PUQ Mautic
Image not found or type unknown

Installation and configuration guide

- Basic concepts and requirements
- WHMCS setup (install/update)
- Preparing Docker Server
- Setting up n8n workflow
- Add server
- Product Configuration
- Metric Billing
- Email Template (puqDockerN8N Welcome Email)
- Email Template (puqDockerN8N Update Email)
- Email Template (puqDockerN8N Notification disk limit)

Basic concepts and requirements

Docker n8n module **WHMCS**

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> 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

The **WHMCS Docker n8n module** is part of the **WHMCS Docker module series** developed by **PUQcloud**. This module enables service providers to offer **n8n Docker containers** as a service to their clients, allowing for seamless automation and integration.

The system consists of three core components:

WHMCS Module

The **core component**, installed in WHMCS, manages service provisioning and automation from the WHMCS side.

Debian 12 Server

A server running **Debian 12** with the following pre-installed:
Docker – For container management
SQLite3 – For lightweight database operations
Apache2-utils – For authentication and performance enhancements

We have prepared instructions for installing and configuring Docker

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

□□ n8n Server

This server facilitates communication between the WHMCS module and the Docker server, ensuring smooth workflow execution.

To explore n8n’s full potential, visit the **official n8n website** for documentation, tutorials, and community support.

Key Features & Concepts

⚙ Workflow Automation

n8n provides a **graphical workflow builder**, allowing users to automate various tasks, such as:
✔ **Sending notifications**
✔ **Configuring firewalls** on external routers
✔ **Managing DNS settings**
✔ **Custom automation processes** tailored to specific needs

□□ Flexibility & Customization

The module offers **personalized settings** and supports **elastic automation**, giving clients full control over their n8n workflows.

WHMCS setup (install/update)

Docker n8n module **WHMCS**

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> **Module is coded ionCube v13**

Supported php version:

- php 7.4 WHMCS 8.11.0 -
- php 8.1 WHMCS 8.11.0 +
- php 8.2 WHMCS 8.11.0 +

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

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
```

PHP 8.1

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Docker-n8n/php81/PUQ_WHMCS-Docker-n8n-latest.zip
```

PHP 7.4

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Docker-n8n/php74/PUQ_WHMCS-Docker-n8n-latest.zip
```

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

2. Unzip the archive with the module.

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

3. Copy and Replace "puqDockerN8N" from "PUQ_WHMCS-Docker-n8n" to "WHMCS_WEB_DIR/modules/servers/"

Preparing Docker Server

Docker n8n module **WHMCS**

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To install the Docker server for this module, please follow the instructions at the following link:

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

Setting up n8n workflow

Docker n8n module **WHMCS**

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Overview

The **Docker n8n WHMCS module** uses a specially designed workflow for **n8n** to automate deployment processes. The workflow provides an API interface for the module, receives specific commands, and connects via SSH to a server with Docker installed to perform predefined actions.

Prerequisites

- You must have your own **n8n** server.
- Alternatively, you can use the official **n8n** cloud installations available at: n8n Official Site

Installation Steps

Install the Required Workflow on n8n

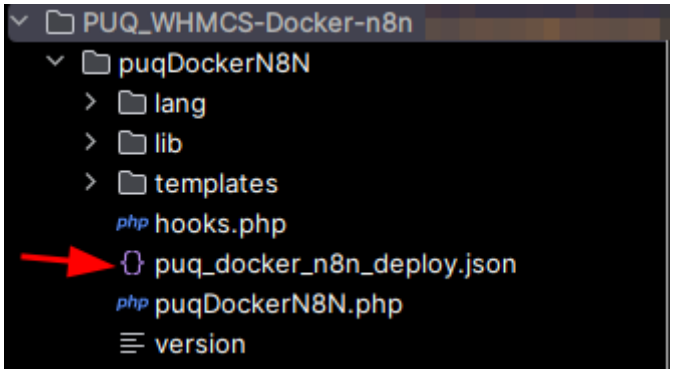
You have two options:

Option 1: Use the Latest Version from the n8n Marketplace

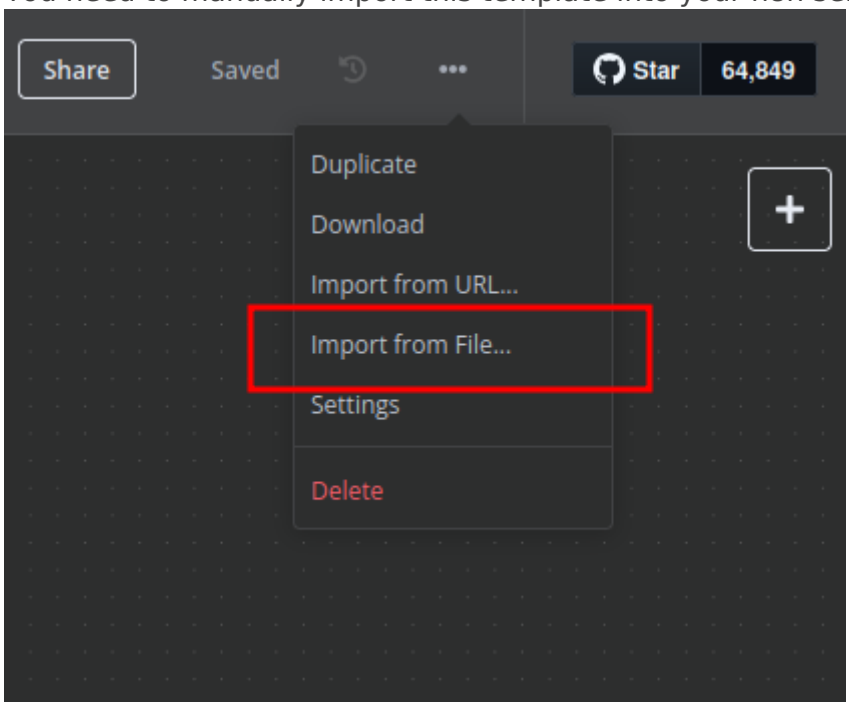
- The latest workflow templates for our modules are available on the official n8n marketplace.
- Visit our profile to access all available templates: PUQcloud on n8n

Option 2: Manual Installation

- Each module version comes with a workflow template file.



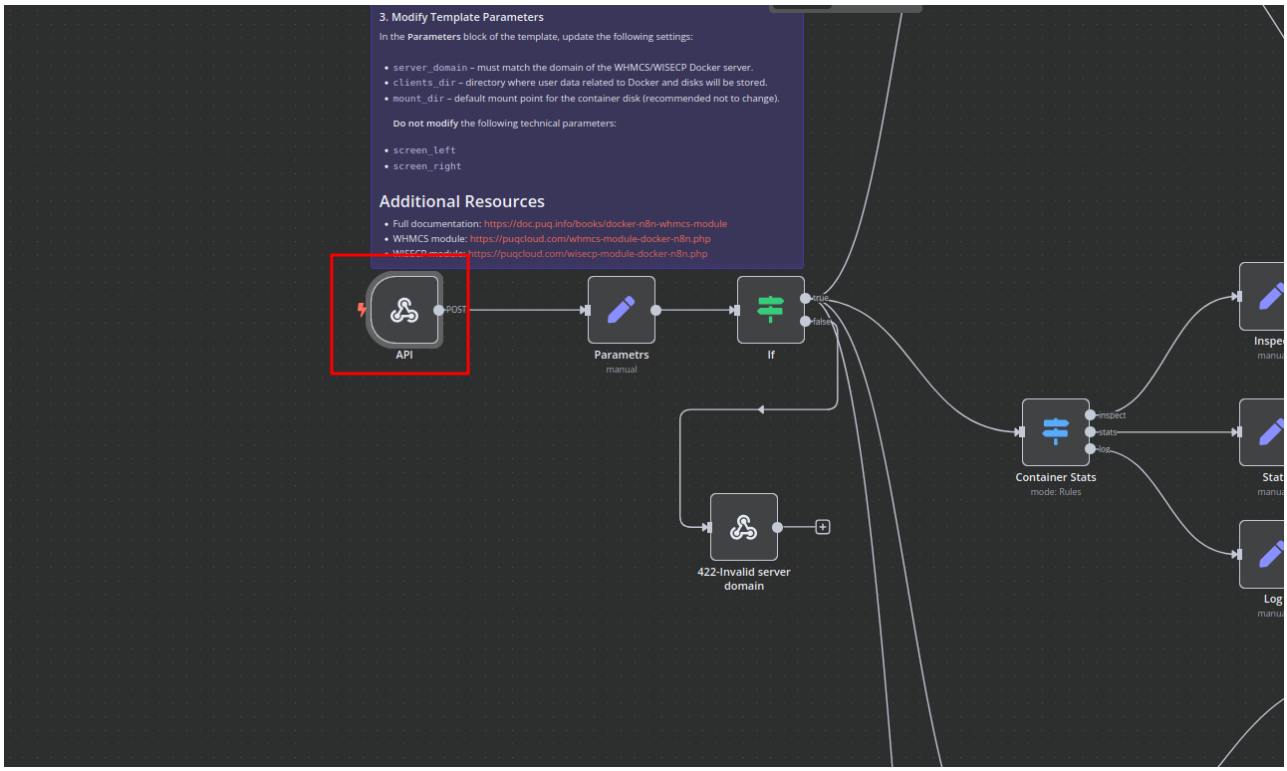
- You need to manually import this template into your n8n server.

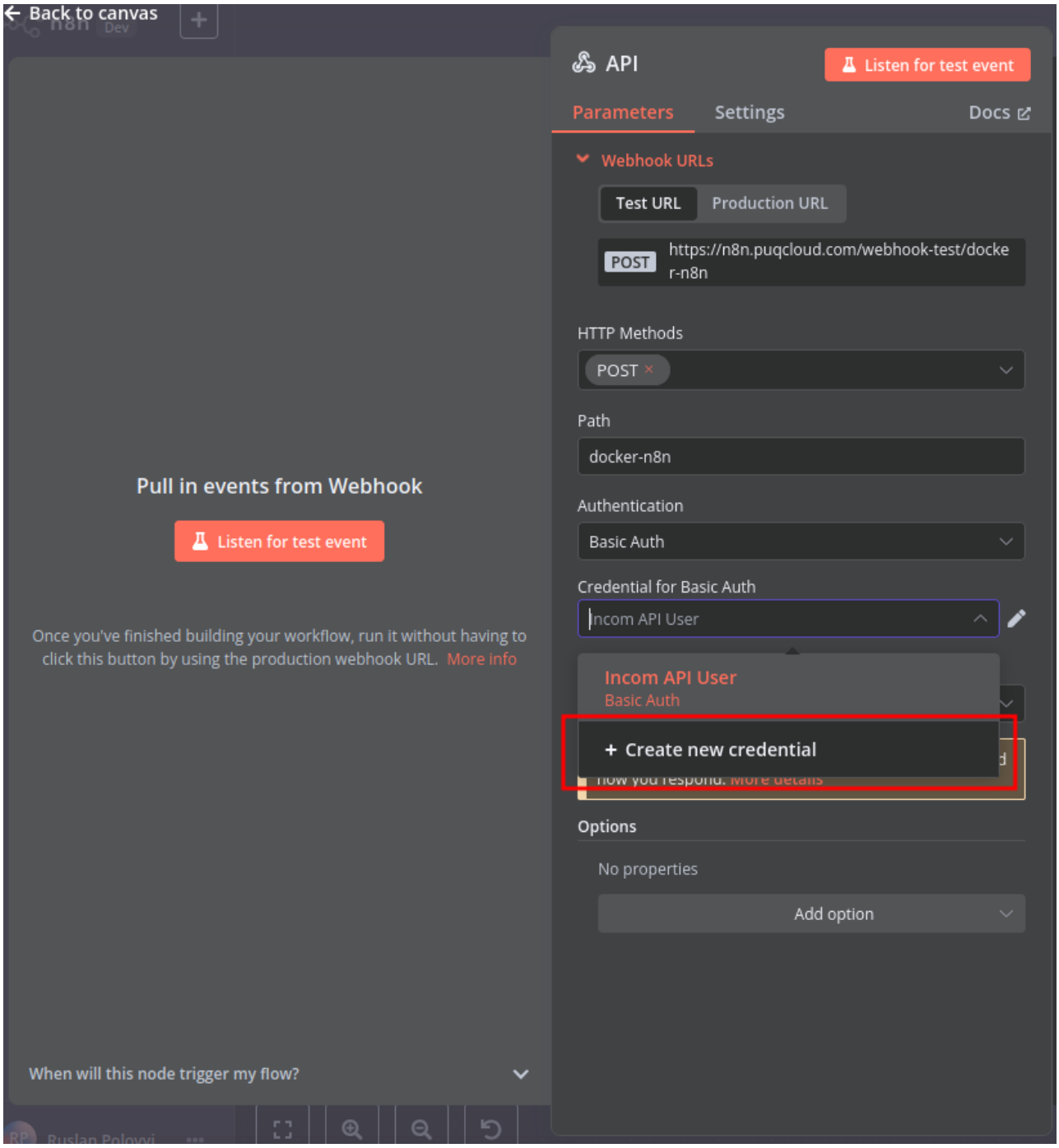


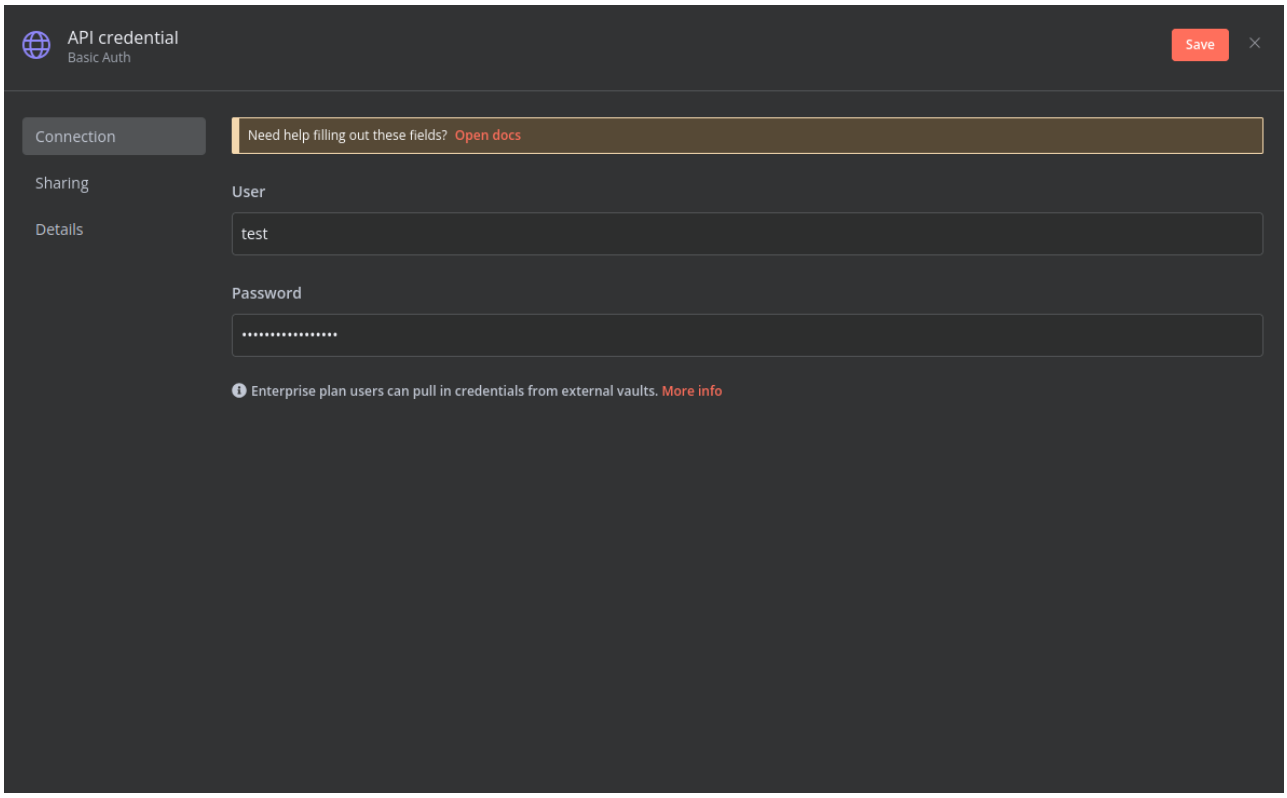
n8n Workflow API Backend Setup for WHMCS/WISECP

Configure API Webhook and SSH Access

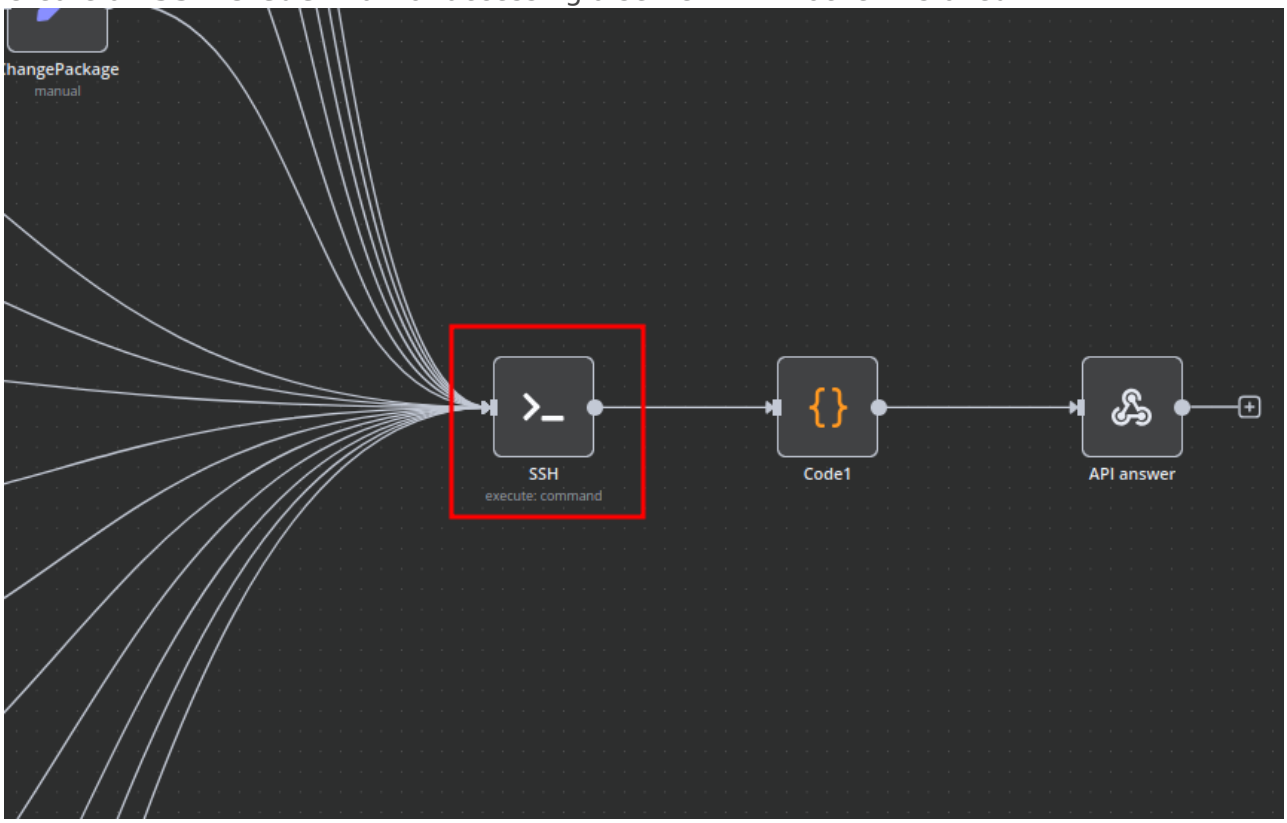
- Create a **Basic Auth Credential** for the Webhook API Block in n8n.

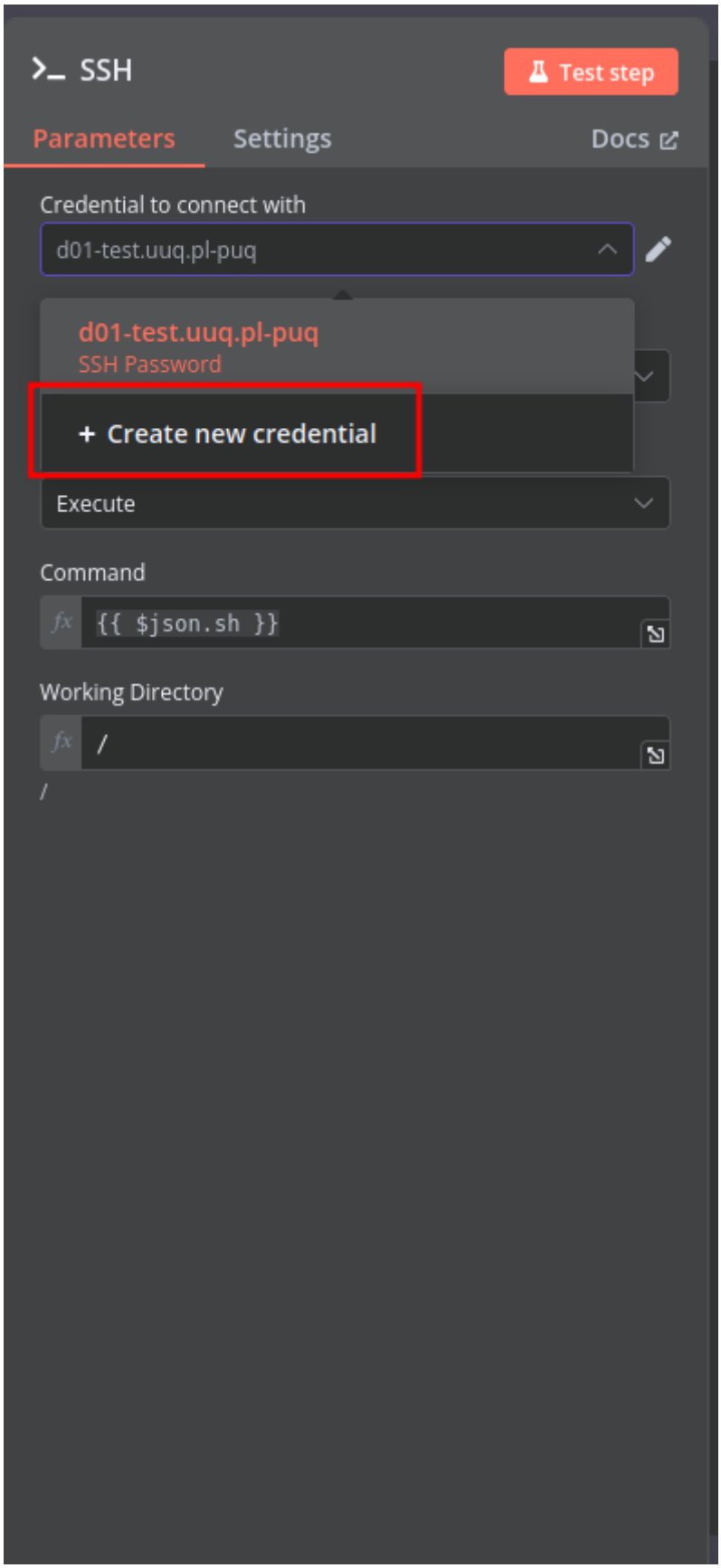

3. Modify Template Parameters
In the Parameters block of the template, update the following settings:
server_domain – must match the domain of the WHMCS/WISECP Docker server.
clients_dir – directory where user data related to Docker and disks will be stored.
mount_dir – default mount point for the container disk (recommended not to change).
Do not modify the following technical parameters:
screen_left
screen_right
Additional Resources
Full documentation: https://doc.puq.info/books/docker-n8n-whmcs-module
WHMCS module: https://puqcloud.com/whmcs-module-docker-n8n.php
WISECP module: https://puqcloud.com/wisecp-module-docker-n8n.php
POST
API
Parametrs
manual
If
true
false
Container Stats
mode: Rules
inspect
stats
log
422-Invalid server domain

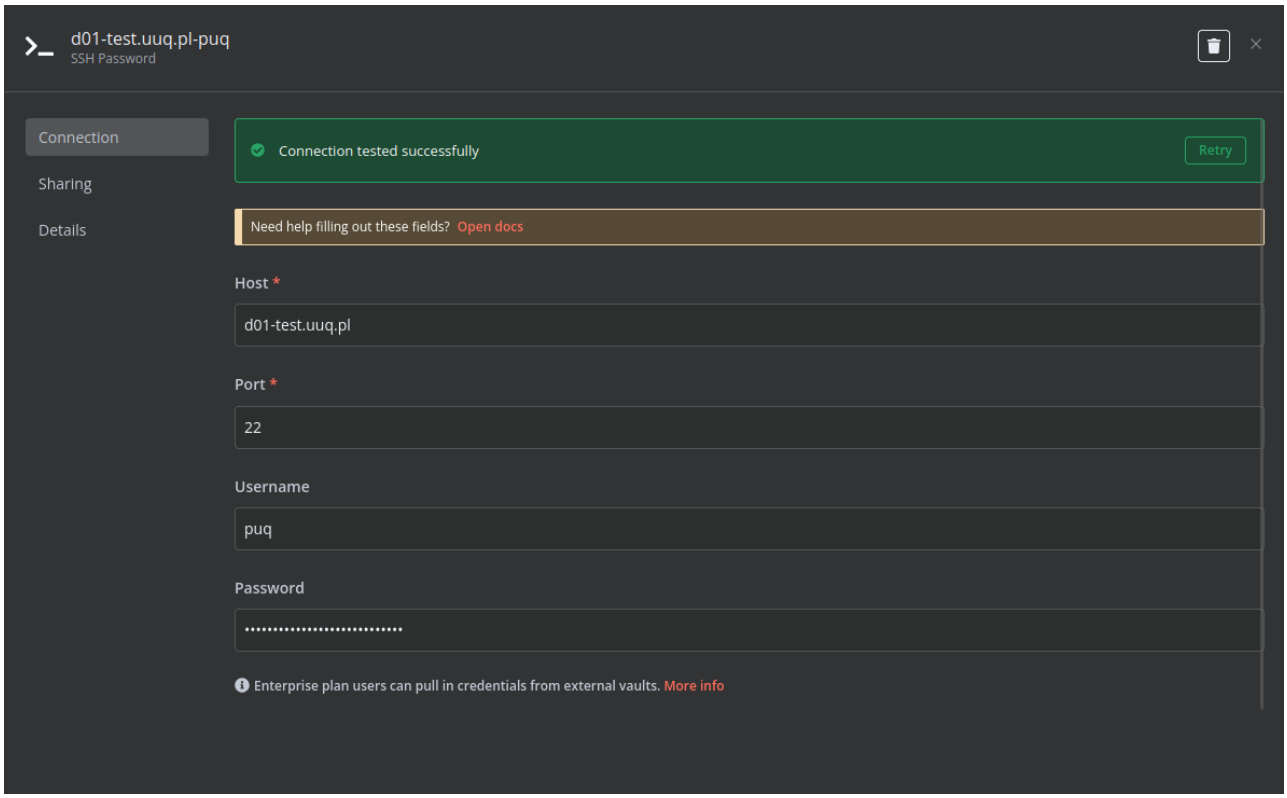

Back to canvas
API
Listen for test event
Parameters
Settings
Docs
Webhook URLs
Test URL
Production URL
POST
https://n8n.puqcloud.com/webhook-test/docke
r-n8n
HTTP Methods
POST
Path
docker-n8n
Authentication
Basic Auth
Credential for Basic Auth
Incom API User
Incom API User
Basic Auth
+ Create new credential
Options
No properties
Add option
Pull in events from Webhook
Listen for test event
Once you've finished building your workflow, run it without having to click this button by using the production webhook URL. More info
When will this node trigger my flow?



- Create an **SSH Credential** for accessing a server with Docker installed.

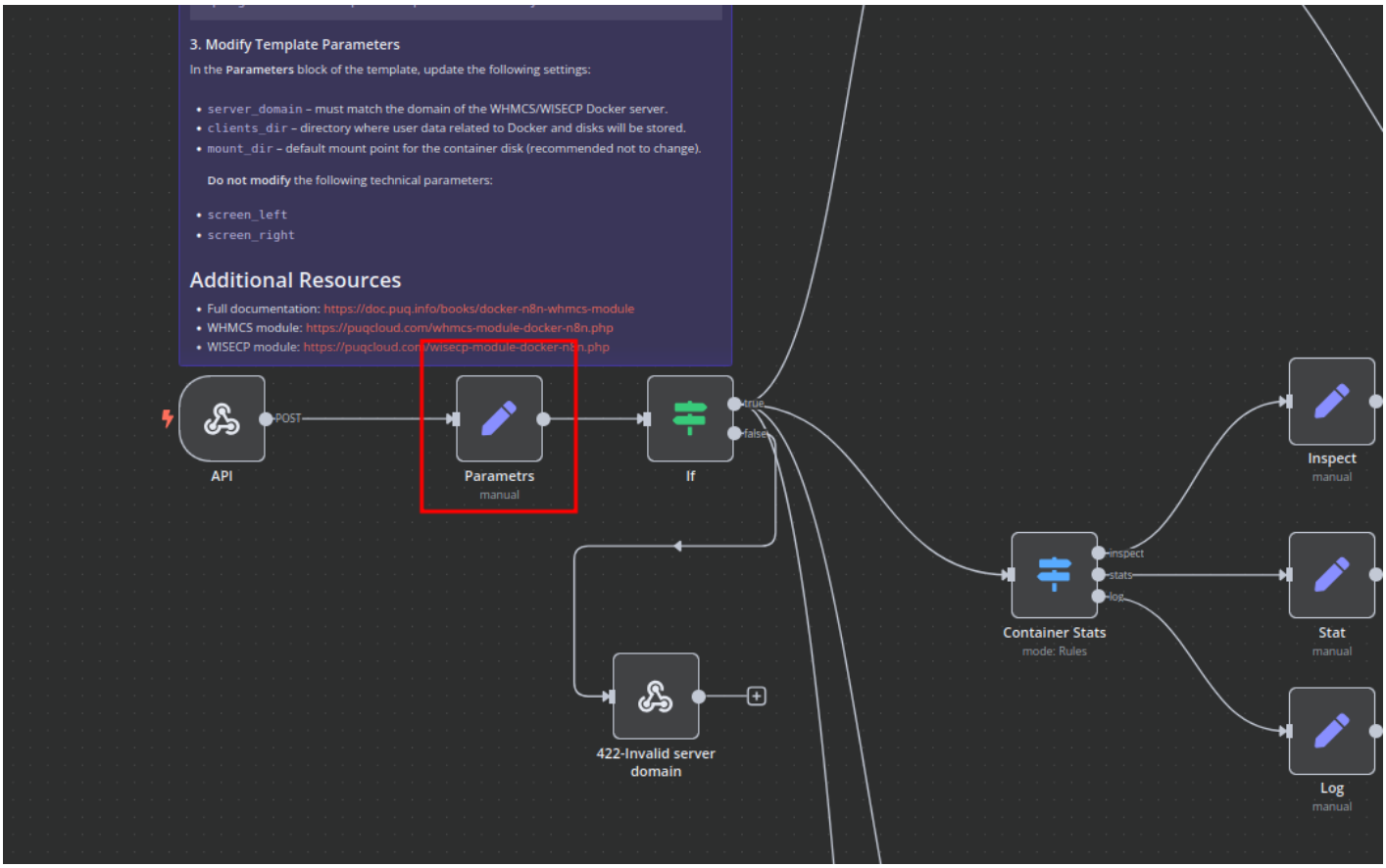


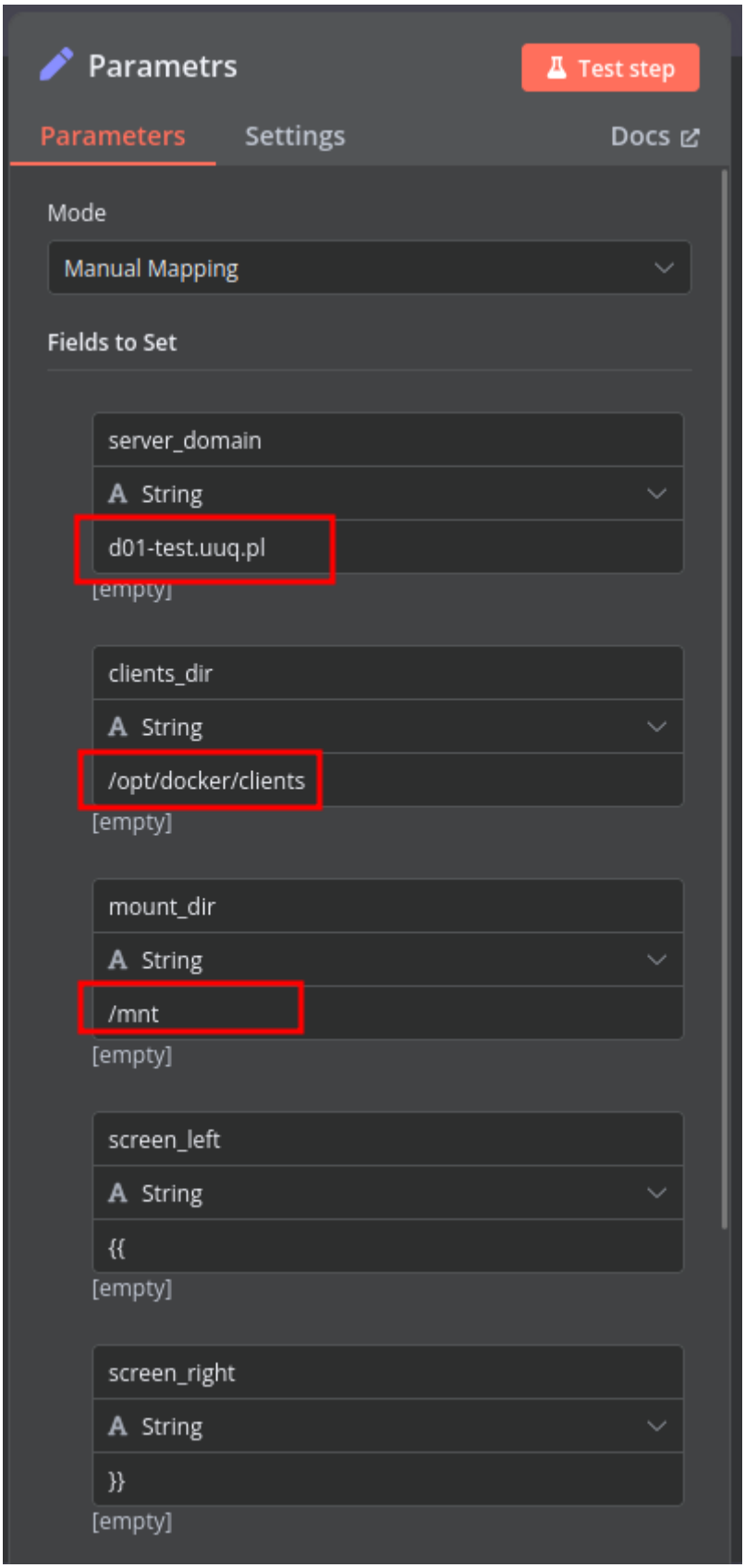

SSH
Test step
Parameters
Settings
Docs
Credential to connect with
d01-test.uuq.pl-puq
d01-test.uuq.pl-puq
SSH Password
+ Create new credential
Execute
Command
{{ $json.sh }}
Working Directory
/
/



Modify Template Parameters

In the **Parameters** block of the template, update the following settings:


3. Modify Template Parameters
In the Parameters block of the template, update the following settings:
server_domain – must match the domain of the WHMCS/WISECP Docker server.
clients_dir – directory where user data related to Docker and disks will be stored.
mount_dir – default mount point for the container disk (recommended not to change).
Do not modify the following technical parameters:
screen_left
screen_right
Additional Resources
Full documentation: https://doc.puq.info/books/docker-n8n-whmcs-module
WHMCS module: https://puqcloud.com/whmcs-module-docker-n8n.php
WISECP module: https://puqcloud.com/wisecp-module-docker-n8n.php
POST
API
Parametrs
manual
If
true
false
422-Invalid server domain
Container Stats
mode: Rules
inspect
stats
log
Inspect
manual
Stat
manual
Log
manual



- `server_domain` – Must match the domain of the WHMCS/WISECP Docker server.
- `clients_dir` – Directory where user data related to Docker and disks will be stored.
- `mount_dir` – Default mount point for the container disk (recommended not to change).

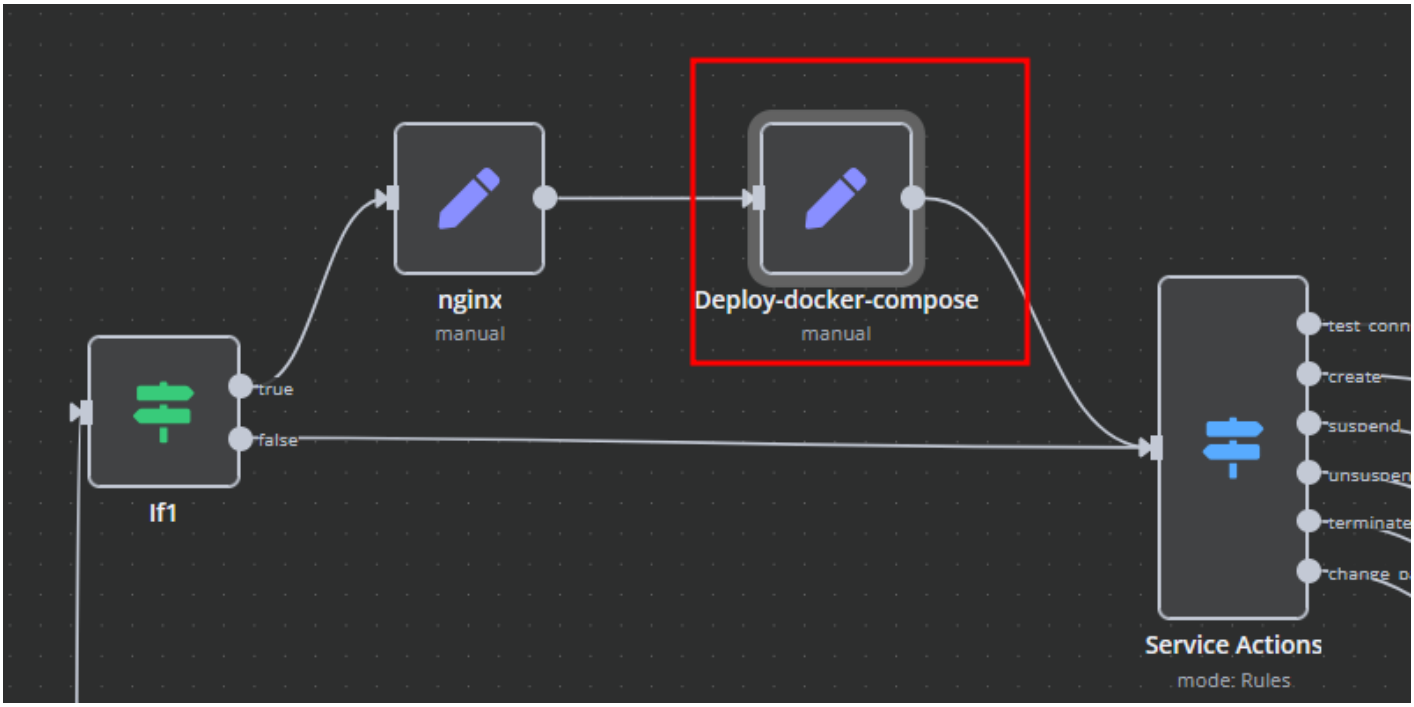
Do not modify the following technical parameters:

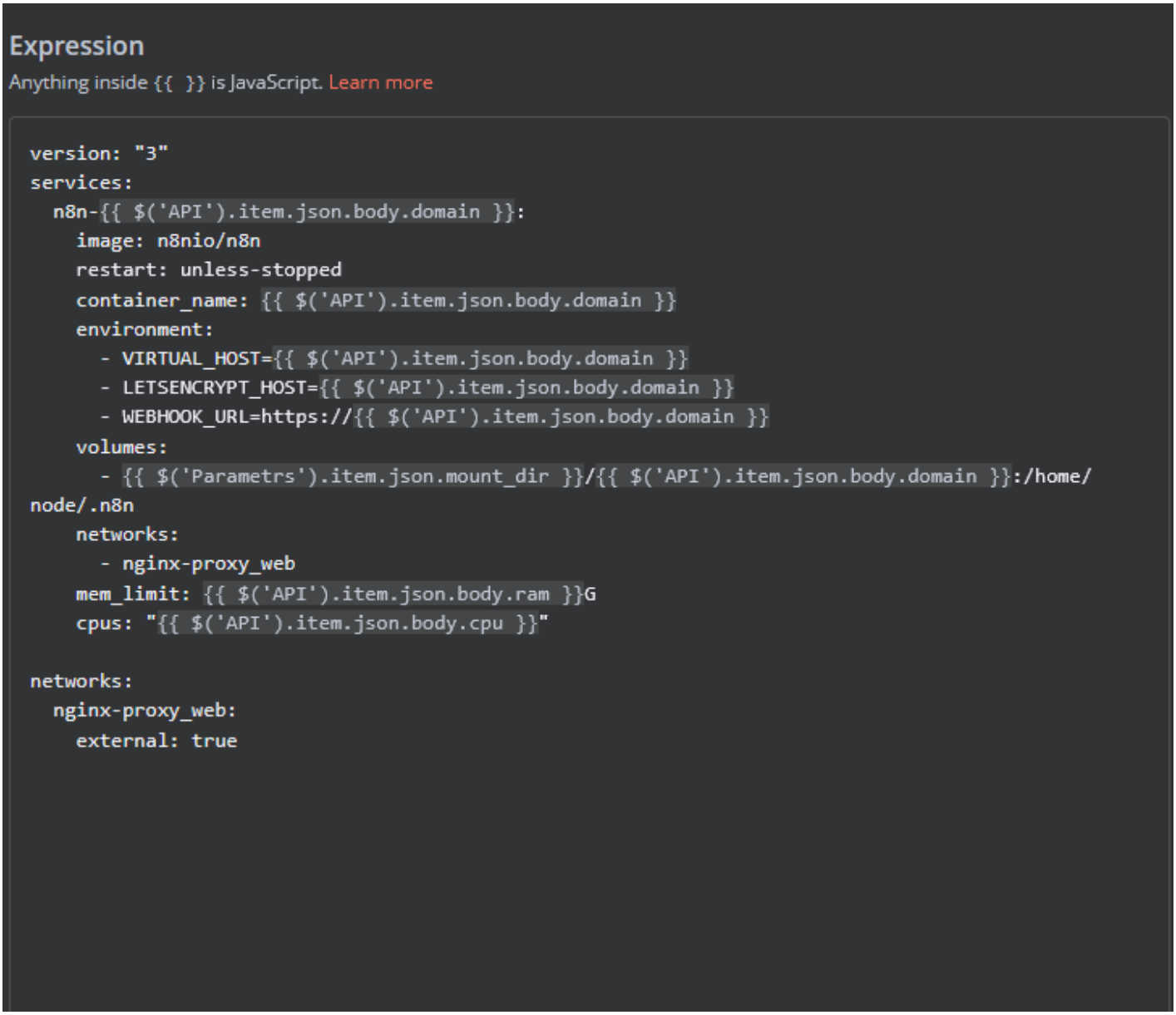
- `screen_left`
- `screen_right`

Deploy-docker-compose

In the **Deploy-docker-compose** element, you have the ability to modify the Docker Compose configuration, which will be generated in the following scenarios:

- When the service is created
- When the service is unlocked
- When the service is updated

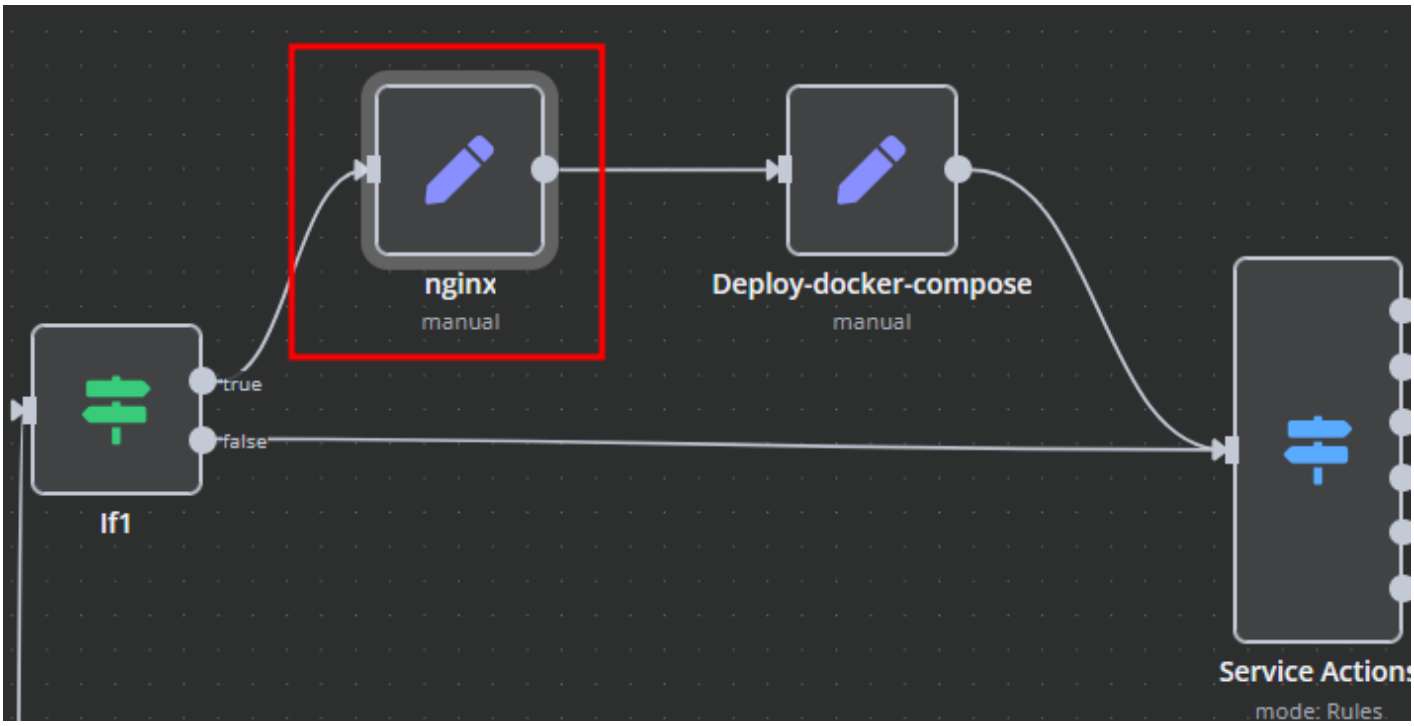


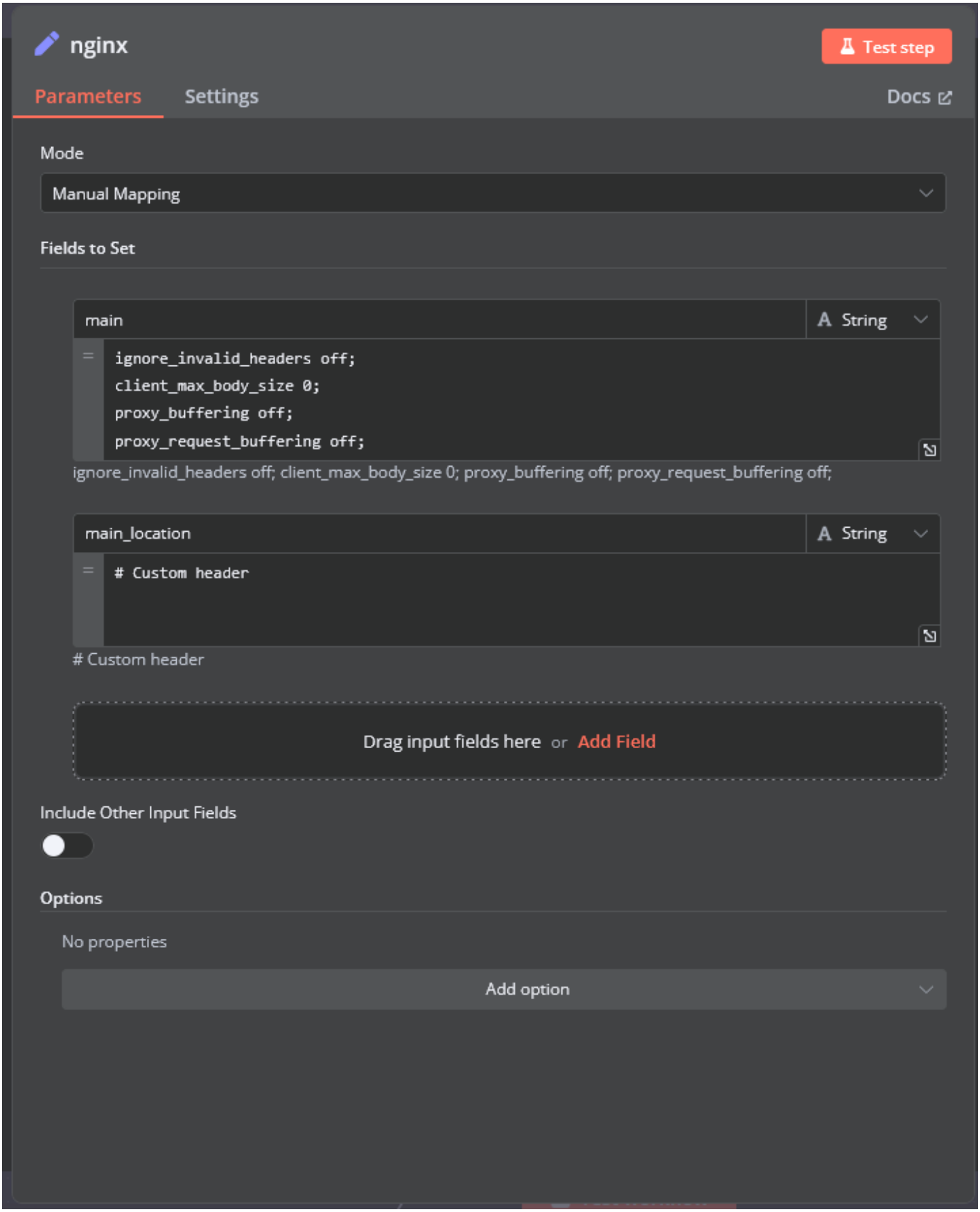


nginx

In the **nginx** element, you can modify the configuration parameters of the web interface proxy server.

- The **main** section allows you to add custom parameters to the **server** block in the proxy server configuration file.
- The **main_location** section contains settings that will be added to the **location /** block of the proxy server configuration. Here, you can define custom headers and other parameters specific to the root location.


nginx
manual
Deploy-docker-compose
manual
true
false
If1
Service Action
mode: Rules

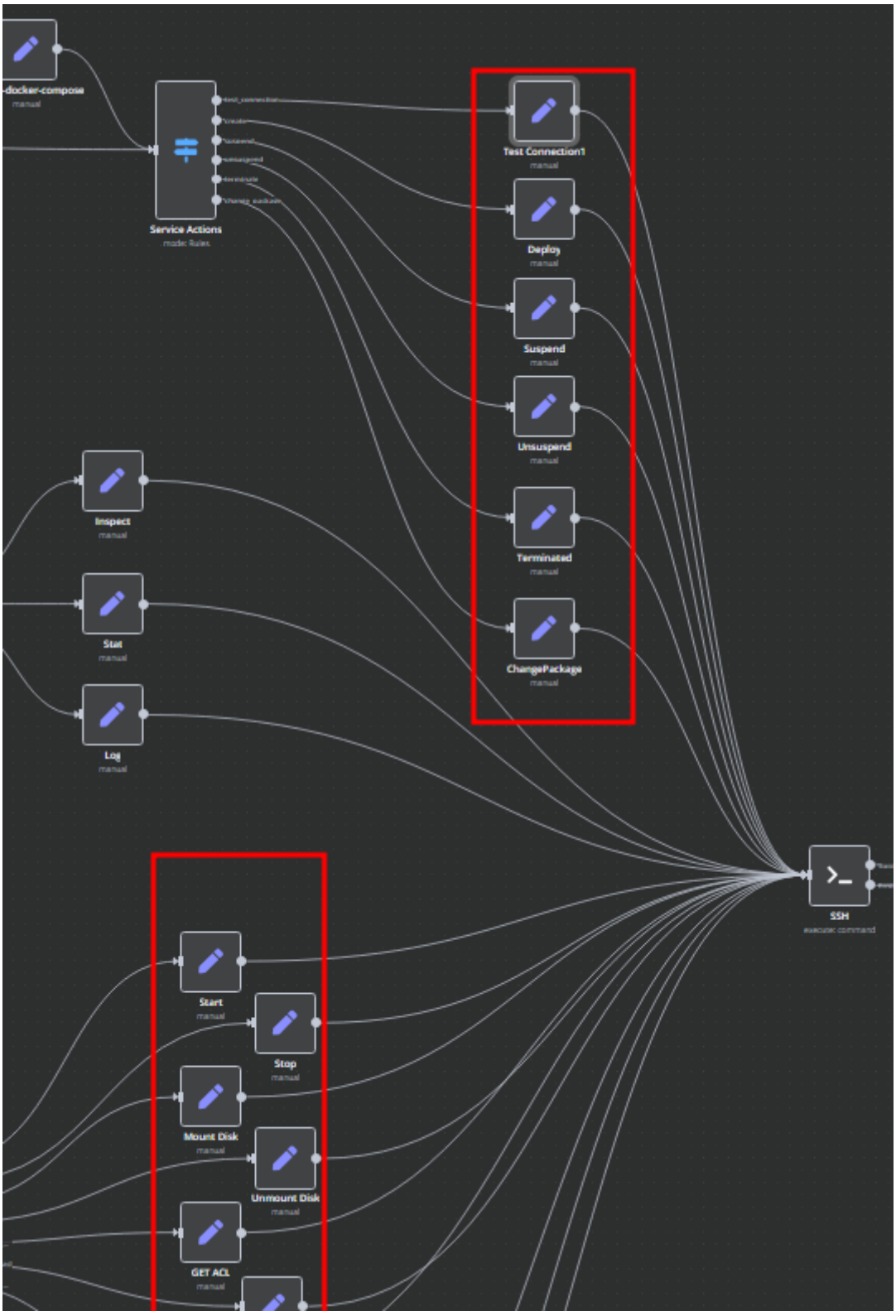


Bash Scripts

Management of Docker containers and all related procedures on the server is carried out by

executing Bash scripts generated in **n8n**. These scripts return either a JSON response or a string.

- All scripts are located in elements directly connected to the **SSH** element.
- You have full control over any script and can modify or execute it as needed.



Add server

Docker n8n module **WHMCS**

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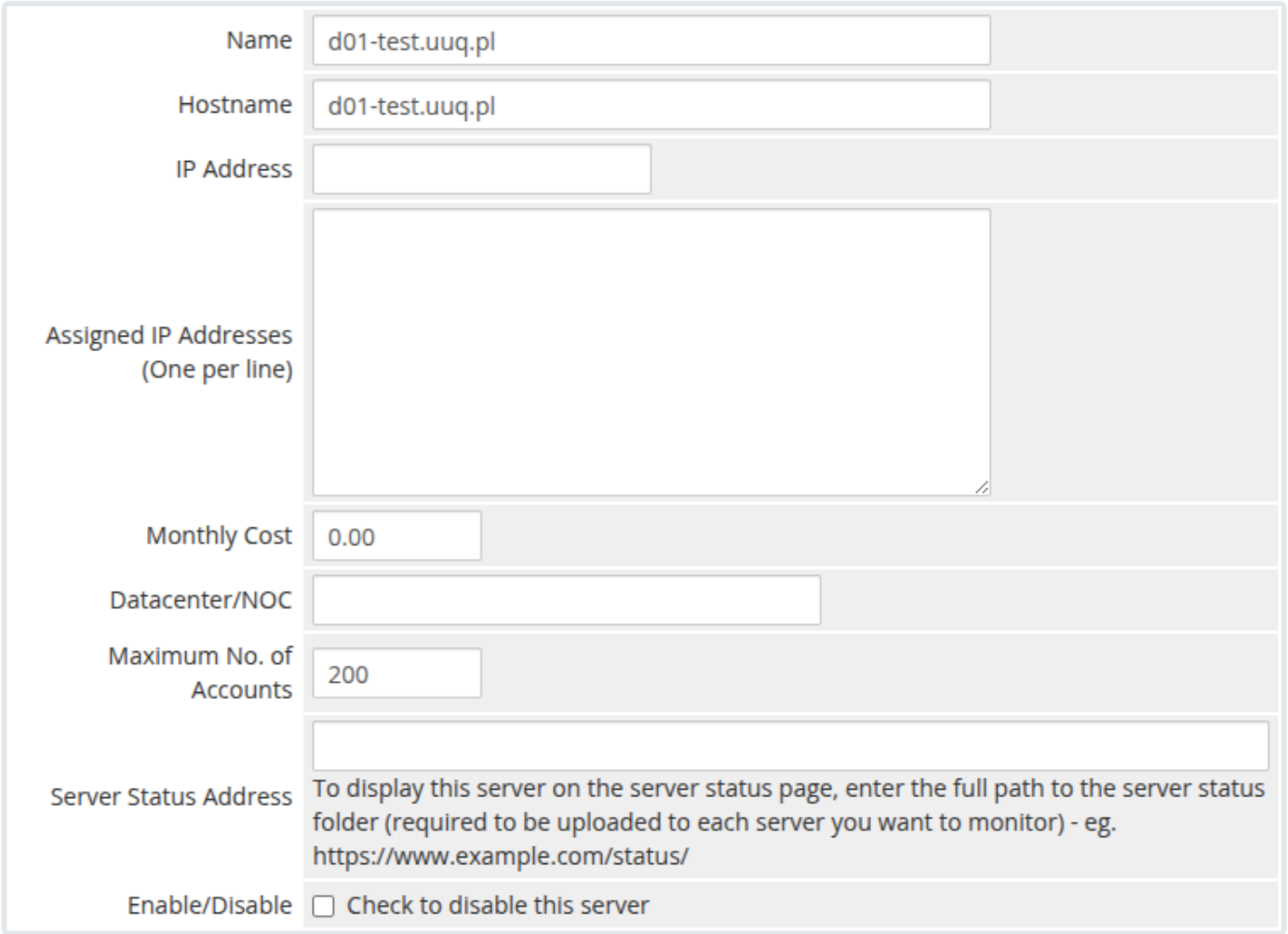
Add a new server to the system WHMCS.

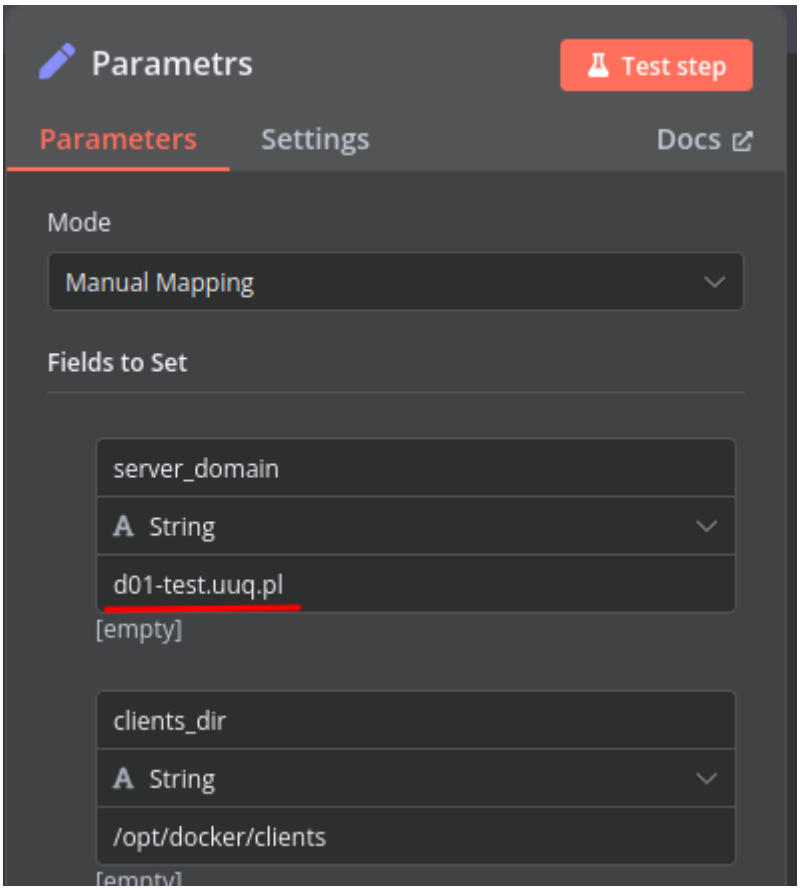
```
System Settings->Servers->Add New Server
```

- 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.

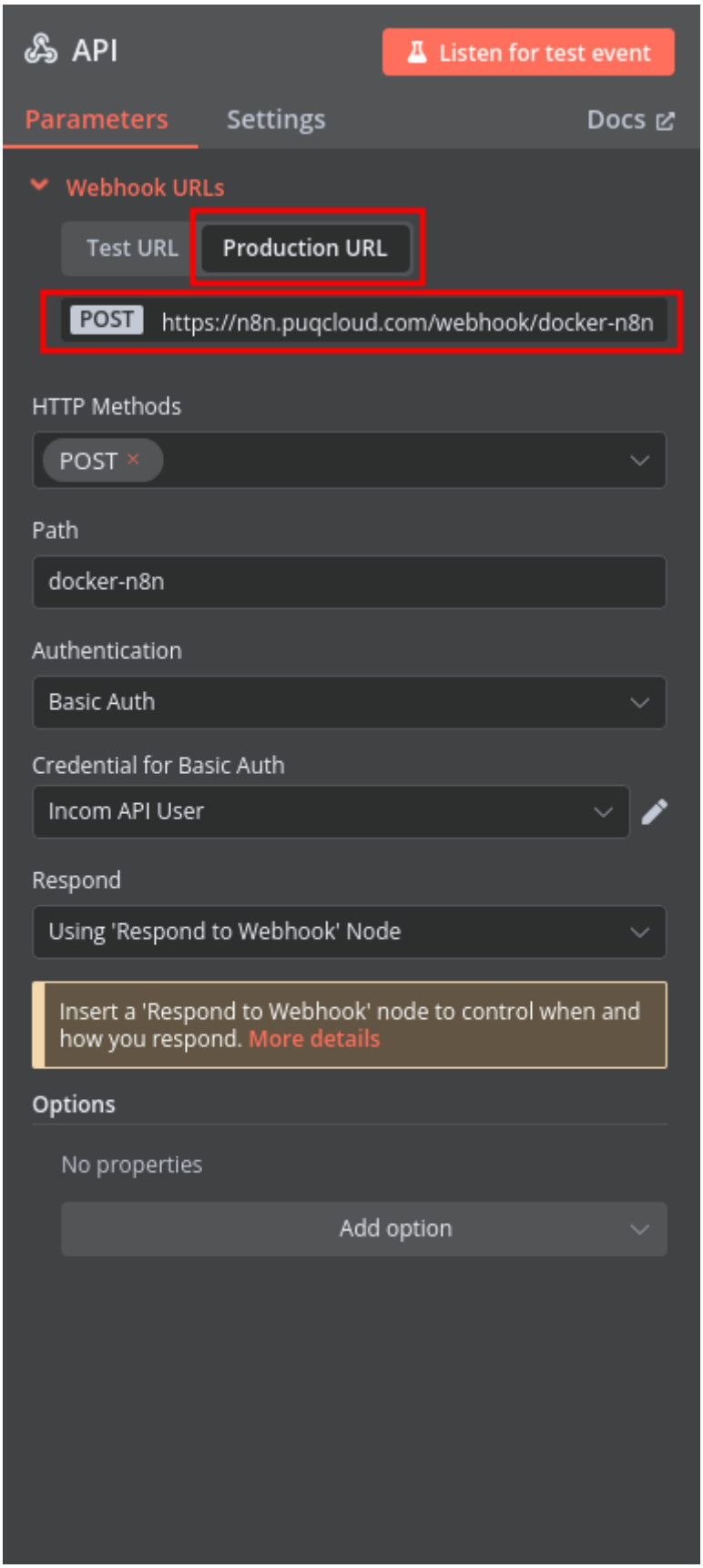


In the **Server Details** section, select the **"PUQ Docker n8n"** module and enter the correct **username** and **password** for the **API endpoint** in the n8n workflow.

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

Server Details

Module	PUQ Docker n8n [Test Connection]
	✔ Connection successful. Some values have been auto-filled.
Username	test
Password	••••
Access Hash	https://n8n.puqcloud.com/webhook/docker-n8n
Secure	☐ Check to use SSL Mode for Connections


API
Listen for test event
Parameters
Settings
Docs
Webhook URLs
Test URL
Production URL
POST
https://n8n.puqcloud.com/webhook/docker-n8n
HTTP Methods
POST
Path
docker-n8n
Authentication
Basic Auth
Credential for Basic Auth
Incom API User
Respond
Using 'Respond to Webhook' Node
Insert a 'Respond to Webhook' node to control when and how you respond. More details
Options
No properties
Add option

Product Configuration

Docker n8n module **WHMCS**

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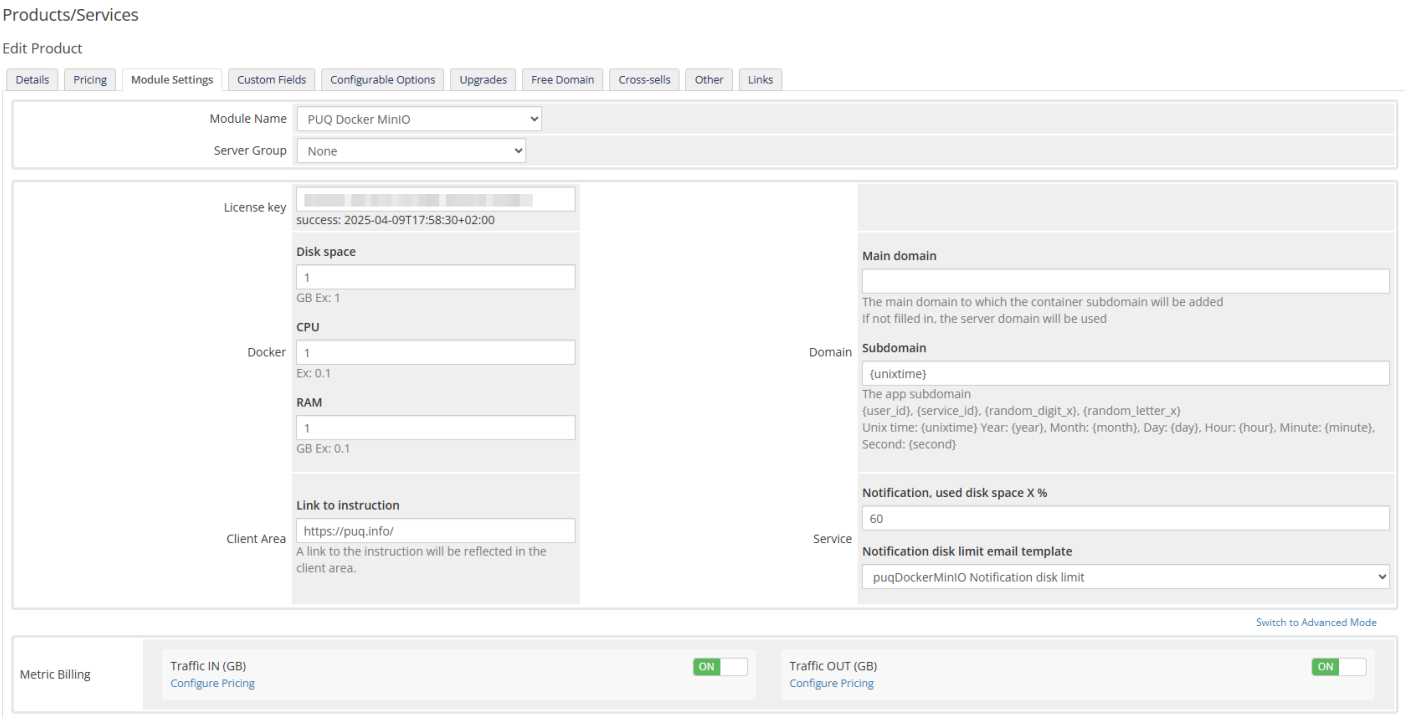
Add new product to WHMCS

```
System Settings->Products/Services->Create a New Product
```

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



- **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** – defines the allocated disk size for the Docker container.
- **CPU** – sets the CPU usage limit for the Docker container.
- **RAM** – specifies the amount of RAM allocated to the Docker container.
- **Link to instruction** – URL to a guide that will be displayed in the client panel if provided.
- **Main domain** – defines 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 in the format **{user_id}-{service_id}**.
-

Supported Macros for **App Subdomain**:

  - **{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}, {month}, {day}, {hour}, {minute}, {second}** – Date and time values
- **Notification, used disk space X %** – The percentage value that sets the threshold for the container's disk space usage will trigger a notification message to the client once the threshold is reached.
- **Notification disk limit email template** – The email template for the notification that will be sent when the threshold is reached.

Metric Billing

Docker n8n module **WHMCS**

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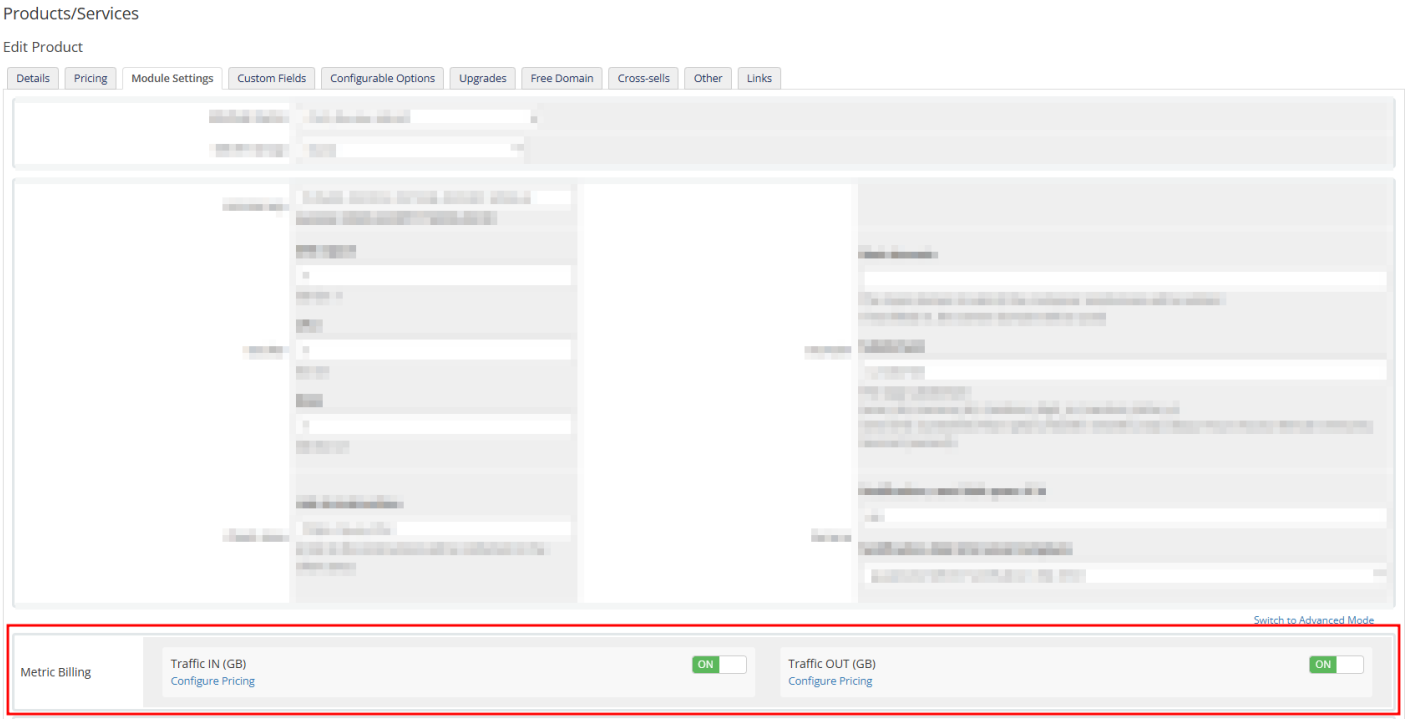
To bill certain metrics separately, you can use the standard WHMCS Metric Billing mechanism.

To configure it, you need to enable the required metrics and set the desired prices. Metrics work based on the standard WHMCS mechanism, the description of which can be found here:

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



Configure Pricing

Traffic IN (GB)

Metric Type: Monthly

Metric Unit: GigaBytes

Pricing

Scheme:

(•) Per Unit ⓘ ( ) Total Volume ⓘ ( ) Graduated ⓘ

Quantity Included

0.00

Price Per GB			
PLN	EUR	UAH	USD
1.00	1.00	1.00	1.00

Close Save

Email Template (puqDockerN8N Welcome Email)

Docker n8n module **WHMCS**

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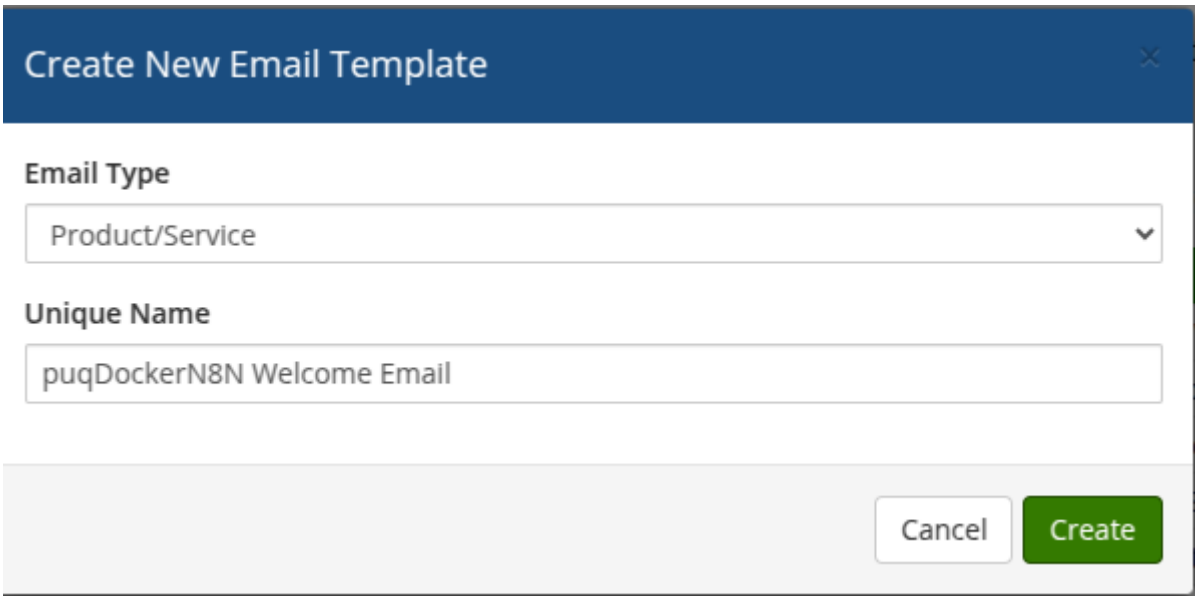
Create an email template for customer notifications.

```
System Settings->Email Templates->Create New Email Template
```

- **Email Type:** Product/service
- **Unique Name:** puqDockerN8N Welcome Email



Subject:

```
n8n Order Information
```

Body:

```
Dear {$client_name},

Your order has been accepted for implementation.

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.

Upon your first login, you will need to create an account.

Here is the link to your n8n server.

https://{$service_domain}/
Thank you for choosing us.

{$signature}
```

Subject: n8n Order Information

File Edit View Insert Format Table Help

Paragraph Verdana 11pt

Dear **{$client_name}**,

Your order has been accepted for implementation.

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.

Upon your first login, you will need to create an account.

Here is the link to your n8n server.

https://{$service_domain}/

Thank you for choosing us.

{$signature}

P

82 WORDS POWERED BY TINYMCE

Email Template (puqDockerN8N Update Email)

Docker n8n module **WHMCS**

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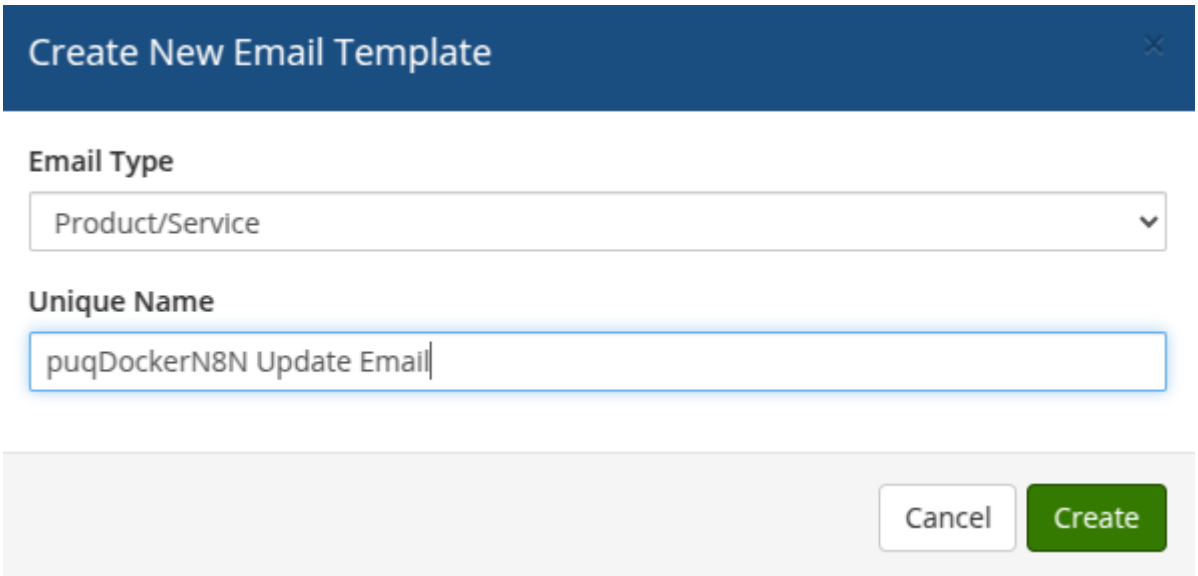
Create an email template for customer notifications.

```
System Settings->Email Templates->Create New Email Template
```

- **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.

Here is the link to your n8n server.

https://{$service_domain}/
Thank you for choosing us.

{$signature}
```

Subject: n8n Update Information

File Edit View Insert Format Table Help

Paragraph Verdana 11pt

Dear **{$client_name}**,

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

Here is the link to your n8n server.

https://{$service_domain}/

Thank you for choosing us.

{$signature}

38 WORDS POWERED BY TINYMCE

Email Template (puqDockerN8N Notification disk limit)

Docker n8n module **WHMCS**

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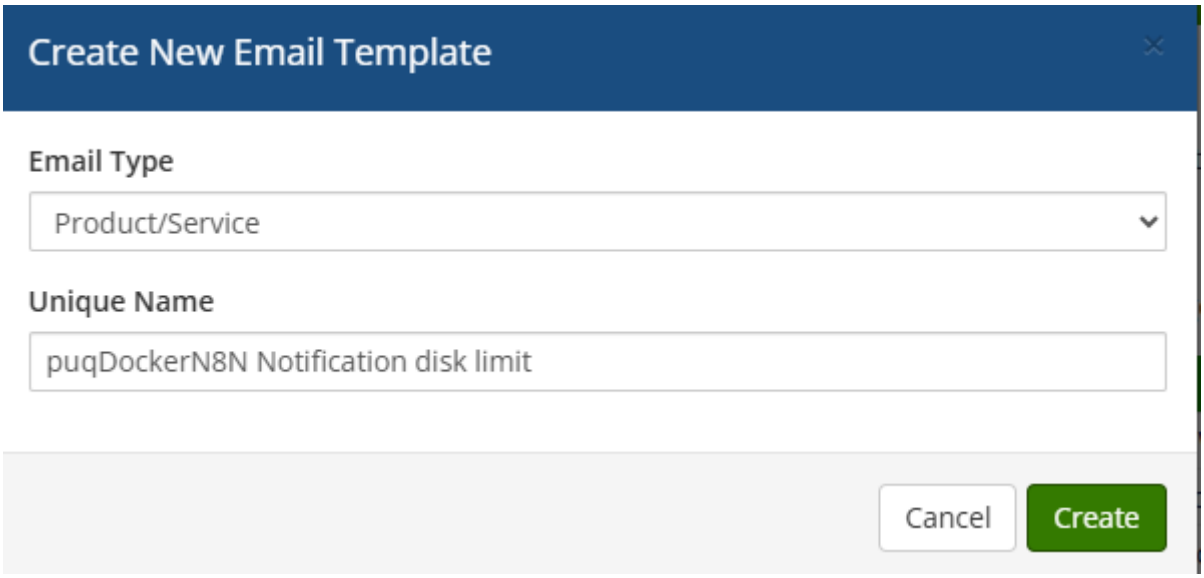
Create an email template for customer notifications.

```
System Settings->Email Templates->Create New Email Template
```

- **Email Type:** Product/service
- **Unique Name:** puqDockerN8N Notification disk limit



Subject:

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

Body:

```
Dear {$client_name},

We want to inform you that your n8n service is running low on disk space.
Please take action to prevent service interruptions.

Service Details:

Product/Service: {$service_product_name}
Domain: {$service_domain}
Total Disk Space: {$disk_total}
Used Disk Space: {$disk_used} ({$disk_used_percentage}%)
Consider freeing up space or upgrading your plan if needed.

{$signature}
```

Subject: Disk space usage {$disk_used_percentage}%

File Edit View Insert Format Table Help

Paragraph Verdana 11pt

Dear **{$client_name}**,

We want to inform you that your **n8n** service is running low on disk space.
Please take action to prevent service interruptions.

Service Details:

- **Product/Service:** {$service_product_name}
- **Domain:** {$service_domain}
- **Total Disk Space:** {$disk_total}
- **Used Disk Space:** {$disk_used} ({$disk_used_percentage}%)

Consider freeing up space or upgrading your plan if needed.

{$signature}

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