

# n8n Cheat Sheet

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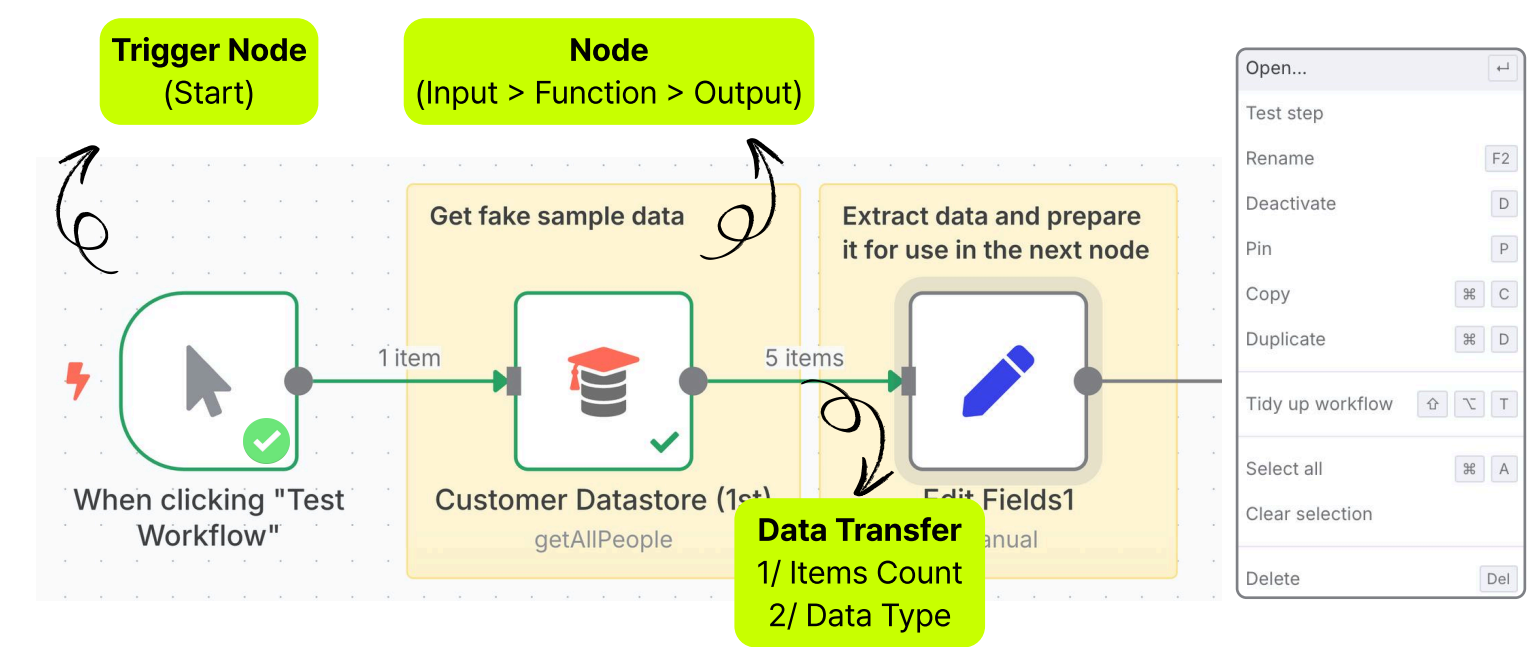
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## Getting Started with Triggers



## Expressions

Type	expression
basic	{{ \$json["key"] }}
node nomination	{{ \$node["nodeName"].json["value"] }}
date formatting	{{ \$now.format("yyyy-MM-dd") }}
Condition	{{ \$json["price"] > 100 }}
ternary operator	{{ \$json["price"] > 100 ? "expensive" : "cheap" }}
built-in methods	\$jmespath(), \$fromAll(), \$max(), \$min() <a href="https://docs.n8n.io/code/builtin/data-transformation-functions/">https://docs.n8n.io/code/builtin/data-transformation-functions/</a>
meatdata	\$execution, \$itemIndex, \$input, \$parameter, \$prevNode, \$runindex, \$today, \$vars, \$workflow, \$nodeVersion, \$now

## Built-in nodes

Category	Setting	Description
Trigger Node	<b>Manual</b>	A trigger that can be executed by the user manually.
	<b>Schedule</b>	Executes workflow at specified time intervals.
	<b>Form</b>	Uses form data submitted by the user as a trigger.
	<b>Chat</b>	Triggers based on chat input or messages.
	<b>Webhook</b>	External system sends an HTTP request to trigger the workflow.
	<b>Workflow</b>	Executed when called from other workflows.
	<b>Edit Fields (Set)</b>	Can set or modify field values.
	<b>Remove Duplicate</b>	Removes duplicated data.
	<b>IF</b>	Branches flow using conditions.
	<b>Aggregate</b>	Groups multiple data and summarizes.
Core Node	<b>Split out</b>	Split the set into individual elements
	<b>Filter</b>	Filters only data that meets conditions.
	<b>Summarize</b>	Summarizes data counts, averages, etc.
	<b>Code</b>	Can process data with JavaScript code.
	<b>Merge</b>	Combines two data streams.
	<b>Sort</b>	Sorts data by specified criteria.
	<b>Limit</b>	Limits the amount of data to output.
	<b>Loop</b>	Executes nodes repeatedly.
	<b>Wait</b>	Waits for a specified time period.
	<b>Convert to File</b>	Converts data to file format.
	<b>Extract from File</b>	Extracts data from files.
	<b>Compression</b>	Performs file compression or decompression.
	<b>Stop and Error</b>	Stops the workflow or generates errors.
	<b>HTTP Request</b>	Sends HTTP requests to external APIs.



## Docker self-hosting

### # Install n8n docker

```
git clone https://github.com/n8n-io/self-hosted-ai-starter-kit.git
cd self-hosted-ai-starter-kit
```

### # Update Latest version

```
sudo docker pull docker.n8n.io/n8nio/n8n
```

### # Stop Container

```
sudo docker stop n8n
```

### # Remove Container

```
sudo docker rm n8n
```

### # Docker Run

```
sudo docker run -it \
--restart unless-stopped \
--name n8n \
-p 5678:5678 \
-v n8n_data:/home/node/.n8n \
# Interactive mode
# Auto-restart policy
# Container name
# Port mapping
# Persistent volume
```

```
-e WEBHOOK_URL="https://n8n.example.com/" \
-e N8N_SMTP_HOST="smtp.gmail.com" \
-e N8N_SMTP_PORT=465 \
-e N8N_SMTP_USER="YOUR_EMAIL" \
-e N8N_SMTP_PASS="wcmj yyyI uwuc syf" \
-e N8N_SMTP_SENDER="YOUR_EMAIL" \
-e N8N_SMTP_SECURE="true" \
-e N8N_SMTP_SSL="true" \
# Public webhook URL
# SMTP port
# SMTP port
# SMTP user email
# SMTP app password
# Email sender
# Enable secure SMTP
# Enable SSL for SMTP
```

```
-e GENERIC_TIMEZONE="Asia/Seoul" \
-e N8N_DIAGNOSTICS_ENABLED=false \
-e N8N_VERSION_NOTIFICATIONS_ENABLED=false \
-e VUE_APP_URL_BASE_API=https://n8n.example.com/ \
# Set timezone
# Disable diagnostics
# Disable version check
# Frontend base API URL
```

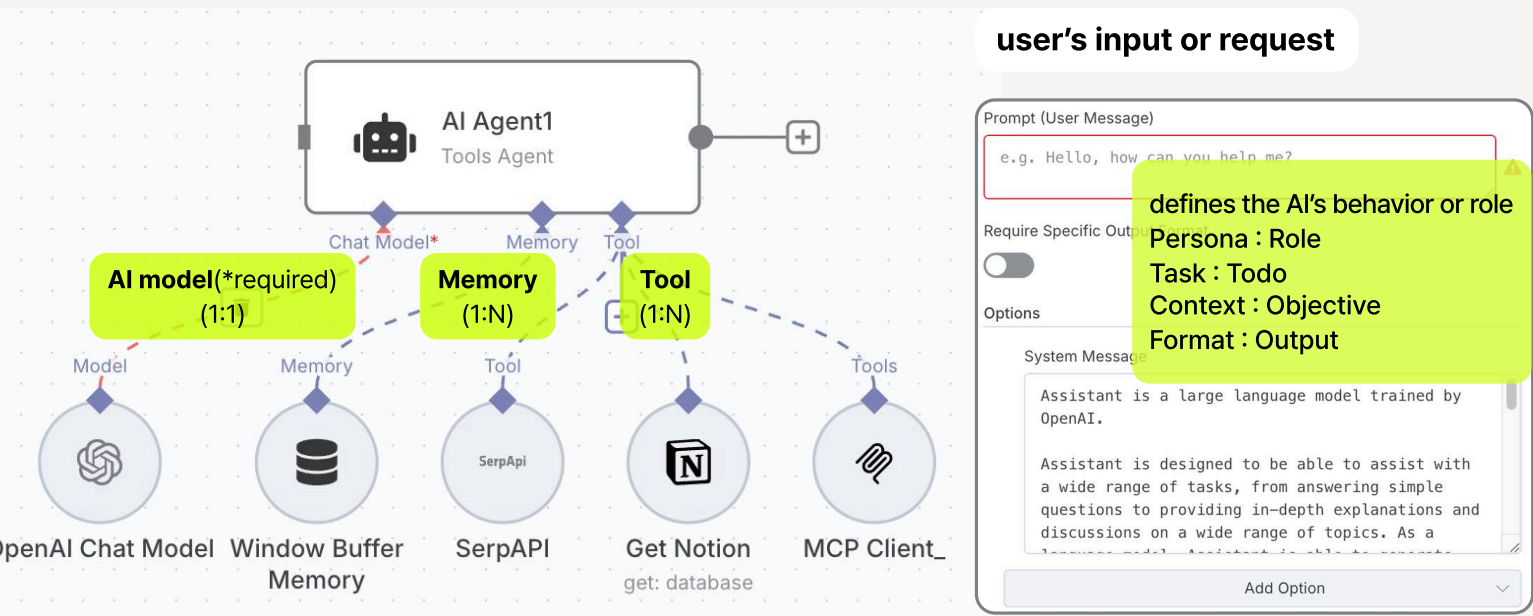
```
-e N8N_ENCRYPTION_KEY=<SOME RANDOM STRING> \
-e N8N_TEMPLATES_ENABLED="false" \
-e N8N_USER_FOLDER=/home/jim/n8n \
# Encryption key
# Disable templates
# User folder path
```

```
-e EXECUTIONS_TIMEOUT=3600 \
-e EXECUTIONS_TIMEOUT_MAX=7200 \
# Execution timeout (s)
# Max execution time (s)
```

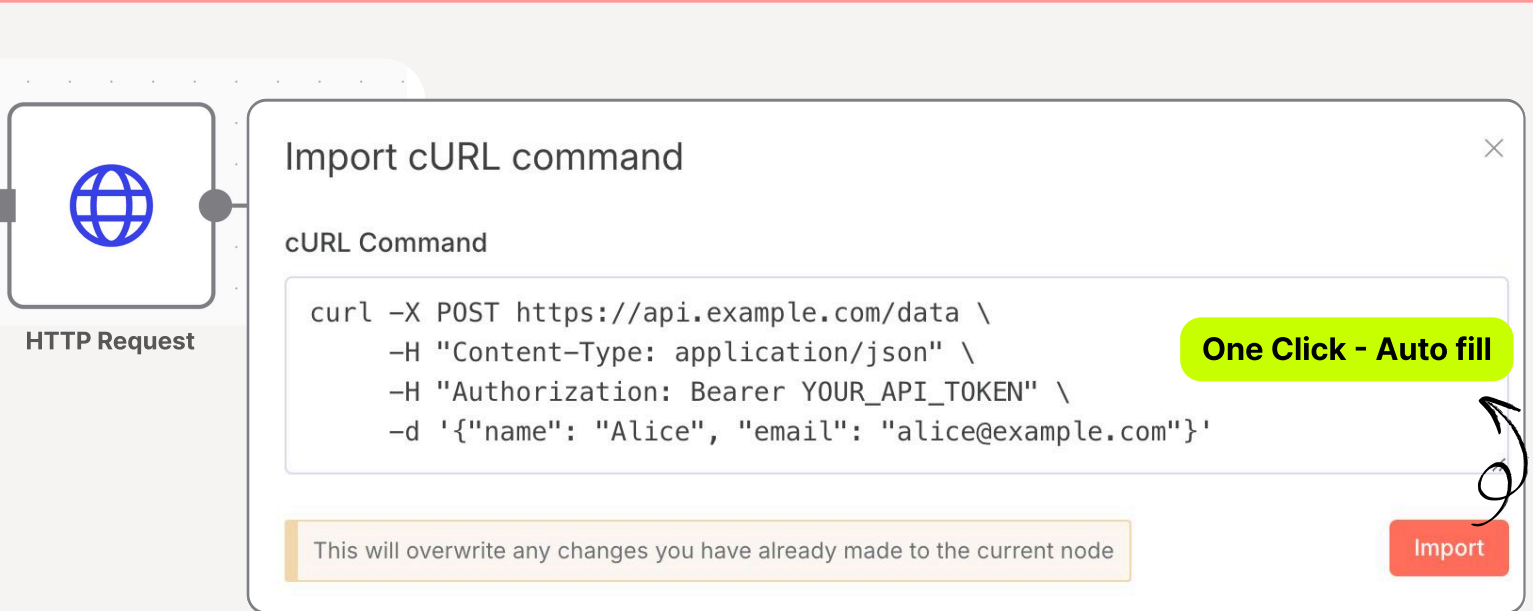
```
-e N8N_METRICS=true \
-e N8N_CUSTOM_EXTENSIONS="/home/jim/n8n/custom-nodes/data/n8n/nodes" \
-e NODE_FUNCTION_ALLOW_BUILTIN=* \
# Enable Prometheus metrics
# Custom nodes path
# Allow built-in modules
```

```
-d docker.n8n.io/n8nio/n8n:latest
# Run latest n8n in background
```

## AI Agent



## HTTP Request(API)



## Keyboard short-cut

Category	Detail	Shortcut / Gesture
Workflow Control	Create New Workflow	Ctrl + Alt + N
	Open Workflow	Ctrl + O
	Save Current Workflow	Ctrl + S
	Undo	Ctrl + Z
	Redo	Ctrl + Shift + Z
Canvas Navigation	Run Workflow	Ctrl + Enter
	Move Node View	Ctrl + Left Mouse + Drag
	Move Node View	Ctrl + Middle Mouse + Drag
	Move Node View	Space + Drag
	Move Node View	Middle Mouse + Drag
Canvas Zoom	Move Node View	Two Fingers on Touchscreen
	Zoom In	=+ or =
	Zoom Out	- or _
	Reset Zoom	0
	Fit Workflow to View	1
Canvas Nodes	Zoom In/Out	Ctrl + Mouse Wheel
	Select All Nodes	Ctrl + A
	Paste Node	Ctrl + V
	Add Note	Shift + S
When Node is Selected	Select Node Below	↓
	Select Node to the Left	←
	Select Node to the Right	→
	Select Node Above	↑
	Copy	Ctrl + C
	Cut	Ctrl + X
	Disable	D
	Delete	Delete
	Open	Enter
	Rename	F2
	Pin Data	P
	Select All Left-side Nodes	Shift + ←
	Select All Right-side Nodes	Shift + →
Node Panel	Open Node Panel	Tab
	Insert Node	Enter
	Close Node Panel	Escape
Node Panel Category	Insert / Expand Node	Enter
	Expand Category	→
	Collapse Category	←
Inside Node	Toggle Expression Mode	=

## Nodes Common Setting

Category	Setting	Description
Node Settings	Always Output Data	Returns an empty item even when there's no data. Be careful as this may cause infinite loops with IF nodes.
	Execute Once	Processes only the first item and ignores the rest.
	Retry On Fail	Retries until successful upon failure.
Error Handling	On Error: Stop Workflow	Stops the entire workflow when an error occurs.
	On Error: Continue	Continues to the next node even if there's an error, using the last valid data.
	On Error: Continue (using error output)	Passes the error info to the next node and continues the workflow.
Node Notes	Notes	Allows you to add a memo to the node.
	Display note in flow	When enabled, displays the memo like a subtitle inside the workflow.

## Community & Resources

The n8n community is active and growing. Check out:

- Official Docs: [docs.n8n.io](#)
- Community Forum: [community.n8n.io](#)
- Discord Chat: [discord.gg/n8n](#)
- GitHub (Issues, PRs, source code): [n8n-io/n8n](#)

Thx to u/MixConception 🍿