
cd /home/ubuntu/github_repos/auto_call_system
python3 app.py
```

Vonage client initialization failed

- Ensure private.key file exists in the project directory
- Verify the file has the correct permissions: chmod 600 private.key
- Check that the Application ID in .env matches your Vonage dashboard

Webhooks not receiving calls

- Verify your public URL is accessible: curl https://YOUR-URL/health
- Check Vonage Dashboard → Applications → Your App → Webhooks are configured
- Look at Flask logs for incoming requests
- Check Vonage Dashboard → Logs for webhook delivery status

Cal.com integration not working

- · Verify API token is valid
- Check that CALCOM_EVENT_TYPE_ID is set correctly
- This is optional the system can work without calendar integration

System Features

Your automated phone system handles:

- Pricing Inquiries Provides rental rates and package information
- Availability Checking Checks calendar for open time slots
- Booking Requests Creates reservations (requires Cal.com setup)
- General Information Operating hours, location, services
- ✓ Human Escalation Transfers complex requests to staff at +1 (917) 796-9730
- ✓ After-Hours Handling Appropriate messaging outside 9am-9pm

Security Notes

- Never commit .env file or private.key to version control
- Keep your Vonage API credentials secure
- Use HTTPS for all webhook URLs in production
- Regularly rotate API keys and tokens

Additional Resources

- Vonage Voice API Documentation (https://developer.vonage.com/voice/voice-api/overview)
- NCCO Reference (https://developer.vonage.com/voice/voice-api/ncco-reference)
- Flask Documentation (https://flask.palletsprojects.com/)
- ngrok Documentation (https://ngrok.com/docs)

SSS Need Help?

If you encounter issues:

- 1. Check the Flask application logs
- 2. Review Vonage Dashboard → Logs for webhook delivery
- 3. Test endpoints manually with curl
- 4. Verify all environment variables are set correctly

Current Application Location: /home/ubuntu/github_repos/auto_call_system/

Next Steps:

- 1. Upload your Vonage private key file
- 2. Set up ngrok with your auth token
- 3. Configure webhook URLs in Vonage Dashboard
- 4. Make a test call! 📞