N8N-Industry Digest

Setup & User Guide

Overview

N8N-Industry Digest is an automated, multi-source newsletter workflow for n8n. It fetches industry news from Google News, Reddit, and Hacker News RSS feeds, leverages advanced AI for summarization and image generation, and publishes a visually-rich newsletter delivered by email. Images are uploaded to WordPress, and the newsletter layout integrates article summaries and visual content, ready for seamless delivery to your subscribers.

- Automated, scheduled newsletter creation via n8n
- Merges industry articles from leading news sources
- AI-driven content summarization and custom newsletter images
- Direct WordPress image upload & Microsoft Outlook email integration
- Full no-code extensibility for further adaptation

Prerequisites

Before setting up, ensure the following are available:

- Working **n8n** instance (hosted or self-hosted)
- Access to:
  - Google News, Reddit, and Hacker News RSS URLs (free)
  - **OpenAI account** (for GPT-4o-mini model access)
  - **Google Gemini** API credentials (for image prompt processing)
  - **WordPress** site + REST API credentials (for media upload)
  - **Microsoft Outlook 365** account (for email sending)
  - **Microsoft Excel Online** spreadsheet (with subscriber list)
- Ability to create/configure required API credentials in n8n

Installation

1. **Download the workflow JSON** from your AI Solutions, Inc. delivery or client portal.
2. **Log in to your n8n instance.**
3. In the left-side workspace, click `Workflows`, then `Import`.
4. Upload the provided JSON. The workflow should appear as `Industry Digest` with 24 nodes.
5. Save and proceed to configuration.

Configuration

RSS Feeds

- Edit `Read Google News RSS`, `Read Reddit RSS`, and `Read Hacker News RSS` nodes to enter your desired RSS feed URLs:

  > **Tip:** For Google News, use topic-specific feeds: e.g. `https://news.google.com/rss/search?q=artificial+intelligence`. For Reddit, use subreddit feeds.

OpenAI: GPT-4o-mini Credentials

- **Required by:** `OpenAI GPT-4o-mini`, `Summarize Articles Agent`
- **How to Set Up:** In *n8n*, add your OpenAI API key under `API Credentials` as an OpenAI credential. Select this in both referenced nodes.
- **Note:** Use a GPT-4o enabled API key for optimal results.

Google Gemini API Credentials

- **Required by:** `Process Image Prompt 1` and `Process Image Prompt 2`
- **How to Set Up:** Obtain a Google Gemini API key, add it via `n8n Credentials` as a Gemini/Google AI Service credential, and link to the two image processing nodes.

WordPress API Credentials

- **Required by:** `Post Images to WordPress`
- **How to Set Up:** Create an **Application Password** for a WordPress user or use OAuth/Basic Auth. Store as a WordPress credential in n8n and select in the HTTP request node.
- **Permissions:** User must have rights to upload media.

Microsoft Outlook Credential

- **Required by:** `Email Newsletter to Subscribers`
- **How to Set Up:** Create/connect your Outlook/M365 account via n8n *Microsoft Outlook* credentials. Approve access.

Microsoft Excel Credential

- **Required by:** `Fetch Subscriber Rows`
- **How to Set Up:** Configure Excel credentials for the file hosting your subscriber email list. Use n8n's Excel Online/Onedrive connector and reference the correct worksheet/file.
- **Placeholders:**
  - `YOUR_DRIVE_ITEM_ID` :
    Replace in the data node with the actual file ID or URL for your subscriber Excel/Onedrive spreadsheet.

    > To retrieve your **Drive Item ID**, locate the ID in the sharing URL for your Excel file in OneDrive or SharePoint. Paste that value in the node configuration.

Usage

Once configured, the workflow is automatic, but can also be started manually for testing.

1. **Schedule Trigger:** By default, the `Weekly Trigger Schedule` node runs once per week. Adjust for daily digests or desired recurrence.
2. **RSS & Data Fetching:** The workflow collects latest articles from your configured Google News, Reddit, and Hacker News feeds, normalizes the formats, and merges the results.
3. **Article Selection & AI Summarization:** Selects key articles based on relevance and length, then uses GPT-4o-mini and agent nodes for concise AI-powered summaries.
4. **Prompt Generation & Image Creation:** Generates custom image prompts from summaries. Image prompts are processed by Google Gemini for rich illustrative assets.
5. **Image Upload & Integration:** Generated images are uploaded to your WordPress site, and the resulting URLs are merged with article data.
6. **Newsletter Construction:** Articles and their images are formatted into a visually appealing, HTML-rich email.
7. **Outlook Mailing:** The newsletter is sent to all subscriber addresses fetched from your Excel/OneDrive/SharePoint spreadsheet.

Process Map

- Trigger / Schedule → Fetch RSS → Normalize & Merge → Select & Summarize (AI) → Generate Prompts → Create Images (AI) → Upload to WordPress → Collect URLs
- Subscriber List (Excel) → Send newsletters via Outlook integration

Troubleshooting

- **Issue:** No emails sent
  Action: Ensure Outlook credential status is `Connected`. Check for errors in `Email Newsletter to Subscribers`.
- **Issue:** Images not uploading
  Action: Confirm WordPress API authentication and media permissions. Check response in `Post Images to WordPress` node.
- **Issue:** Placeholder (`YOUR_DRIVE_ITEM_ID`) not replaced
  Action: Paste the correct file ID from your Excel/OneDrive sharing URL in the relevant node.
- **Issue:** No articles found
  Action: Verify your RSS URLs are active and valid; test in a browser or RSS reader.
- **Issue:** AI step errors
  Action: Ensure OpenAI and Gemini API keys are active, have sufficient quota, and are selected in each relevant node.
- **General debugging:** Use n8n's built-in node execution logs to trace failures and review error messages at each step.

Support

For assistance, enhancements, or support with this workflow:

- **Email:** support@ais.email
- **Web:** automatedintelligentsolutions.com
- **Phone:** 404-293-0331