Docker n8n WHMCS module

WHMCS module for Docker n8n that automates the provisioning and management of n8n workflow automation instances on a Docker server. The module supports automatic container creation, suspension, termination, IP access control, resource monitoring, metric billing, and email notifications for disk space limits.

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Description

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Docker n8n WHMCS module

The **WHMCS Docker n8n module** is designed for automated provisioning and management of n8n workflow automation instances on a Docker server. It seamlessly integrates with WHMCS, allowing businesses to sell and manage n8n services efficiently.

> Before you start, it is important to read and familiarize yourself with the following articles at this link: https://doc.puq.info/books/docker-modules

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Key Features

Automated Container Management

- Automatic creation of an n8n container upon service order
- Automated package upgrades

Service Control & Security

- Service creation
- Service suspension and reactivation
- Service termination
- Full reinstallation
- IP access control

Advanced Diagnostic Tools

- Built-in tools for diagnosing and managing containers
- Container logs viewer
- Real-time resource monitoring (CPU, Memory, Disk)

Multilingual Support

- Supports multiple languages, including **Arabic, Azerbaijani, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Farsi, French, German, Hebrew, Hungarian, Italian, Macedonian, Norwegian, Polish, Romanian, Russian, Spanish, Swedish, Turkish, and Ukrainian**

Fully Customizable Workflows

- Uses **n8n workflows** to automate processes, allowing full customization for business-specific needs

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Admin Panel Options

- Create, Suspend, Unsuspend, Terminate, Change Package
- Container Start / Container Stop
- Mount Disk / Unmount Disk
- API connection status
- Container status and resource monitoring
- Container logs
- Application information

Client Panel Options

- n8n web interface access link

- Container status with CPU, Memory, Disk usage
- Application version and user information
- Change owner password
- IP Access Control (Restrict by IP)
- Reinstall service
- Metric statistics (Traffic IN/OUT)

System requirements

Requirement	Minimum
WHMCS	9+
PHP	8.1, or 8.2
ionCube Loader	v13 or newer (v14, v15)
Docker server	Debian 12 with Docker installed
n8n server	For workflow automation

Links

- **Product page:** https://puqcloud.com/whmcs-module-docker-n8n.php
- **Documentation:** https://doc.puq.info/books/docker-n8n-whmcs-module
- **Support:** https://puqcloud.com/submitticket.php
- **Community:** https://community.puqcloud.com/

Screenshots

Client area — Home screen

Domain | Metrics

User manual

n8n

Go to n8n: https://1-5507.d01-test.uuq.pl/

Change Owner Password

Container

Status: Running

CPU usage: 1 CPU — 100%

Memory usage: 187MiB / 1GiB — 18% / 82%

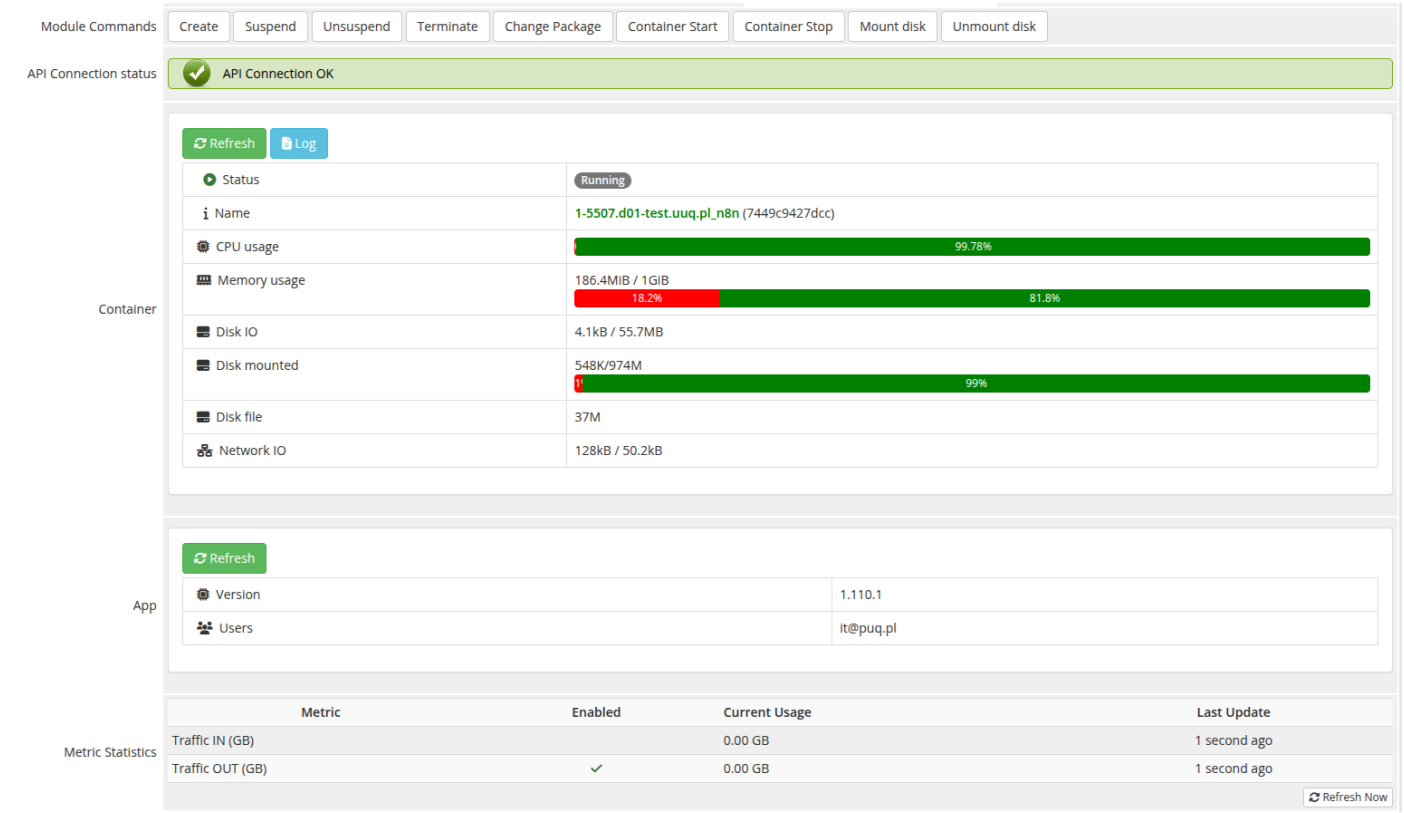
Disk usage: 548K / 974M — 99%

App

Version: 1.110.1

Users: it@puq.pl

Admin area — Product information



Changelog

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v2.0 (28-03-2026)

- Support for WHMCS 9+
- Product module settings have been redesigned
- Updated client area interface design
- Improved license management and admin notifications
- Enhanced product configuration experience
- PHP 8.1+ compatibility improvements

> **Note:** Product reconfiguration is required after update.

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v1.0 (17-03-2025)

- First release

Installation and Configuration Guide

Step-by-step instructions for installing, configuring, and setting up the Docker n8n WHMCS module, including Docker server preparation, n8n workflow setup, WHMCS integration, email templates, and product configuration.

Basic concepts and requirements

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Overview

The **Docker n8n WHMCS module** is part of the Docker module series by PUQcloud. It automates the deployment and management of n8n workflow automation instances using Docker containers.

Core Components

The system consists of three main components:

1. **WHMCS Module** — The core provisioning component installed on your WHMCS server
2. **Debian 12 Server** — Hosts Docker containers with n8n instances
3. **n8n Server** — Facilitates communication between WHMCS and the Docker server

Key Features

- **Workflow Automation** — Uses n8n workflows as an API interface for Docker operations
- **Flexibility & Customization** — All workflows and scripts are fully customizable

Prerequisites

Before proceeding with installation, review the foundational Docker module documentation:

https://doc.puq.info/books/docker-modules

WHMCS setup (install/update)

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System requirements

The module uses ionCube encoding. Your server must meet the following requirements:

Requirement	Minimum
PHP	8.1 or 8.2
WHMCS	9+ or higher
ionCube Loader	v13 or newer (v14, v15)

> **Note:** Module is coded with ionCube v13

> To install and update a module, you must perform one and the same action.

Step 1 — Download the latest version of the module

PHP 8.2

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Docker-n8n/php82/PUQ_WHMCS-Docker-n8n-latest.zip
```

All versions are available via link: https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Docker-n8n/

Step 2 — Unzip the archive with the module

```
unzip PUQ_WHMCS-Docker-n8n-latest.zip
```

Step 3 — Copy and Replace

Copy the `puqDockerN8N` directory from the extracted `PUQ_WHMCS-Docker-n8n` archive to your WHMCS installation:

```
WHMCS_WEB_DIR/modules/servers/
```

> **Note:** To install and update a module, you must perform one and the same action — download and copy the latest version over the existing files.

Preparing Docker server

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Docker Installation

For detailed instructions on installing and configuring Docker for PUQcloud modules, please refer to the dedicated documentation:

https://doc.puq.info/books/docker-modules/page/installing-docker-for-puqcloud-modules

Setting up n8n workflow

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Overview

The n8n workflow serves as the API interface between WHMCS and the Docker server. It receives commands from the WHMCS module and executes corresponding Docker actions via SSH.

Prerequisites

- Self-hosted n8n instance or n8n cloud account
- SSH access to the Docker server

Installation Options

Option 1: n8n Marketplace

Use the latest n8n Marketplace templates from the PUQcloud creator profile.

Option 2: Manual Import

Each module version includes a workflow template file (`puq_docker_n8n_deploy.json`) for manual import into n8n.

n8n Workflow Configuration

1. Create Credentials

- **Basic Auth Credential** — For the Webhook API block (used by WHMCS to authenticate)
- **SSH Credential** — For Docker server access

2. Configure Template Parameters

In the **Parameters** block, modify the following:

Parameter	Description
`server_domain`	Must match the **hostname** in WHMCS server settings
`clients_dir`	Storage location for user Docker data
`mount_dir`	Container disk mount point (typically unchanged)

> **Important:** Do not modify `screen_left` and `screen_right` — these are technical parameters.

3. Docker Compose Configuration

The **deploy-docker-compose** element contains the Docker Compose configuration used for service creation, unlock, and update operations. This can be customized to match your requirements.

4. Nginx Configuration

The **nginx** element contains proxy server settings. Key sections:

- `main` — Primary server block
- `main_location` — Location rules for the main block

5. Bash Scripts

All bash scripts are generated within n8n and connected to the SSH element. They are fully controllable and return JSON or string responses.

Add server

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Add a new server to the system WHMCS

Navigate to: **System Settings → Servers → Add New Server**

- Enter the correct **Name** and **Hostname**

> **Attention: Important Information** The **hostname** field represents the actual domain of the server running Docker and must match the **server_domain** parameter in the **n8n workflow**. If they do not match, communication will not function correctly. Additionally, this domain must be configured so that all its subdomains resolve to the IP address of the server running Docker.

Module settings

In the **Server Details** section, select the **"PUQ Docker n8n"** module and enter the correct **username** and **password** for the **API endpoint** in the n8n workflow.

> Additionally, in the **Access Hash** field, insert the **URL of the API entry point** for the n8n workflow.

Product Configuration

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Add new product to WHMCS

Navigate to: **System Settings → Products/Services → Create a New Product**

In the **Module Settings** section, select the **"PUQ Docker n8n"** module.

Configuration parameters

Parameter	Description
License key	A pre-purchased license key for the PUQ Docker n8n module. For the module to work correctly, the key must be active
Disk space (GB)	Allocated disk space for the Docker container in GB
CPU	CPU cores allocated for the Docker container (e.g., 0.1, 1, 2)
RAM (GB)	RAM allocated to the Docker container in GB (e.g., 0.1, 1, 2)
Main domain	The primary domain for the web interface of the application. If not set, the main domain will be taken from the **hostname** parameter in the server settings
Subdomain	A personal subdomain assigned to each service. If left empty or if the subdomain is already taken, it will be automatically generated
Link to instruction	URL to a guide that will be displayed in the client panel if provided

Parameter	Description
Notification at %	The percentage threshold for disk space usage that triggers a notification to the client. Set 0 to disable
Notification email template	The email template for the notification that will be sent when the threshold is reached

Supported Macros for Subdomain

Macro	Description
`{user_id}`	Client ID
`{service_id}`	Service ID
`{random_digit_x}`	Random number (x defines the length)
`{random_letter_x}`	Random letter (x defines the length)
`{unixtime}`	Unix timestamp
`{year}`	Year
`{month}`	Month
`{day}`	Day
`{hour}`	Hour
`{minute}`	Minute
`{second}`	Second

Default subdomain template: `{user_id}-{service_id}-{second}`

License key: XXXXXX-XXXXXX-XXXXXX-XXXXXX-XXXXXX

success: 2027-04-04T20:28:37+02:00

Docker

Disk space (GB)

1

Allocated disk space in GB. Example: 1

CPU

1

CPU cores allocation. Example: 0.1

RAM (GB)

1

RAM allocation in GB. Example: 0.1

Client Area

Link to instruction

https://puq.info

A link to the instruction will be reflected in the client area.

Domain

Main domain

The main domain to which the container subdomain will be added. If not filled in, the server domain will be used.

Subdomain

{user_id}-{service_id}

Subdomain template using macros.

Base macros:

`{user_id}` – User ID

`{service_id}` – Service ID

Random macros:

`{random_digit_x}` – Random digits, where `x` is length

`{random_letter_x}` – Random letters (a–z), where `x` is length

Date & time macros:

`{unixtime}`, `{year}`, `{month}`, `{day}`, `{hour}`, `{minute}`, `{second}`

Example:

`{user_id}-{service_id}`

Notifications

Notify at %

95

Threshold to notify the user about low disk space

Email template

None

Email template used for low disk space notifications

Metric Billing

Docker n8n module **WHMCS**

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Overview

The Docker n8n WHMCS module supports metric billing through the standard WHMCS usage-based billing mechanism.

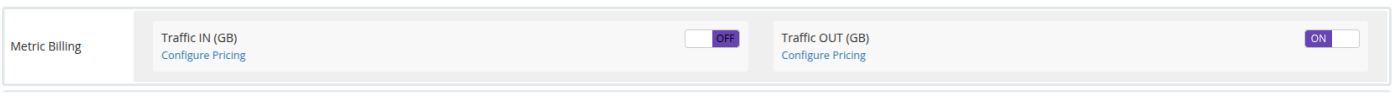
Available Metrics

Metric	Description
Traffic IN (GB)	Incoming network traffic in gigabytes
Traffic OUT (GB)	Outgoing network traffic in gigabytes

Configuration

To set up metric billing, follow the standard WHMCS usage-based billing configuration:

https://docs.whmcs.com/products/configuration-options/usage-billing/



Email Template — Welcome Email

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Template Details

Parameter	Value
Email Type	Product/service
Unique Name	`puqDockerN8N Welcome Email`

Subject

```
n8n Order Information
```

Body

```
Dear {$client_name},

Thank you for your order!

Product/Service: {$service_product_name}
Payment Method: {$service_payment_method}
```

```
Amount: {$service_recurring_amount}
Billing Cycle: {$service_billing_cycle}
Next Due Date: {$service_next_due_date}

The installation and setup of your n8n instance is in progress.
Within the next 4 minutes, you will be able to use your n8n instance.

Your n8n instance: https://{$service_domain}/

Note: When you log in for the first time, you will need to create an account.

Thank you for choosing our services!

{$signature}
```

Email Template — Update Email

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Template Details

Parameter	Value
Email Type	Product/service
Unique Name	`puqDockerN8N Update Email`

Subject

```
n8n Update Information
```

Body

```
Dear {$client_name},

Your instance is currently being updated.
You will be able to use your n8n server again within 3 minutes.

Your n8n instance: https://{$service_domain}/
```

```
Thank you for choosing our services!


{$signature}
```

Email Template — Disk Limit Notification

Docker n8n module **WHMCS**

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Template Details

Parameter	Value
Email Type	Product/service
Unique Name	`puqDockerN8N Notification disk limit`

Subject

```
Disk space usage {$disk_used_percentage}%
```

Body

```
Dear {$client_name},

We would like to inform you that your n8n service ({$service_product_name})
has reached a high disk space usage level.

Service domain: {$service_domain}
```

```
Total disk space: {$disk_total}
Used disk space: {$disk_used}
Usage percentage: {$disk_used_percentage}%

We recommend reviewing your data or upgrading your plan to ensure
uninterrupted service.

Thank you for choosing our services!

{$signature}
```

Client Area

Overview of client-facing features available in the Docker n8n module, including the home screen, IP access control, reinstall functionality, and metric statistics.

Client Area

Home Screen

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Overview

The client area home screen provides quick access to the n8n instance, real-time monitoring of resource usage, and essential management functions in one place.

Main Sections

Navigation Block

- **User Manual** — Link to the documentation (if configured in product settings)

Connection Details

- **n8n Web Interface** — Direct link to the n8n instance with a copy button
- **Change Owner Password** — Button to change the n8n owner password via modal dialog

Resource Usage (Container Status)

Real-time monitoring of container resources:

- **Status** — Current container state (Running, Stopped, Paused, etc.)
- **CPU Usage** — CPU allocation and current load with progress bar
- **Memory Usage** — RAM consumption with progress bar

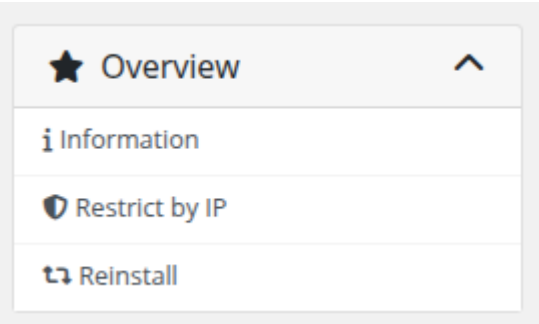
- **Disk Usage** — Storage usage with progress bar
- **Refresh** — Button to reload container statistics

Application Information

- **Version** — Installed n8n version
- **Users** — List of active users in the n8n instance

Sidebar Navigation

- **Information** — Main dashboard (home screen)
- **Restrict by IP** — IP access control configuration
- **Reinstall** — Full service reinstallation



Domain | Metrics

User manual

n8n

Go to n8n: https://1-5507.d01-test.uuq.pl/

Change Owner Password

Container

Status: Running

CPU usage: 1 CPU — 100%

Memory usage: 187MiB / 1GiB — 18% / 82%

Disk usage: 548K / 974M — 99%

App

Version: 1.110.1

Users: it@puq.pl

Client Area

IP Access Control

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Overview

The IP Access Control page allows clients to restrict access to their n8n instance by specifying allowed IP addresses.

Configuration

- Navigate to **Restrict by IP** in the sidebar
- Enter approved IP addresses in the text area (one IP per line)
- Supports both IPv4 and IPv6 addresses
- Click **Save** to apply changes

Important

- If no IP addresses are configured, access is open to all IP addresses
- Invalid IP addresses are automatically filtered out
- Duplicate entries are removed

IP Access Control

If IP is not specified, access is not limited

WEB: https://1-5507.d01-test.uuq.pl

Enter allowed IPs, one per line

Save

Client Area

Reinstall

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Overview

The reinstall feature allows clients to fully reinstall their n8n application. This operation causes **complete data loss**.

Protection Against Accidental Reinstallation

To prevent accidental reinstallation, the client must:

1. Navigate to **Reinstall** in the sidebar
2. Type the word **REINSTALL** (in capital letters) in the verification field
3. Click the **Reinstall** button
4. Confirm the action in the dialog prompt

> **Warning:** Reinstalling the service will completely remove all data. This action cannot be undone.

Reinstall

You are in the area of reinstalling service.

You must be aware of what you will do here.

Reinstalling the service, completely remove all data.

To protect against accidental reinstallation.

Please enter the word: **REINSTALL** In capital letters.

REINSTALL

Reinstall

Client Area

Metrics

Docker n8n module **WHMCS**

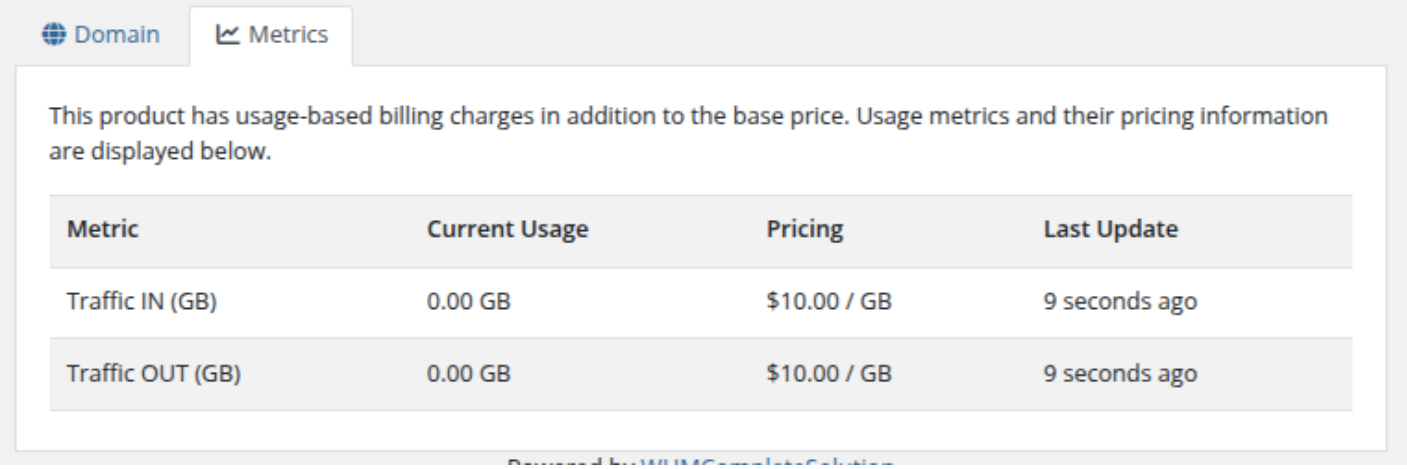
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Overview

If you use metrics for application traffic billing, the **Metrics** tab will display the usage statistics for the metrics.

Available Metrics

Metric	Description
Traffic IN (GB)	Incoming network traffic in gigabytes
Traffic OUT (GB)	Outgoing network traffic in gigabytes



Admin Area

Overview of administrative tools for managing Docker n8n services, including container management, resource monitoring, and application information.

Product Information

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Overview

The admin panel provides comprehensive tools for managing Docker n8n services, structured in two main sections with control buttons.

Module Commands

Command	Description
Create	Provision a new n8n container
Suspend	Suspend the service
Unsuspend	Reactivate a suspended service
Terminate	Remove the service completely
Change Package	Modify resource allocation
Container Start	Start the Docker container
Container Stop	Stop the Docker container
Mount Disk	Attach the container's disk to the host system
Unmount Disk	Detach the container's disk from the host system

---

API Connection Status

Displays the connection status to the n8n workflow API:

- **Green** — API Connection OK
- **Red** — API connection problem with error details

Container Status & Resource Monitoring

Real-time monitoring of the Docker container:

Metric	Description
Status	Container state (Running, Exited, Paused, etc.)
Name	Container name and ID
CPU Usage	Processor load with progress bar
Memory Usage	RAM consumption
Disk IO	Disk read/write statistics
Disk Mounted	Mounted disk usage (used/total)
Disk File	Disk image file size
Network IO	Network traffic statistics

Additional controls:

- **Refresh** — Reload container statistics
- **Log** — View container logs for troubleshooting

Application Information

Field	Description
Version	Installed n8n version

Field	Description
Users	List of users with system access

Metric Statistics

If metric billing is enabled, the admin area displays:

Metric	Description
Traffic IN (GB)	Incoming network traffic
Traffic OUT (GB)	Outgoing network traffic

