100+ n8n Automation Templates

AI Agents & OpenAI Workflows • No-Code Business Toolkit

Lead Generation • Content Creation • Email • Social Media • Customer Support • E-commerce • AI Agents • DevOps

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Introduction: Getting Started with n8n

n8n (pronounced "n-eight-n") is an open-source workflow automation platform that lets you connect apps, APIs, and AI models without writing code. Think of it as Zapier or Make, but self-hostable, more powerful, and with a generous free tier.

Self-Hosted vs. Cloud

Feature	Self-Hosted (Free)	n8n Cloud (from $20/mo)
Cost	Free (hosting costs only)	$20-$100+/month
Setup	Docker or npm install	Sign up and go
Executions	Unlimited	Plan-limited
Best for	Developers, high volume	Non-technical users

Key Concepts

- **Nodes:** Individual steps in a workflow (trigger, action, logic)
- **Triggers:** What starts the workflow (webhook, schedule, event)
- **Credentials:** API keys and OAuth tokens for connected services
- **Expressions:** Dynamic values using `{{ $json.field }}` syntax
- **Executions:** Each time a workflow runs from start to finish

Connecting to OpenAI

Most AI templates in this guide use the OpenAI node. To set it up: add OpenAI credentials in n8n with your API key, then use the "OpenAI" or "HTTP Request" node to call GPT-4, DALL-E, or Whisper endpoints. You can also use the "AI Agent" node for more complex multi-step reasoning.

Template Format

Each template includes: name, description, trigger type, node flow, key configuration notes, use case, and difficulty level.

`Beginner` = Ready in 15 min   `Intermediate` = 30-60 min   `Advanced` = 1-2 hours

Chapter 1: Lead Generation & CRM (15 Templates)

1. Website Form to CRM Auto-Entry Beginner

`[Webhook] → [Set Fields] → [HubSpot: Create Contact] → [Slack: Notify Sales]`

Captures form submissions via webhook, normalizes the data, creates a CRM contact, and pings your sales channel. Trigger: Webhook (POST from your website form).

2. Lead Enrichment with Clearbit Intermediate

`[CRM: New Contact Trigger] → [HTTP: Clearbit Enrichment API] → [IF: Has Company Data] → [CRM: Update Contact] → [Slack: Rich Lead Alert]`

When a new lead enters your CRM, automatically enriches with company data (size, industry, revenue, social profiles) via Clearbit. Updates the CRM record and alerts sales with the full profile.

3. AI Lead Scoring Advanced

`[Schedule: Daily 6AM] → [CRM: Get New Leads] → [OpenAI: Score Each Lead] → [CRM: Update Score Field] → [IF: Score > 80] → [Email: Hot Lead Alert]`

GPT-4 analyzes each lead's profile data (title, company size, engagement history) and assigns a 0-100 quality score. Hot leads (80+) trigger instant alerts to sales. Run daily to keep scores fresh.

4. LinkedIn Profile Scraper to CRM Intermediate

`[Webhook: New LinkedIn Connection] → [HTTP: Get Profile Data] → [OpenAI: Extract Key Info] → [CRM: Create/Update Contact] → [Google Sheets: Log]`

When you connect with someone on LinkedIn (via webhook integration), auto-extracts their profile data and creates a CRM entry with company, title, and notes. Requires LinkedIn API access or browser automation tool.

5. Automated Follow-Up Sequences Intermediate

`[Schedule: Daily] → [CRM: Get Leads Without Response 3+ Days] → [OpenAI: Generate Personalized Follow-Up] → [Gmail: Send Email] → [CRM: Log Activity]`

Finds leads who haven't responded in 3+ days, generates a personalized follow-up email using GPT-4 based on their profile and previous conversation context, and sends automatically.

6. Meeting Scheduler + Prep Notes Beginner

`[Calendly: New Booking] → [CRM: Lookup Contact] → [OpenAI: Generate Prep Notes] → [Slack: DM to Sales Rep] → [Google Docs: Create Meeting Doc]`

When someone books a meeting via Calendly, auto-looks up their CRM history and generates a prep brief with key talking points, past interactions, and potential objections.

7. Facebook Lead Ads to CRM + Welcome Email Beginner

`[Facebook: New Lead Ad Submission] → [CRM: Create Contact] → [Mailchimp: Add to Welcome Sequence] → [Slack: New Lead Alert]`

Captures Facebook Lead Ad form submissions instantly, creates CRM entry, adds to email nurture sequence, and notifies your team. No more manual CSV exports from Facebook.

8. Website Visitor Intent Tracker Advanced

`[Webhook: Page Visit Event] → [IF: Visited Pricing Page] → [CRM: Update Lead Stage] → [OpenAI: Assess Intent] → [Slack: Hot Prospect Alert]`

Tracks high-intent pages (pricing, demo, checkout) and updates lead stage in CRM. GPT analyzes visit patterns to assess buying readiness. Requires website tracking integration (Segment, PostHog).

9. Competitor Mention Monitor Intermediate

`[Schedule: Every 4 Hours] → [HTTP: Google Alerts/SERP API] → [OpenAI: Classify Mention Sentiment] → [Airtable: Log Mention] → [Slack: Competitive Intel Channel]`

Monitors web mentions of your competitors. AI classifies each mention by sentiment and relevance, then posts a summary to your competitive intel channel. Great for finding unhappy competitor customers.

10. Referral Program Tracker Beginner

`[Webhook: Referral Signup] → [CRM: Create Contact + Tag Referrer] → [Email: Thank Referrer] → [Google Sheets: Update Referral Leaderboard]`

Tracks referral signups, credits the referrer in CRM, sends a thank-you email, and updates a running leaderboard. Pair with your referral link system.

11. Dead Lead Reactivation Intermediate

`[Schedule: Weekly Monday] → [CRM: Get Leads Inactive 30+ Days] → [OpenAI: Write Re-engagement Email] → [Gmail: Send] → [CRM: Update Status]`

Resurrects cold leads with AI-personalized re-engagement emails based on their original interest. Tracks opens and replies to identify which leads are worth pursuing again.

12. Business Card Scanner to CRM Intermediate

`[Webhook: Photo Upload] → [OpenAI Vision: Extract Contact Info] → [CRM: Create Contact] → [Email: Send "Nice Meeting You"]`

Snap a photo of a business card, upload via webhook. GPT-4 Vision extracts name, email, phone, company, title. Creates CRM entry and sends a personalized follow-up email within minutes of meeting someone.

13. Webinar Attendee Pipeline Beginner

```
[Zoom: Webinar Ended] → [Get Attendee List] → [CRM: Create/Update Each] → [Mailchimp: Add
to Post-Webinar Sequence] → [Google Sheets: Attendance Log]
```

After each webinar, automatically processes all attendees into your CRM and email nurture sequence. Tags by attendance duration (full vs. partial vs. no-show).

14. Product Demo Request Auto-Qualifier Advanced

```
[Typeform: Demo Request] → [OpenAI: Qualify Based on Answers] → [IF: Qualified] →
[Calendly: Create Booking Link] → [Email: Send Link] / [ELSE] → [Email: Self-Serve
Resources]
```

AI analyzes demo request form answers to qualify leads. Qualified leads get instant meeting booking links. Others receive helpful self-serve resources. Saves sales team from unqualified calls.

15. Multi-Channel Lead Attribution Advanced

```
[Webhook: New Lead] → [HTTP: Get UTM/Source Data] → [Google Sheets: Attribution Log] →
[Aggregate: Weekly Summary] → [Slack: Channel ROI Report]
```

Captures source/medium/campaign for every lead, logs to spreadsheet, and generates a weekly ROI report showing which channels produce the highest-quality leads. Essential for marketing budget allocation.

Chapter 2: Content Creation & Publishing (15 Templates)

16. Blog Post Generator `Intermediate`

`[Schedule: Weekly Monday] → [Airtable: Get Topic Queue] → [OpenAI: Write 1500-Word Post] → [OpenAI: Generate Meta Description] → [WordPress: Create Draft] → [Slack: Review Request]`

Pulls the next topic from your content queue, generates a full SEO-optimized blog post with meta description, publishes as a WordPress draft, and notifies your editor for review.

17. Content Repurposing Pipeline `Intermediate`

`[WordPress: New Post Published] → [OpenAI: Create Twitter Thread] → [OpenAI: Create LinkedIn Post] → [OpenAI: Create Email Summary] → [Buffer: Schedule All] → [Mailchimp: Queue Newsletter]`

Every published blog post automatically becomes a Twitter thread, LinkedIn article summary, and email newsletter. Posts are scheduled across platforms with platform-specific formatting.

18. AI Image Generation for Blog Posts `Beginner`

`[WordPress: New Draft] → [OpenAI: Generate Image Prompt from Title] → [DALL-E 3: Generate Image] → [WordPress: Set Featured Image]`

Automatically generates a relevant DALL-E 3 header image for every new blog post based on the title and first paragraph. No more stock photo hunting.

19. SEO Content Brief Generator `Advanced`

`[Airtable: New Keyword Entry] → [HTTP: SERP API Top 10 Results] → [OpenAI: Analyze Competitors] → [OpenAI: Generate Content Brief] → [Google Docs: Create Brief] → [Slack: Notify Writer]`

Enter a target keyword; n8n scrapes the top 10 SERP results, feeds them to GPT-4 for competitive analysis, then generates a comprehensive content brief with recommended headings, word count, keywords, and angle.

20. YouTube Video to Blog Post `Intermediate`

`[YouTube: New Video Published] → [HTTP: Get Transcript via API] → [OpenAI: Convert Transcript to Blog Post] → [WordPress: Create Draft] → [Buffer: Promote]`

Automatically transcribes your new YouTube videos and converts them into well-structured blog posts. Maximizes your content investment across platforms.

21. Podcast Show Notes Generator `Beginner`

```
[Webhook: New Episode Audio] → [OpenAI Whisper: Transcribe] → [OpenAI: Generate Show Notes
+ Timestamps] → [WordPress: Create Post] → [Email: Send to Guest]
```

Upload a podcast episode, get automatic transcription, timestamped show notes, key takeaways, and guest bio. Published to your website and emailed to the guest for sharing.

22. Content Calendar Auto-Planner Intermediate

```
[Schedule: Monthly 1st] → [Google Analytics: Get Top Performing Content] → [OpenAI: Plan
Next Month] → [Airtable: Create 30 Content Cards] → [Slack: Monthly Plan Ready]
```

Analyzes your top-performing content from the past month, identifies patterns, and generates next month's content calendar with topics, formats, and target keywords. Auto-populates your planning board.

23. Headline A/B Test Generator Beginner

```
[Webhook: Blog Post URL] → [HTTP: Scrape Title] → [OpenAI: Generate 5 Headline Variants] →
[Google Sheets: Log Variants] → [Email: Send Options to Editor]
```

For any blog post, generates 5 headline variations using different psychological triggers (curiosity, urgency, numbers, how-to, contrarian). Editor picks the winner for publishing.

24. AI Newsletter Writer Intermediate

```
[Schedule: Weekly Friday] → [RSS: Get Week's Posts] → [HTTP: Get Industry News] → [OpenAI:
Write Newsletter] → [Mailchimp: Create Campaign] → [Slack: Preview Link]
```

Compiles your week's content plus industry news into a polished newsletter draft. GPT writes the commentary and transitions. Creates the campaign in your email tool ready for final review and send.

25. Grammar & Style Checker Beginner

```
[Webhook: Submit Text] → [OpenAI: Check Grammar + Brand Voice] → [Return: Corrected Text +
Suggestions]
```

Custom API endpoint that checks any text against your brand voice guidelines. Returns corrected text plus specific suggestions. Embed in your CMS or use as a standalone tool for your team.

26-30. More Content Templates:

26. Beginner Product description generator from product images (Vision API + GPT-4)

27. Intermediate FAQ page auto-generator from support tickets and chat logs

28. Intermediate Case study template filler: input client name + metrics, get formatted case study

29. Advanced Multi-language content translator with cultural adaptation (not just literal translation)

30. Intermediate Content performance weekly digest: top posts, engagement trends, keyword rankings

Chapter 3: Email Automation (15 Templates)

31. Welcome Email Sequence Beginner

```
[Mailchimp: New Subscriber] → [Wait 0min] → [Email: Welcome + Lead Magnet] → [Wait 2 days]
→ [Email: Your Story] → [Wait 3 days] → [Email: Soft Pitch]
```

Classic 3-email welcome sequence triggered on new subscriber. Email 1: immediate welcome + lead magnet delivery. Email 2: your story + credibility builders. Email 3: your product with social proof.

32. AI Email Responder Intermediate

```
[IMAP: New Email] → [OpenAI: Classify Intent] → [Switch: Route by Intent] → [OpenAI: Draft
Reply] → [Gmail: Save as Draft] → [Slack: Human Review Alert]
```

Reads incoming emails, classifies by intent (support, sales, partnership, spam), drafts an appropriate response using GPT, and saves as draft for human review. Handles 80% of inbox automatically.

33. Abandoned Cart Recovery Intermediate

```
[Webhook: Cart Abandoned] → [Wait 1 hour] → [IF: Not Purchased] → [OpenAI: Personalized
Recovery Email] → [Email: Send] → [Wait 24h] → [IF: Still Not Purchased] → [Email: Discount
Offer]
```

Multi-step cart recovery with AI-personalized messaging. First email is a helpful reminder. Second email (24h later) includes a discount code. Tracks conversion at each step.

34. Newsletter Auto-Generator Intermediate

```
[Schedule: Weekly] → [RSS: Industry Feeds] → [OpenAI: Curate + Summarize Top 5] → [OpenAI:
Write Commentary] → [Mailchimp: Create + Schedule Campaign]
```

Curates top industry news, summarizes each article, adds your brand voice commentary, and assembles a ready-to-send newsletter. Review and hit send.

35. Email Subject Line Optimizer Beginner

```
[Webhook: Campaign Draft Ready] → [OpenAI: Generate 10 Subject Lines] → [OpenAI: Score Each
by Open Rate Prediction] → [Return: Ranked List]
```

Input your email body and get 10 subject line options ranked by predicted open rate. Uses GPT trained on email marketing best practices. Includes A/B test recommendations.

36. Customer Feedback Request Beginner

```
[Shopify: Order Delivered] → [Wait 3 Days] → [OpenAI: Personalize Review Request] → [Email:
Send Review Request] → [Google Sheets: Track Responses]
```

3 days after delivery, sends a personalized review request email mentioning the specific products ordered. Includes direct links to Google Reviews or Trustpilot.

37. Win-Back Campaign `Intermediate`

`[Schedule: Monthly] → [CRM: Customers Inactive 90+ Days] → [OpenAI: Personalized Win-Back Based on Purchase History] → [Email: Send with Special Offer] → [CRM: Update Status]`

Identifies churned customers, references their specific past purchases, and crafts a personalized win-back offer. Tracks reactivation rate per campaign.

38-45. More Email Templates:

38. `Beginner` Birthday/anniversary auto-emailer with discount code generation

39. `Intermediate` Transactional email template filler (order confirm, shipping, delivery)

40. `Advanced` Email list cleaning: detect inactive subscribers, re-engage or remove

41. `Intermediate` Weekly sales recap email to team with charts and AI commentary

42. `Beginner` New employee onboarding email sequence (day 1, week 1, month 1)

43. `Intermediate` Event RSVP confirmation + pre-event info drip sequence

44. `Advanced` Dynamic email content based on subscriber behavior and preferences

45. `Intermediate` Post-purchase upsell email with AI product recommendations based on order

Chapter 4: Social Media Management (15 Templates)

46. Cross-Platform Post Scheduler `Intermediate`

```
[Airtable: Post Approved] → [OpenAI: Adapt for Each Platform] → [Twitter: Post Thread] →
[LinkedIn: Post Article] → [Facebook: Post] → [Airtable: Update Status]
```

One content entry creates platform-optimized versions for Twitter (thread), LinkedIn (professional tone), Facebook (engaging), and schedules each at the optimal time for that platform.

47. Social Listening + Engagement Bot `Advanced`

```
[Schedule: Every 30 min] → [Twitter API: Search Brand Mentions] → [OpenAI: Classify
Sentiment] → [IF: Negative] → [Slack: Urgent Alert] / [IF: Positive] → [Twitter: Like +
Queue Reply]
```

Monitors brand mentions in real-time. Positive mentions get auto-liked and a friendly reply queued. Negative mentions trigger immediate alerts to your support team. Neutral mentions logged for review.

48. Trending Topic Content Creator `Intermediate`

```
[Schedule: Daily 8AM] → [HTTP: Twitter Trends API] → [OpenAI: Find Relevant Trends] →
[OpenAI: Create Timely Posts] → [Buffer: Schedule] → [Slack: Preview]
```

Scans daily trending topics, identifies those relevant to your niche, and generates timely social media posts that ride the trend while staying on-brand. Posts within hours of trends breaking.

49. Instagram Carousel Generator `Intermediate`

```
[Webhook: Blog Post URL] → [HTTP: Scrape Content] → [OpenAI: Create 10-Slide Carousel
Script] → [DALL-E: Generate Cover Image] → [Google Slides: Create Carousel] → [Slack: Ready
for Review]
```

Transforms any blog post into an Instagram carousel with hook slide, value slides, and CTA slide. Generates the cover image and creates slides in Google Slides for easy export.

50. Hashtag Research + Strategy `Beginner`

```
[Webhook: Niche/Topic Input] → [HTTP: Instagram/TikTok API] → [OpenAI: Categorize by Size]
→ [Return: Hashtag Strategy (small/medium/large mix)]
```

Input your niche; get a categorized hashtag strategy with a mix of small (under 100K), medium (100K-1M), and large (1M+) hashtags. Updated with current volumes.

51. UGC (User-Generated Content) Collector `Intermediate`

```
[Schedule: Hourly] → [Instagram: Search Branded Hashtag] → [IF: Quality Check (min likes)]
→ [Airtable: Save Post Details] → [Email: Permission Request to Creator]
```

Monitors your branded hashtag, identifies high-quality UGC posts, saves them to a content library, and auto-sends permission request emails to creators for reposting.

52. DM Auto-Response Intermediate

```
[Instagram: New DM] → [OpenAI: Classify Intent] → [Switch: FAQ / Price Inquiry / Support /
Other] → [OpenAI: Draft Response] → [Instagram: Reply] → [CRM: Log Interaction]
```

Handles Instagram DMs automatically. Common questions (pricing, hours, shipping) get instant AI-generated responses. Complex queries are escalated to a human with context provided.

53-60. More Social Templates:

53. Beginner Auto-repost top-performing content from 30+ days ago (evergreen recycler)

54. Intermediate Competitor content tracker: monitor competitor posts, engagement, frequency

55. Advanced TikTok trend analyzer: identify trending sounds/effects relevant to your brand

56. Beginner Social media analytics weekly report: compile metrics into formatted summary

57. Intermediate Pinterest pin auto-creator from blog posts with keyword-rich descriptions

58. Intermediate Reddit comment monitor: track niche subreddits for relevant discussions

59. Advanced Social proof aggregator: collect reviews from all platforms into one dashboard

60. Beginner Auto-thank new followers with personalized DM (use sparingly)

Chapter 5: Customer Support (10 Templates)

61. AI Ticket Classifier + Auto-Router `Intermediate`

```
[Zendesk: New Ticket] → [OpenAI: Classify Category + Priority + Sentiment] → [Zendesk: Set
Tags + Priority] → [IF: Urgent] → [Slack: Alert On-Call] / [ELSE] → [Zendesk: Route to
Team]
```

AI reads every incoming ticket, classifies by category (billing, technical, feature request), priority (P1-P4), and sentiment (angry, neutral, happy). Routes to the right team with context.

62. FAQ Auto-Responder `Beginner`

```
[Zendesk: New Ticket] → [OpenAI: Match Against FAQ Database] → [IF: High Confidence Match]
→ [Zendesk: Reply with Answer] → [ELSE] → [Route to Human]
```

Checks if incoming tickets match known FAQs. High-confidence matches get instant automated responses. Others go to humans. Can handle 40-60% of common questions automatically.

63. Customer Satisfaction Survey + Analysis `Intermediate`

```
[Zendesk: Ticket Closed] → [Wait 24h] → [Email: CSAT Survey] → [Webhook: Survey Response] →
[OpenAI: Analyze Feedback] → [Google Sheets: Log] → [IF: Negative] → [Slack: Manager Alert]
```

After ticket resolution, sends a satisfaction survey. AI analyzes open-text feedback for themes and sentiment. Negative feedback triggers immediate manager notification for follow-up.

64-70. More Support Templates:

64. `Advanced` Knowledge base article auto-generator from resolved ticket patterns

65. `Intermediate` Escalation detector: AI identifies tickets that need manager attention before they escalate

66. `Beginner` SLA breach warning: alert when tickets approach response time limits

67. `Intermediate` Multilingual support: auto-detect language and translate ticket + reply

68. `Advanced` Bug report aggregator: group similar bug reports, create Jira issue with count

69. `Beginner` Out-of-hours auto-responder with estimated response time

70. `Intermediate` Agent performance dashboard: response times, resolution rates, CSAT scores per agent

Chapter 6: Data Processing & Analytics (10 Templates)

71. Spreadsheet Data Cleaner Intermediate

```
[Google Sheets: Trigger on New Row] → [OpenAI: Normalize Data] → [Set: Standardize Formats]
→ [Google Sheets: Update Clean Version]
```

Normalizes messy spreadsheet data: standardizes phone numbers, capitalizes names, formats addresses, deduplicates entries, fills missing fields where possible using AI inference.

72. Weekly Business Report Generator Advanced

```
[Schedule: Monday 7AM] → [Stripe: Get Revenue] → [Google Analytics: Get Traffic] → [CRM:
Get Pipeline] → [OpenAI: Write Executive Summary] → [Google Docs: Create Report] → [Email:
Send to Team]
```

Pulls data from all business tools, compiles into a professional weekly report with AI-written executive summary, trends analysis, and recommended actions.

73-80. More Data Templates:

73. Beginner CSV file processor: auto-import, clean, and distribute uploaded data files

74. Intermediate Price monitoring: track competitor prices daily, alert on changes, log history

75. Advanced Financial reconciliation: match transactions between bank and accounting software

76. Intermediate Survey response analyzer: collect Google Form responses, AI-summarize themes

77. Beginner Dashboard data refresher: update Google Sheets data sources on schedule

78. Intermediate Invoice data extractor: PDF invoices → structured data in spreadsheet

79. Advanced Anomaly detector: flag unusual metrics in daily data (traffic drops, revenue spikes)

80. Intermediate API data aggregator: combine data from multiple APIs into unified report

Chapter 7: E-commerce Operations (10 Templates)

81. Order Processing Pipeline `Beginner`

```
[Shopify: New Order] → [Google Sheets: Log Order] → [Slack: Notify Fulfillment] → [Email:
Order Confirmation to Customer] → [IF: High Value] → [CRM: Flag VIP]
```

Every new order is logged, fulfillment team notified, customer gets branded confirmation email. High-value orders ($100+) automatically flagged as VIP in CRM for priority treatment.

82. Inventory Low Stock Alert `Beginner`

```
[Schedule: Daily 6AM] → [Shopify: Get All Products] → [IF: Stock < Threshold] → [Email: Low
Stock Report] → [Slack: Alert Purchasing] → [Airtable: Reorder Queue]
```

Daily inventory check flags products below reorder threshold. Sends formatted report to purchasing team and adds to reorder queue. Never sell out unexpectedly again.

83. Review Monitoring + Response `Intermediate`

```
[Schedule: Every 4h] → [HTTP: Get New Reviews (Google/Trustpilot)] → [OpenAI: Analyze
Sentiment] → [IF: Negative] → [OpenAI: Draft Empathetic Response] → [Slack: Urgent + Draft]
/ [IF: Positive] → [OpenAI: Thank You Response]
```

Monitors reviews across platforms. Positive reviews get thank-you responses. Negative reviews trigger alerts with AI-drafted empathetic responses for your team to customize and post.

84-90. More E-commerce Templates:

84. `Intermediate` Product description generator: specs + images → compelling listing copy for each platform

85. `Advanced` Dynamic pricing: monitor competitors, suggest price adjustments, track elasticity

86. `Beginner` Shipping notification: track packages, update customers at each milestone

87. `Intermediate` Return/refund processor: classify reason, route to appropriate handler, update inventory

88. `Intermediate` Product recommendation email: AI analyzes purchase history, suggests complementary items

89. `Advanced` Supplier communication: auto-generate POs when inventory hits reorder point

90. `Beginner` Sales flash report: daily revenue, top sellers, conversion rate → Slack summary

Chapter 8: AI Agent Workflows (15 Templates)

91. Multi-Step Research Agent `Advanced`

`[Webhook: Research Query] → [AI Agent: Plan Research Steps] → [Loop: Execute Each Step] →`
`[HTTP: Search APIs] → [AI Agent: Synthesize Findings] → [Google Docs: Write Report] →`
`[Email: Deliver]`

A true AI agent that breaks down a research question into sub-tasks, executes each (web search, API calls, data analysis), synthesizes findings, and delivers a structured report. Uses the n8n AI Agent node with tool-calling.

92. RAG (Retrieval-Augmented Generation) Pipeline `Advanced`

`[Webhook: User Question] → [Pinecone: Semantic Search] → [Get Top 5 Relevant Docs] →`
`[OpenAI: Answer with Context] → [Return: Answer + Sources]`

Build a custom knowledge base chatbot. User asks a question, relevant documents are retrieved from vector database (Pinecone/Qdrant), and GPT answers using only your data. Perfect for internal wikis, product docs, or customer FAQs.

93. Conversational Sales Agent `Advanced`

`[Webhook: Chat Message] → [Memory: Load Conversation] → [AI Agent: Process with Product`
`Catalog + Pricing] → [IF: Ready to Buy] → [Generate Checkout Link] → [Memory: Save Turn] →`
`[Return: Response]`

An AI sales agent that understands your product catalog, answers questions, handles objections, and generates checkout links when the customer is ready. Maintains conversation context across messages.

94. Content Strategy Agent `Advanced`

`[Schedule: Weekly] → [AI Agent: Analyze Performance Data] → [Tool: Google Analytics API] →`
`[Tool: Social Media APIs] → [AI Agent: Generate Strategy] → [Airtable: Create Tasks] →`
`[Slack: Strategy Brief]`

An autonomous agent that reviews your content performance across all channels, identifies trends, and generates a strategic plan with specific content tasks. Thinks like a content marketing manager.

95. Document Processing Agent `Intermediate`

`[Webhook: Upload Document] → [AI Agent: Classify Document Type] → [Switch:`
`Invoice/Contract/Receipt/Other] → [OpenAI: Extract Structured Data] → [Airtable: Store] →`
`[Return: Extracted Data]`

Upload any business document (invoice, contract, receipt). AI classifies it, extracts all relevant fields (amounts, dates, parties, terms), and stores structured data. Handles PDFs, images, and text files.

96. Meeting Notes Agent Intermediate

`[Webhook: Audio File Upload] → [Whisper: Transcribe] → [OpenAI: Extract Action Items + Decisions + Key Points] → [Notion: Create Meeting Notes Page] → [Email: Send Summary to Attendees] → [Asana: Create Tasks from Action Items]`

Upload meeting audio or connect to Zoom recording. Gets transcribed, then AI extracts action items, key decisions, and discussion points. Creates formatted notes and auto-generates task items.

97-105. More AI Agent Templates:

97. Advanced Code review agent: GitHub PR → AI reviews code, suggests improvements, checks for bugs

98. Intermediate Sentiment analysis dashboard: aggregate customer sentiment from all channels daily

99. Advanced Data analyst agent: natural language questions → SQL queries → chart generation → insights

100. Intermediate Email summarizer: daily digest of all emails with AI-written 1-sentence summaries

101. Advanced Multi-agent debate: two AI agents argue pros/cons of a business decision, produce balanced report

102. Intermediate Competitive intel agent: weekly automated competitor analysis with market positioning insights

103. Advanced Autonomous task delegator: AI breaks project into tasks and assigns to team based on skills/availability

104. Intermediate Brand voice checker: AI reviews any content against your brand guidelines before publishing

105. Advanced Full autonomous content pipeline: research → write → edit → image → publish → promote (minimal human oversight)

Chapter 9: DevOps & IT (10 Templates)

106. Server Health Monitor `Beginner`

```
[Schedule: Every 5 min] → [HTTP: Ping Endpoints] → [IF: Status != 200] → [Slack: Alert
#incidents] → [PagerDuty: Create Incident] → [Google Sheets: Log Downtime]
```

Monitors your web endpoints every 5 minutes. Any non-200 response triggers immediate alerts via Slack and PagerDuty. Logs all incidents for uptime reporting.

107. Deployment Notification Pipeline `Beginner`

```
[GitHub: Push to Main] → [HTTP: Get Commit Details] → [OpenAI: Summarize Changes] → [Slack:
Deploy Notification] → [Notion: Update Changelog]
```

Every push to main branch generates a human-readable summary of changes (using AI to interpret commit messages), posts to Slack, and updates your changelog.

108. Log Analysis + Alert `Advanced`

```
[Schedule: Every 15 min] → [HTTP: Get Recent Logs] → [OpenAI: Analyze for Anomalies] → [IF:
Critical Pattern Detected] → [Slack: Alert with Context] → [Jira: Create Bug Ticket]
```

AI analyzes application logs for error patterns, unusual frequencies, and potential security issues. Critical findings auto-create bug tickets with full context and suggested fixes.

109-115. More DevOps Templates:

109. `Intermediate` SSL certificate expiry checker: weekly scan, 30/14/7 day warnings

110. `Beginner` Database backup verifier: check backup completed, test restore, alert on failure

111. `Intermediate` Security vulnerability scanner: check dependencies against CVE database weekly

112. `Advanced` Cost optimization: analyze cloud spending, identify idle resources, suggest savings

113. `Beginner` Domain/DNS monitor: track DNS changes, alert on unexpected modifications

114. `Intermediate` CI/CD pipeline status dashboard: aggregate build statuses across repos

115. `Intermediate` Automated staging environment provisioning on PR creation

Chapter 10: Advanced Patterns

Error Handling

Every production workflow needs error handling. Use the "Error Trigger" node to catch failures, the "IF" node to check for expected data, and the "Stop and Error" node when you need to halt execution gracefully. Always add a Slack/email notification on the error path so you know when something breaks.

> **Best Practice:** Wrap API calls in try/catch patterns using the "Error Trigger" workflow. Create a dedicated error-handling workflow that logs all failures to a Google Sheet with timestamp, workflow name, error message, and input data.

Retry Logic

External APIs fail. Set retry options on HTTP Request nodes: 3 retries with exponential backoff (1s, 2s, 4s). For critical workflows, add a "Wait" node before retry and a fallback path for permanent failures.

Webhook Security

- Always use HTTPS webhook URLs
- Validate incoming webhook signatures (e.g., Stripe signature verification)
- Add IP allowlisting where possible
- Use authentication headers for webhook endpoints
- Rate-limit webhook processing to prevent abuse

Rate Limiting

Most APIs have rate limits. Use the "Wait" node between API calls (e.g., wait 1 second between each API call in a loop). For batch processing, split items into chunks and process with delays. The "Split In Batches" node is your friend here.

Credential Management

- Never hardcode API keys in workflows — always use n8n's credential system
- Rotate keys regularly (set calendar reminders)
- Use environment variables for sensitive config on self-hosted instances
- Create separate credentials for dev and production

Scaling Tips

- **Queue mode:** For high-volume workflows, use n8n's queue mode with Redis + multiple workers
- **Execution data pruning:** Auto-delete old execution data to keep the database lean
- **Sub-workflows:** Break complex workflows into smaller, reusable sub-workflows
- **Deduplication:** Use unique IDs and check for existing records before creating duplicates
- **Monitoring:** Set up execution count alerts — sudden drops or spikes indicate problems

Testing Workflows

Always test with sample data before enabling triggers. Use the "Manual Trigger" node for testing, then switch to the real trigger. Test edge cases: empty data, missing fields, API errors, and rate limits. Document your workflows with "Sticky Note" nodes explaining the logic.

Final Tip: Start simple. Your first workflow should be one trigger and one action. As you get comfortable, chain more nodes together. The templates in this guide are your blueprints — customize them for your specific tools and processes. The n8n community forum is incredibly helpful for troubleshooting.

Thank you for reading!

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