

# Installation and configuration guide

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# Basic concepts and requirements

## Docker InfluxDB 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 InfluxDB module** is part of the **WHMCS Docker module series** developed by **PUQcloud**. This module enables service providers to offer **InfluxDB 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

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.

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# 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 InfluxDB 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-InfluxDB/php82/PUQ_WHMCS-Docker-InfluxDB-latest.zip
```

PHP 8.1

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

PHP 7.4

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

All versions are available via link:

[https://download.puqcloud.com/WHMCS/servers/PUQ\\_WHMCS-Docker-InfluxDB/](https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Docker-InfluxDB/)

## 2. Unzip the archive with the module.

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

## 3. Copy and Replace "puqDockerInfluxDB" from "PUQ\_WHMCS-Docker-InfluxDB" to "WHMCS\_WEB\_DIR/modules/servers/"

# Preparing Docker Server

Docker InfluxDB 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 InfluxDB module **WHMCS**

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## Overview

The **Docker InfluxDB 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

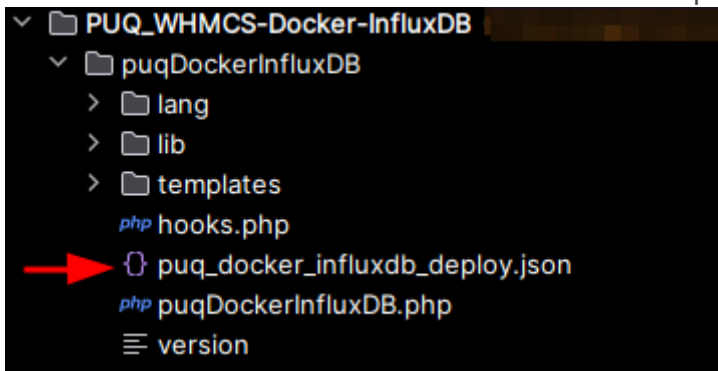
You have two options:

#### **Option 1: Use the Latest Version from the n8n Marketplace**

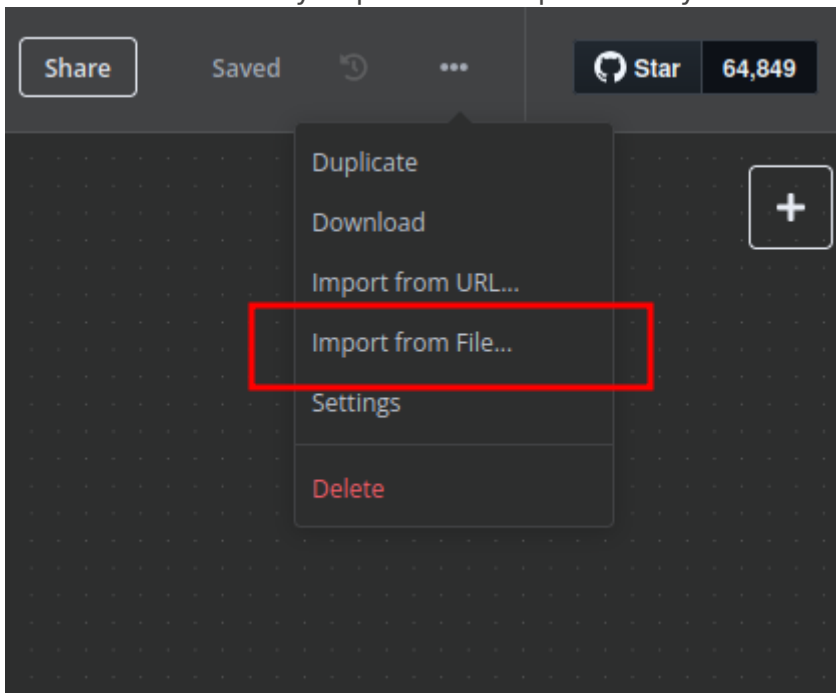
- The latest workflow templates for our modules are available on the official n8n marketplace.
- Visit our profile to access all available templates: [PUQcloud on n8n](#)

## 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

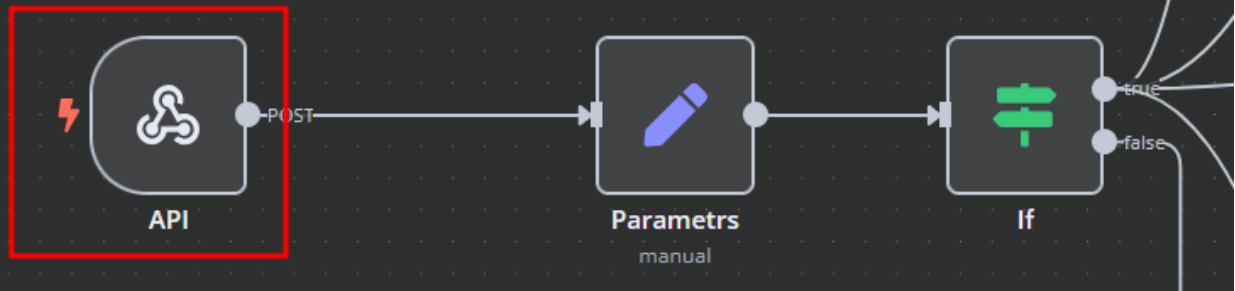
## Configure API Webhook and SSH Access

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



## Additional Resources

- Full documentation: <https://doc.puq.info/books/docker-influxdb-whmcs-module>
- WHMCS module: <https://puqcloud.com/whmcs-module-docker-influxdb.php>



## Webhook URLs

Test URL

Production URL

POST

`https://n8n.puqcloud.com/webhook-test/docker-influxdb`

## HTTP Methods

POST ×


## Path

`docker-influxdb`

## Authentication

Basic Auth ▼

## Credential for Basic Auth

InfluxDB ^ 

Basic Auth

Immich

Basic Auth

InfluxDB

Basic Auth

MinIO

Basic Auth


n8n



Basic Auth

Vaultwarden

Basic Auth

**+ Create new credential**

 InfluxDB  
Basic Auth

Connection

Sharing

Details


Need help filling out these fields? [Open docs](#)

User

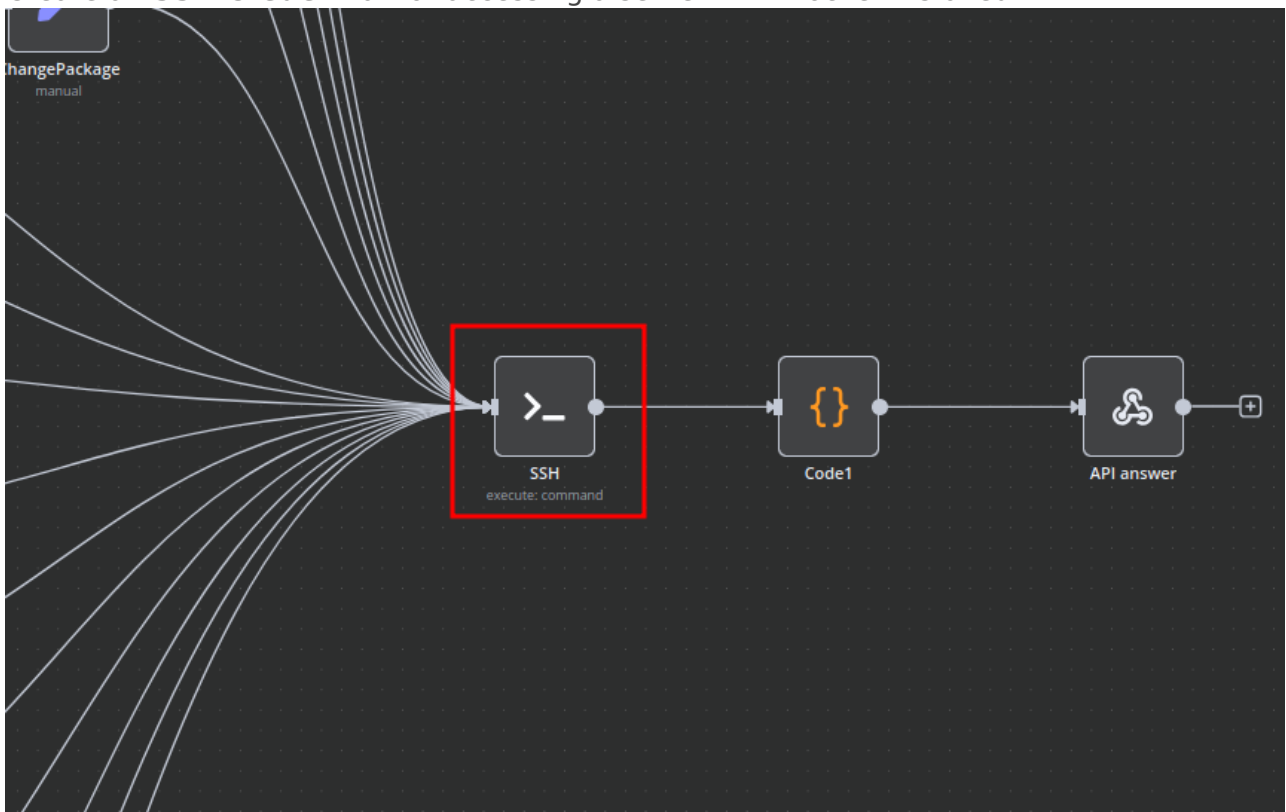
InfluxDB

Password

••••

 Enterprise plan users can pull in credentials from external vaults. [More info](#)

- 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

fx {{ \$json.sh }}

Working Directory

fx /

>\_

d01-test.uuq.pl-puq

SSH Password

✕

Connection

Sharing

Details

✔ Connection tested successfully

Retry

Need help filling out these fields? [Open docs](#)

Host \*

d01-test.uuq.pl

Port \*

22

Username

puq

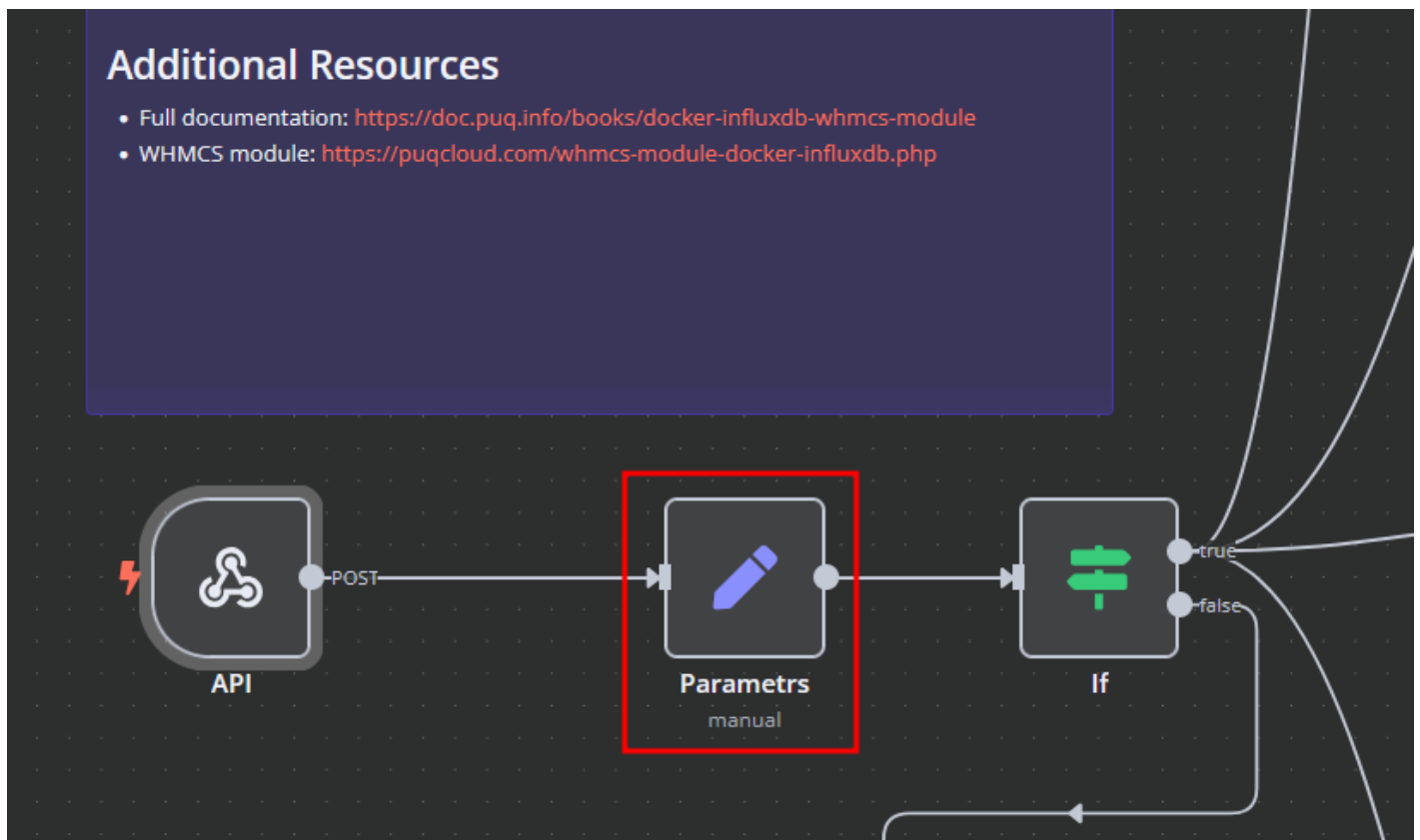
Password


.....

Enterprise plan users can pull in credentials from external vaults. [More info](#)

# Modify Template Parameters

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



 **Parameters**

Test step

ParametersSettingsDocs

Mode

Manual Mapping

Fields to Set

server\_domain

A String

d01-test.uuq.pl

[empty]

clients\_dir

A String

/opt/docker/clients

[empty]

mount\_dir

A String

/mnt

[empty]

screen\_left

A String

{{

[empty]

screen\_right

A String

}}

[empty]

- `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).

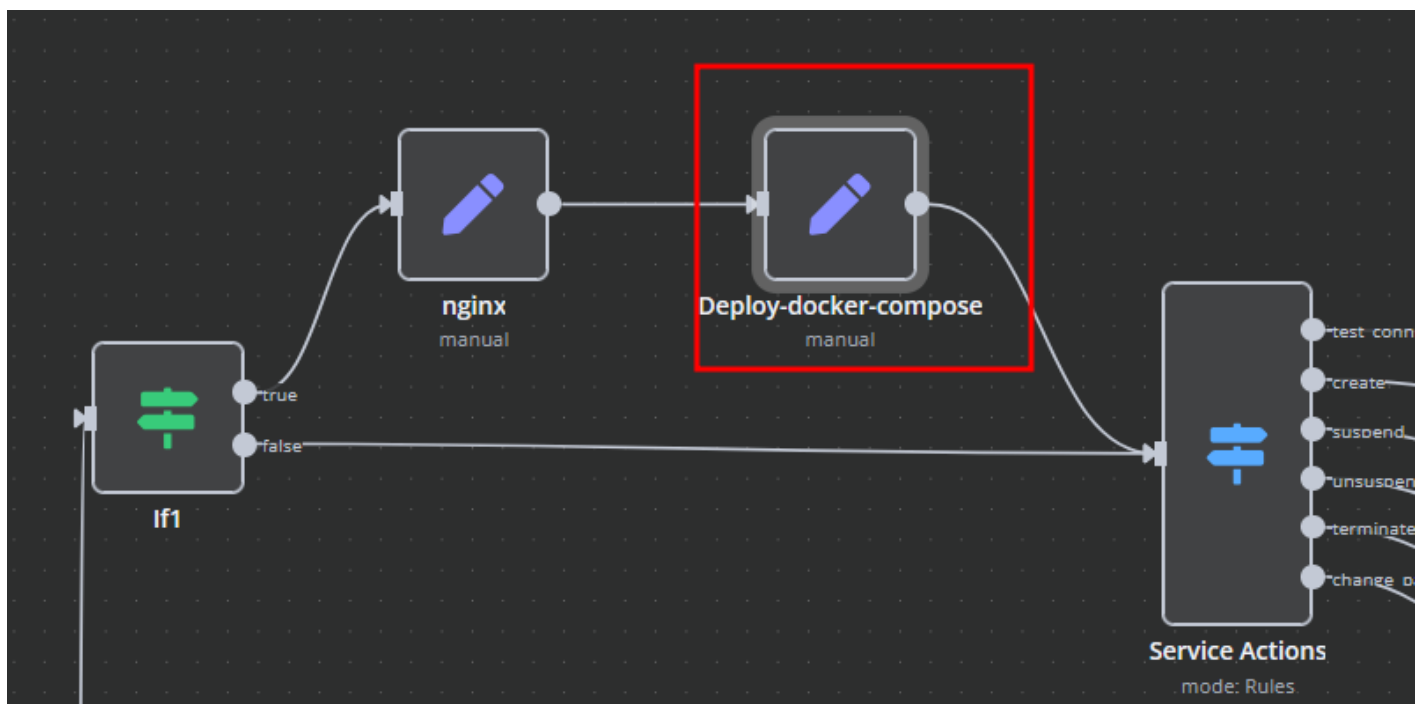
**Do not modify** the following technical parameters:

- `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



```

name: "{{ $('API').item.json.body.domain }}_influxdb"

services:
  "{{ $('API').item.json.body.domain }}_influxdb:
    container_name: "{{ $('API').item.json.body.domain }}_influxdb
    image: influxdb:2.7
    restart: unless-stopped
    volumes:
      - "{{ $('Parametrs').item.json.mount_dir }}/{{ $('API').item.json.body.domain }}/lib:/var/lib/influxdb2
      - "{{ $('Parametrs').item.json.mount_dir }}/{{ $('API').item.json.body.domain }}/etc:/etc/influxdb2
    environment:
      - LETSENCRYPT_HOST={{ $('API').item.json.body.domain }}
      - VIRTUAL_HOST={{ $('API').item.json.body.domain }}
      - DOCKER_INFLUXDB_INIT_MODE=setup
      - DOCKER_INFLUXDB_INIT_USERNAME={{ $('API').item.json.body.username }}
      - DOCKER_INFLUXDB_INIT_PASSWORD={{ $('API').item.json.body.password }}
      - DOCKER_INFLUXDB_INIT_ORG={{ $('API').item.json.body.username }}_ORG
      - DOCKER_INFLUXDB_INIT_BUCKET={{ $('API').item.json.body.username }}_BUCKET
    healthcheck:
      disable: false
    networks:
      - nginx-proxy_web
    mem_limit: "{{ $('API').item.json.body.ram }}G"
    cpus: "{{ $('API').item.json.body.cpu }}"

networks:
  nginx-proxy_web:
    external: true

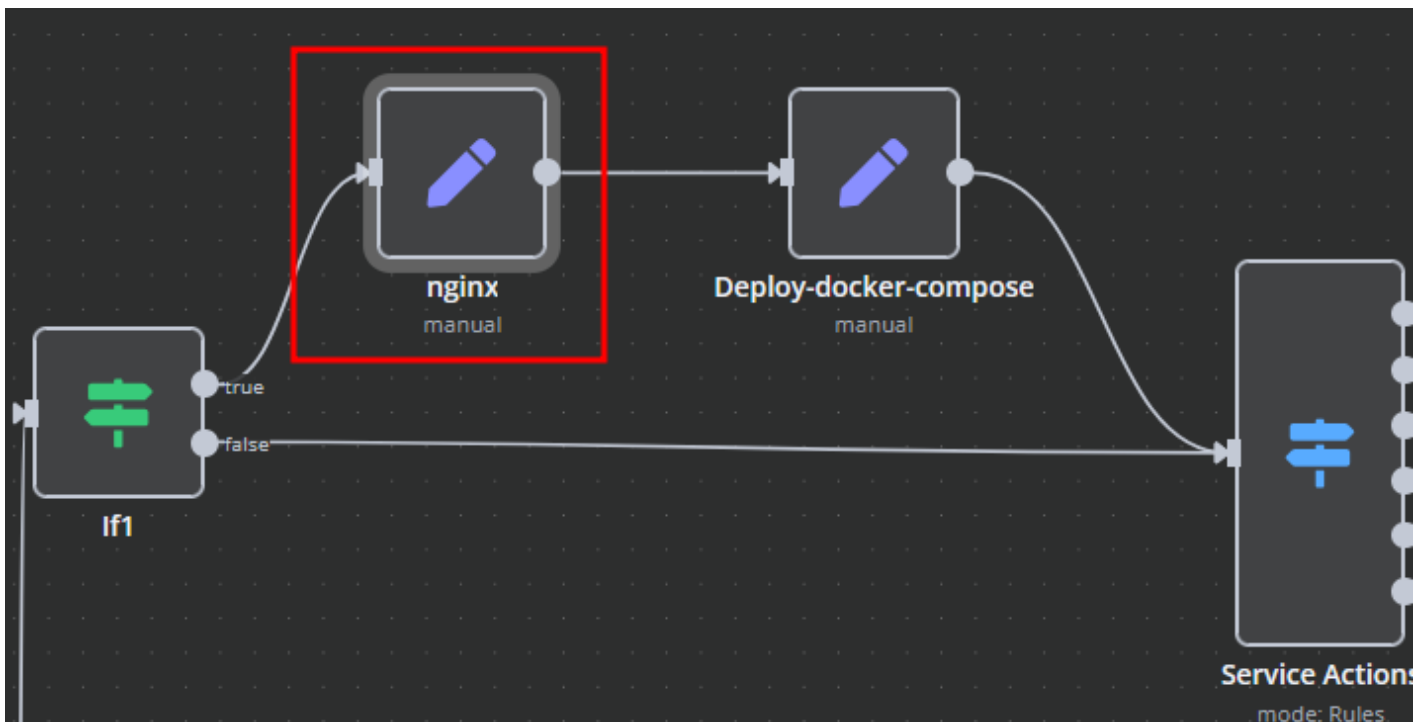
```

## 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

Parameters

Settings

Test step

Docs

Mode

Manual Mapping

Fields to Set

main	A String	=	[empty]
main_location	A String	=	proxy_pass_header Server; proxy_set_header X-Real-IP \$remote_addr; proxy_set_header X-Forwarded-For \$proxy_add_x_forwarded_for; proxy_set_header X-Scheme \$scheme; proxy_set_header Host \$http_host;

Drag input fields here or Add Field

Include Other Input Fields

Options

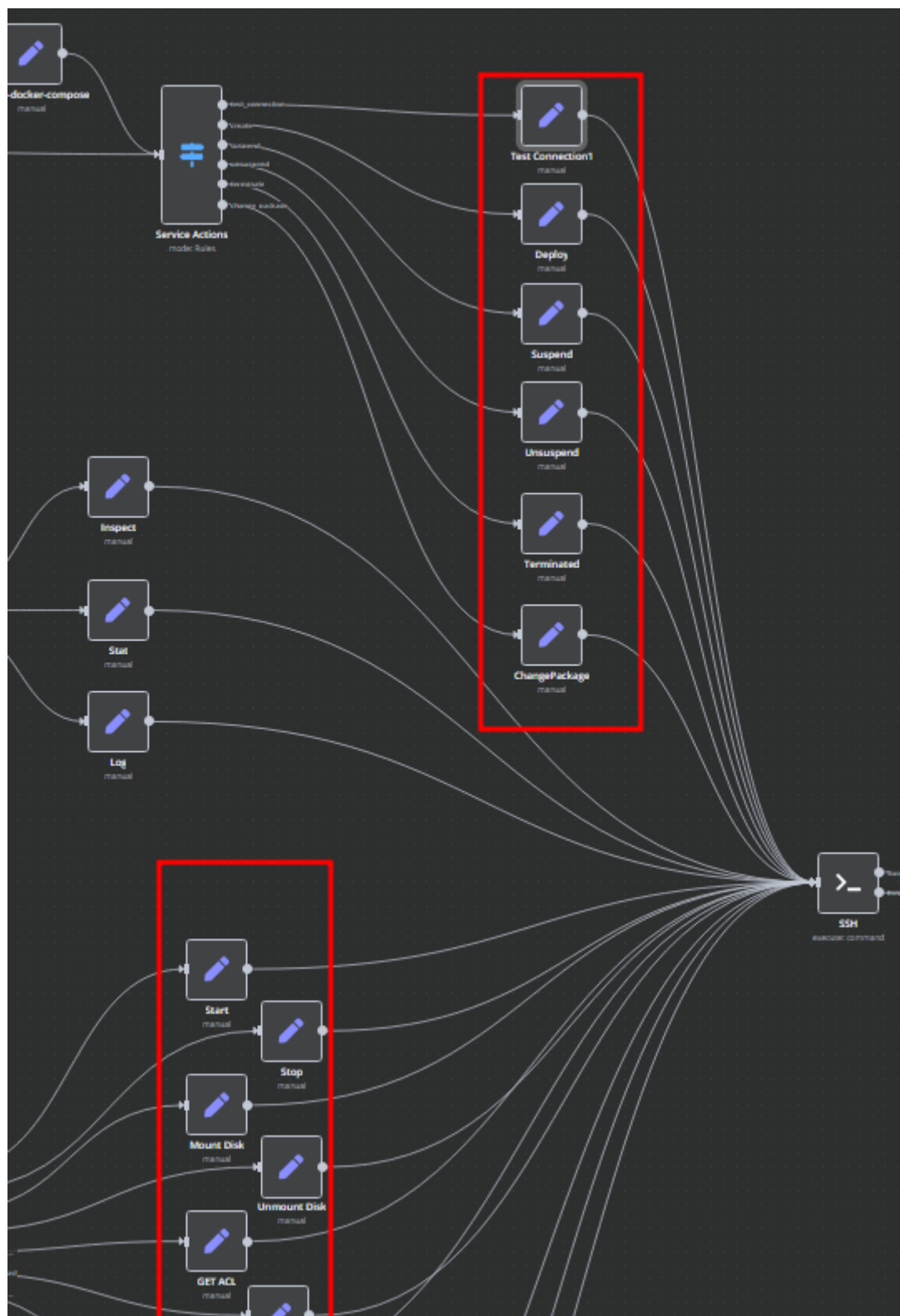
No properties

Add option

# 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 InfluxDB module **WHMCS**

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Add a new server to the system WHMCS.

System Settings->Servers->Add New Server

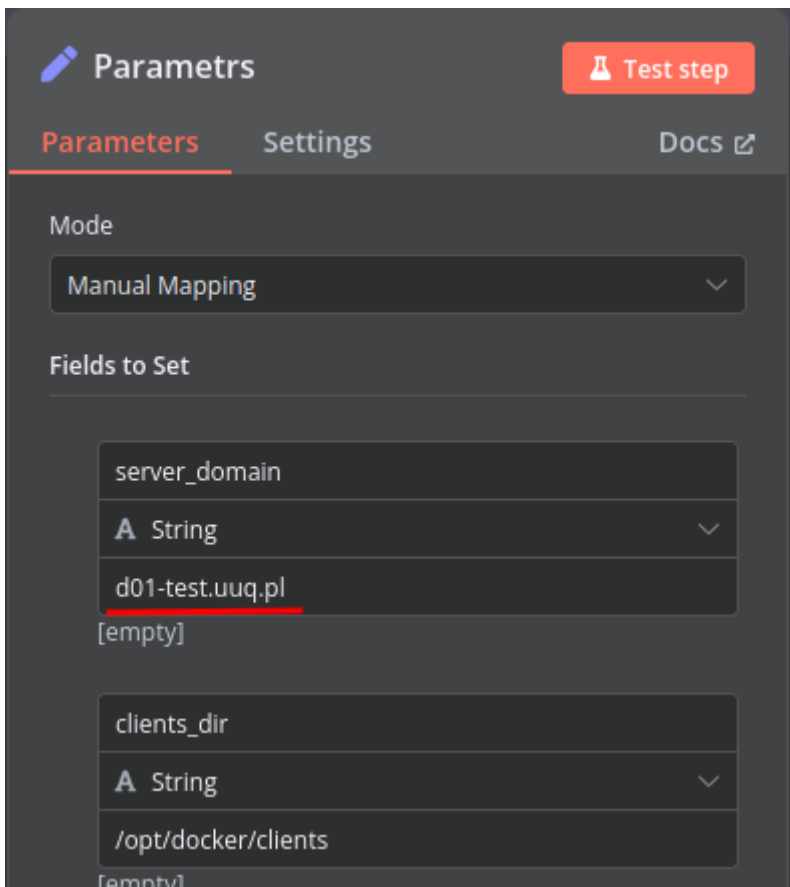
- Enter the correct **Name** and **Hostname**

Name	<input type="text" value="d01-test.uuq.pl"/>
Hostname	<input type="text" value="d01-test.uuq.pl"/>
IP Address	<input type="text"/>
Assigned IP Addresses (One per line)	<div></div>
Monthly Cost	<input type="text" value="0.00"/>
Datacenter/NOC	<input type="text"/>
Maximum No. of Accounts	<input type="text" value="200"/>
Server Status Address	<div><input type="text"/> To display this server on the server status page, enter the full path to the server status folder (required to be uploaded to each server you want to monitor) - eg. <a href="https://www.example.com/status/">https://www.example.com/status/</a></div>
Enable/Disable	<input type="checkbox"/> Check to disable this server

**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.



The screenshot shows the 'Parameters' configuration page in n8n. At the top, there is a 'Test step' button. Below it are tabs for 'Parameters' (selected), 'Settings', and 'Docs'. The 'Mode' is set to 'Manual Mapping'. Under 'Fields to Set', there are two parameter groups. The first group is for 'server\_domain', which is a 'String' type, and its value is 'd01-test.uuq.pl' (underlined in red). The second group is for 'clients\_dir', which is also a 'String' type, and its value is '/opt/docker/clients'.

In the **Server Details** section, select the **"PUQ Docker InfluxDB"** 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	<div><div>PUQ Docker InfluxDB</div><div>▼</div></div> <div>Test Connection</div> <div>✓ Connection successful. Some values have been auto-filled.</div>
Username	<div>InfluxDB</div>
Password	<div>....</div>
Access Hash	<div>https://n8n.puqcloud.com/webhook/docker-influxdb</div>
Secure	<div><input checked="" type="checkbox"/> Check to use SSL Mode for Connections</div>

## Webhook URLs

Test URL

Production URL

POST

<https://n8n.puqcloud.com/webhook/docker-influxdb>

## HTTP Methods

POST [×](#)

## Path

docker-influxdb

## Authentication

Basic Auth

## Credential for Basic Auth

InfluxDB

## 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 InfluxDB 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 InfluxDB**" module

- **License key** - A pre-purchased license key for the "**PUQ Docker InfluxDB**" 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.

Details	Pricing	Module Settings	Custom Fields	Configurable Options	Upgrades	Free Domain	Cross-sells	Other	Links
---------	---------	-----------------	---------------	----------------------	----------	-------------	-------------	-------	-------

Module Name

PUQ Docker InfluxDB

Server Group

None

License key

M5X9RY-XZNCZX-EZOQWA-j0N0ID-FXQUBI

success: 2025-04-21T18:28:57+02:00

Disk space

1

GB Ex: 1

CPU

1

Ex: 0,1

RAM

1

GB Ex: 0,1

Link to instruction

https://puq.info/

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

Docker

1

Ex: 0,1

Client Area

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

The app subdomain  
(user\_id), (service\_id), (random\_digit\_x), (random\_letter\_x)  
Unix time: {unixtime} Year: {year}, Month: {month}, Day: {day}, Hour: {hour}, Minute: {minute}, Second: {second}

Notification, used disk space X %

95

Service

Notification disk limit email template

puqDockerInfluxDB Notification disk limit

Metric Billing

Traffic IN (GB)

Configure Pricing

ON

Traffic OUT (GB)

Configure Pricing

ON

Switch to Advanced Mode

# Metric Billing

# Docker InfluxDB 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/>

## Products/Services

[Edit Product](#)[illegible]

# Configure Pricing



Traffic IN (GB)

Metric Type: Monthly

Metric Unit: GigaBytes

Pricing

Quantity Included

Scheme:

0.00

☒ Per Unit ⓘ ☐ Total Volume ⓘ ☐ Graduated ⓘ

Price Per GB			
PLN	EUR	UAH	USD
1.00	1.00	1.00	1.00

Close

Save

# Email Template (puqDockerInfluxDB Welcome Email)

Docker InfluxDB 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:** puqDockerInfluxDB Welcome Email

Create New Email Template

Email Type

Product/Service

Unique Name

puqDockerInfluxDB Welcome Email

Cancel

Create

**Subject:**

InfluxDB 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 InfluxDB instance is in progress.

Within the next 4-5 minutes, you will be able to use your InfluxDB instance.

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

Here is the link to your InfluxDB server.

[https://{{\\$service\\_domain}}/](https://{{$service_domain}}/)

Thank you for choosing us.

{{\$signature}}





Subject: InfluxDB Order Information























FileEditViewInsertFormatTableHelp

ParagraphVerdana11pt

**B***I*~~S~~UA

A





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 InfluxDB instance is in progress.  
Within the next 4-5 minutes, you will be able to use your InfluxDB instance.

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

Here is the link to your InfluxDB server.  
https://{service\_domain}/

Thank you for choosing us.

{signature}

P

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# Email Template (puqDockerInfluxDB Update Email)

Docker InfluxDB 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:** puqDockerInfluxDB Update Email

Create New Email Template

Email Type

Product/Service

Unique Name

puqDockerInfluxDB Update Email

Cancel

Create

**Subject:**

InfluxDB Update Information

Body:

Dear {\${client\_name}},

Your instance is currently being updated.

You will be able to use your InfluxDB server again within 3 minutes.

Here is the link to your InfluxDB server.

[https://{{service\\_domain}}/](https://{{service_domain}}/)


Thank you for choosing us.





{\${signature}}






















Subject:

File Edit View Insert Format Table Help

Paragraph Verdana 11pt

**B** *I* ~~S~~ U A 

Dear {**client\_name**},

Your instance is currently being updated.

You will be able to use your InfluxDB server again within 3 minutes.

Here is the link to your InfluxDB server.

[https://{{service\\_domain}}/](https://{{service_domain}}/)

Thank you for choosing us.

{signature}

P

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# Email Template (puqDockerInfluxDB Notification disk limit)

Docker InfluxDB 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:** puqDockerInfluxDB Notification disk limit

## Create New Email Template

Email Type

Product/Service

Unique Name

puqDockerInfluxDB Notification disk limit

Cancel

Create

**Subject:**

Disk space usage {\$disk\_used\_percentage}%

**Body:**

Dear {\$client\_name},

We want to inform you that your InfluxDB 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

**B** *I* ~~S~~ U A 

Dear { \$client\_name },

We want to inform you that your InfluxDB 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 }

P

58 WORDS POWERED BY TINYMCE