



Google Drive Auto-Posting Feature

Overview

The Google Drive Auto-Posting feature allows you to automatically post numbered files from your Google Drive folders to social media platforms on a schedule. The system will:

1. **Grab files sequentially** (1-something.jpg, 2-something.mp4, etc.)
 2. **Analyze content with AI** to understand what's in each image/video
 3. **Generate posts** using your custom prompt
 4. **Post automatically** via Late API at your scheduled times
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How It Works

1. Setup Phase (One-time configuration)

1. Go to **Dashboard** → **Post** → **Series** tab
2. Click “**Create New Series**”
3. Fill in the basic details:
 - **Name:** e.g., “Game Highlights”
 - **Days of Week:** Select when to post (e.g., Monday, Wednesday, Friday)
 - **Time:** Set posting time (e.g., 10:00 AM Eastern)
 - **Platforms:** Choose where to post (Instagram, Facebook, etc.)
4. **Configure Google Drive Integration:**
 - **Folder ID:** Paste your Google Drive folder ID
 - Find it in URL: `drive.google.com/drive/folders/YOUR_FOLDER_ID`
 - **AI Prompt:** Write instructions for content generation
 - Example: “Create an exciting post about this basketball game highlight. Include player names, score, and energetic language.”
 - **Loop Enabled:** Toggle ON if you want to automatically restart from file 1 after reaching the end

2. File Naming Convention (CRITICAL!)

Files in your Google Drive folder **must** be named with numeric prefixes:

✓ Correct:

- `1-game-highlights.jpg`
- `2-practice-session.mp4`
- `3-team-photo.png`
- `10-championship-win.jpg`

✗ Wrong:

- `game-1.jpg` (number must be at start)
- `highlights.jpg` (no number)
- `photo_01.png` (underscore not dash)

3. Automated Execution

The daemon runs **every minute** and:

- Checks which series are due (within 2 minutes of scheduled time)
 - Downloads the next numbered file from Google Drive
 - Uses AI to analyze the image/video
 - Generates post content based on your prompt
 - Posts immediately via Late API
 - Increments the file counter
 - Schedules the next run
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🎯 Example Use Case

Scenario: Basketball team wants to post game highlights 3 times a week

Setup:

```
Series Name: "Game Highlights"
Schedule: Monday, Wednesday, Friday at 10:00 AM EST
Platforms: Instagram, Facebook, Twitter
Google Drive Folder: 1Abc2Def3Ghi4Jkl5Mno
AI Prompt: "Create an exciting post about this basketball game highlight.
    Mention the plays, players visible, and hype up the action.
    Use energetic language and basketball emojis."
Loop: ON
```

Files in Drive:

```
1-game1-buzzer-beater.jpg
2-game2-slam-dunk.mp4
3-game3-three-pointer.jpg
4-game4-defense-block.jpg
... (up to 30 files)
```

What Happens:

- **Monday 10:00 AM:** Posts file #1 → counter goes to 2
 - **Wednesday 10:00 AM:** Posts file #2 → counter goes to 3
 - **Friday 10:00 AM:** Posts file #3 → counter goes to 4
 - ... continues until file #30
 - **After file #30:** Loops back to file #1 (because Loop is ON)
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🔧 Management Controls

For each Google Drive-enabled series, you have these controls:

👁️ Preview

- Click to see which file will be posted next
- Shows file name, number, and total files in folder
- Useful to verify the queue before posting

Test

- Manually trigger a post immediately (ignores schedule)
- Posts the next file in sequence
- Great for testing your setup
- **WARNING:** This WILL post to your actual social media accounts!

Reset

- Resets the file counter back to 1
- Useful if you:
- Add new files to the beginning
- Want to restart the series
- Made a mistake and need to re-post

Status Indicators

When viewing your series, Google Drive-enabled ones show:

```
📁 Google Drive Enabled
File #5 🔁 Loop
[👁️ Preview] [📝 Test] [🔄 Reset]
```

- **File #X:** Current file number in queue
-  **Loop:** Shows if looping is enabled
- **Blue box:** Visual indicator that Google Drive is active

Daemon Setup

The daemon runs automatically and checks for due posts every minute.

Manual Daemon Execution (for testing):

```
cd /home/ubuntu/late_content_poster/nextjs_space
npx ts-node scripts/google-drive-series-daemon.ts
```

Automated Daemon Setup (Production):

Option 1: Cron Job (Recommended)

```
# Edit crontab
crontab -e

# Add this line to run every minute:
* * * * * cd /home/ubuntu/late_content_poster/nextjs_space && npx ts-node scripts/
google-drive-series-daemon.ts >> /home/ubuntu/google-drive-daemon.log 2>&1
```

Option 2: PM2 (Process Manager)

```
# Install PM2
npm install -g pm2

# Start daemon (runs every minute via internal scheduler)
pm2 start scripts/google-drive-series-daemon.ts --name "google-drive-poster" --cron
" * * * * *"

# View logs
pm2 logs google-drive-poster

# Stop daemon
pm2 stop google-drive-poster
```

Troubleshooting

“No files found in folder”

- Check files are named correctly (1-, 2-, 3-)
- Verify folder ID is correct
- Ensure Google Drive is connected (check permissions)

“File X not found and looping is disabled”

- You've reached the end of your files
- **Solution 1:** Enable looping in series settings
- **Solution 2:** Add more files to your Drive folder
- **Solution 3:** Reset counter to 1

“Preview Failed”

- Google Drive folder ID might be wrong
- Files might not have numeric prefixes
- Check network/API connection

“Test Failed”

- Check Late API key is configured (`LATE_API_KEY` in `.env`)
- Verify platforms are correctly linked in Late
- Check error message in toast notification

AI Content Generation

The AI analyzes each image/video and combines it with your prompt to create posts.

How It Works:

1. **Image Analysis:** AI describes what it sees
 - People, actions, emotions, setting, colors, text
2. **Prompt Application:** Your instructions are applied
 - Tone, style, platform-specific formatting

3. Content Generation: Creates final post

- Caption, hashtags, mentions, emojis

Best Practices for Prompts:

Good Prompts:

"Create an exciting post about this basketball game.
Mention the team name 'Rise As One AAU', highlight
the action, and use basketball emojis. Keep it energetic
and inspiring **for** young players."

Generic Prompts:

"Make a post about this image"

Pro Tips:

- Be specific about tone (exciting, professional, casual)
- Mention team/brand names to include
- Specify emoji usage
- Set length expectations (short for Twitter, longer for Facebook)

Performance & Limits

- **Processing Time:** ~30-60 seconds per file
- 5-10s: Download from Drive
- 10-20s: AI analysis
- 5-10s: Content generation
- 5-10s: Upload & post via Late API

- **File Limits:**

- Max file size: 50MB (Late API limit)
- Supported formats: JPG, PNG, MP4, MOV
- Recommended: Under 10MB for faster processing

- **Scheduling:**

- Daemon checks every 1 minute
- Posts prepared 2 minutes early
- Posts exactly at scheduled time

Security & Permissions

Required Permissions:

- Google Drive: Read access to specified folders
- Late API: Post creation permissions

- Social Platforms: Linked via Late

Data Privacy:

- Files downloaded temporarily (deleted after posting)
- AI analysis done via Abacus AI (secure, encrypted)
- No permanent storage of Drive files in your database



API Endpoints

For developers/automation:

Preview Next File

```
GET /api/series/{seriesId}/preview-next
```

Test Run (Post Now)

```
POST /api/series/{seriesId}/test-run
```

Reset Counter

```
POST /api/series/{seriesId}/reset-counter
Body: { "newIndex": 1 }
```



Tips & Tricks

1. Test Before Going Live

- Use the Test button with 1-2 files first
- Verify content quality matches expectations
- Check all platforms receive the post correctly

2. Organize Your Drive

- Create separate folders for different series
- Use consistent naming: `1-brief-description.ext`
- Keep files under 10MB for best performance

3. Monitor Progress

- Check the “File #X” indicator regularly
- Use Preview to see what’s coming next
- Review posted content in Dashboard → Posts

4. Seasonal Content

- Disable loop during off-season
- Reset counter at start of new season
- Update prompts for different contexts

5. Multiple Series

- Create separate series for different content types
 - Game highlights, practice sessions, team photos, etc.
 - Each can have its own schedule and prompt
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SOS Support

If you encounter issues:

1. **Check daemon logs:** `/home/ubuntu/google-drive-daemon.log`
 2. **Test manually:** Run daemon script directly
 3. **Verify API keys:** LATE_API_KEY, ABACUSAI_API_KEY
 4. **Check permissions:** Google Drive access
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Success Checklist

Before launching your first auto-posting series:

- [] Google Drive folder created with numbered files (1-, 2-, 3-)
- [] Series created in Dashboard with correct schedule
- [] Folder ID pasted correctly
- [] AI prompt written and tested
- [] Platforms selected and linked in Late
- [] Test button clicked and verified post appears
- [] Daemon running (cron job or PM2)
- [] First scheduled post confirmed successful

You're all set! Your content will now post automatically. 