Faceless YouTube Video Automation -n8n Quick Execution Guide

Direct Resources

- **Tutorial (step-by-step):** https://www.youtube.com/watch?v=MjZSsasHSq8
- **Workflow Template (.json):** https://drive.google.com/file/d/1_rNeNA-OiXTdB_VoK5LYoWRN05FOwdf1/view
- **n8n Platform:** https://n8n.io

Goal

Deploy an automated pipeline that generates faceless YouTube videos using AI for script, visuals, audio, captions, and final video rendering.

Phase 1 — Setup Environment

Install n8n

Choose one:

- n8n Cloud (fastest)
- Self-host via Docker
- Local desktop install

Recommended: n8n Cloud for quick deployment.

Create API Accounts

Generate API keys and add them to n8n credentials:

- Anthropic
- OpenAI
- ElevenLabs
- RunwayML
- Replicate
- Google Sheets

Store all credentials in the n8n Credentials Manager.

Phase 2 — Import Workflow

Import Template

In n8n:

Workflows → Import → Upload JSON

Upload the downloaded template file to load the automation.

Connect Credentials

For each node:

- Select the correct credential
- Test connection
- Save

Resolve all warning indicators before running.

Phase 3 — Google Sheets Trigger

Create a control sheet with columns:

- Video Topic
- Tone
- Length
- Status

Adding a new row triggers the automation. This sheet acts as the content dashboard.

Phase 4 — AI Script Engine

Anthropic generates:

- Hook
- Full script
- Scene breakdown

n8n splits the script into scenes using function and loop nodes. Each scene becomes an individual task.

Phase 5 — Visual & Audio Production

For every scene:

- OpenAI generates images

- ElevenLabs creates voice narration
- Replicate generates captions

Assets are saved and timestamped automatically.

Phase 6 — Video Assembly

RunwayML and Credomat:

- Merge scenes
- Sync audio
- Add captions
- Render final MP4

Output can be stored in Google Drive, local storage, or sent to YouTube.

Scaling Options

Batch Production

Add multiple rows to Google Sheets to generate videos in bulk.

Auto Topic Research

Add an AI agent to fetch trending topics and auto-populate the sheet.

Auto Publishing

Integrate YouTube upload, SEO metadata generation, and thumbnail creation.

Execution Timeline

- Setup and import: 1 day
- Debugging: 1–2 days
- Optimization: 1 day

Total: ~3–4 days for a stable autopilot system.