

# Setting up n8n workflow

## Docker MinIO module **WHMCS**

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## Overview

The **Docker MinIO 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

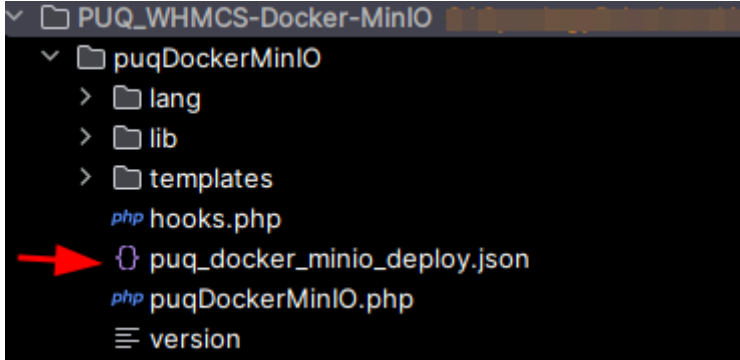
You have two options:

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

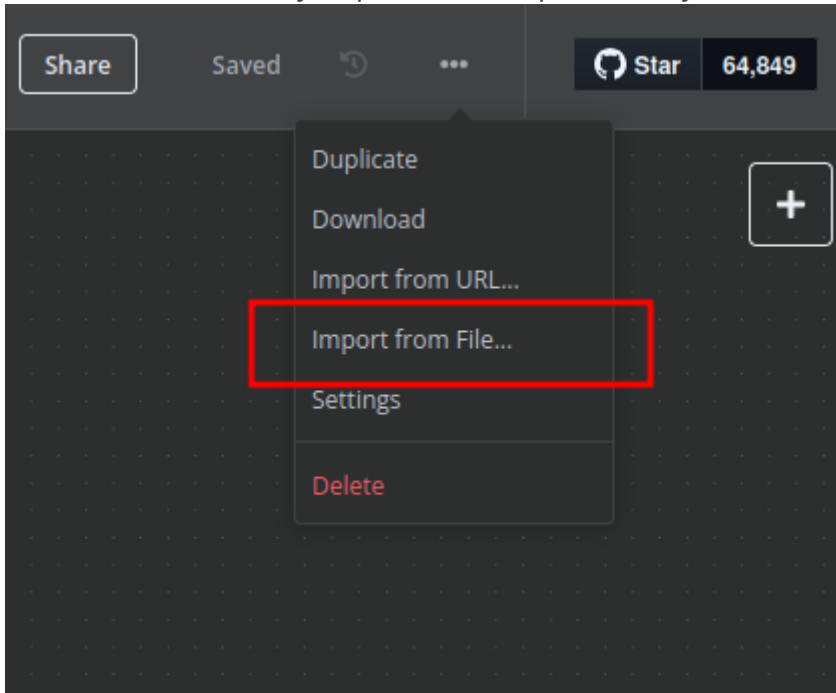
- The latest workflow templates for our modules are available on the official n8n marketplace.
- Visit our profile to access all available templates: [PUQcloud on n8n](#)

## 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

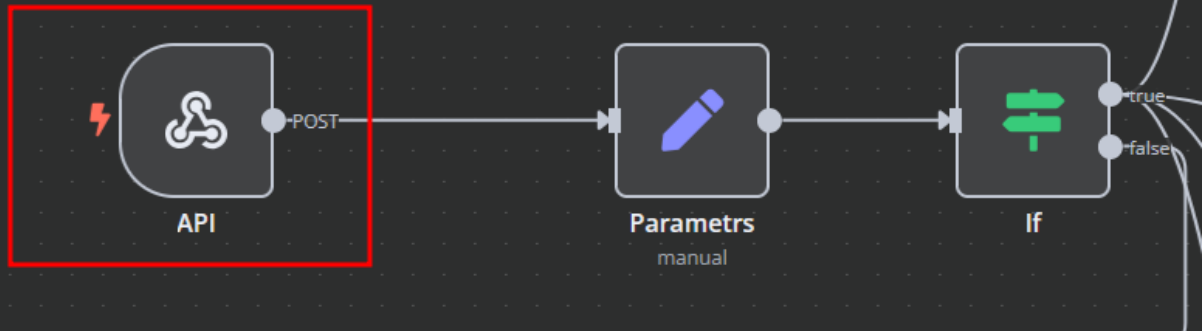
- Create a **Basic Auth Credential**

for the Webhook API Block in n8n.

- screen\_right

## Additional Resources

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



API

Listen for test event

ParametersSettingsDocs

Webhook URLs

Test URLProduction URL

POSThttps://n8n.puqcloud.com/webhook-test/docker-minio

HTTP Methods

POST

Path

docker-minio

Authentication

Basic Auth

Credential for Basic Auth

incom API User

Incom API UserBasic Auth

Unnamed credentialBasic Auth

+ Create new credential

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](#)

API credential  
Basic Auth

Save

Connection

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

Sharing

Details

User

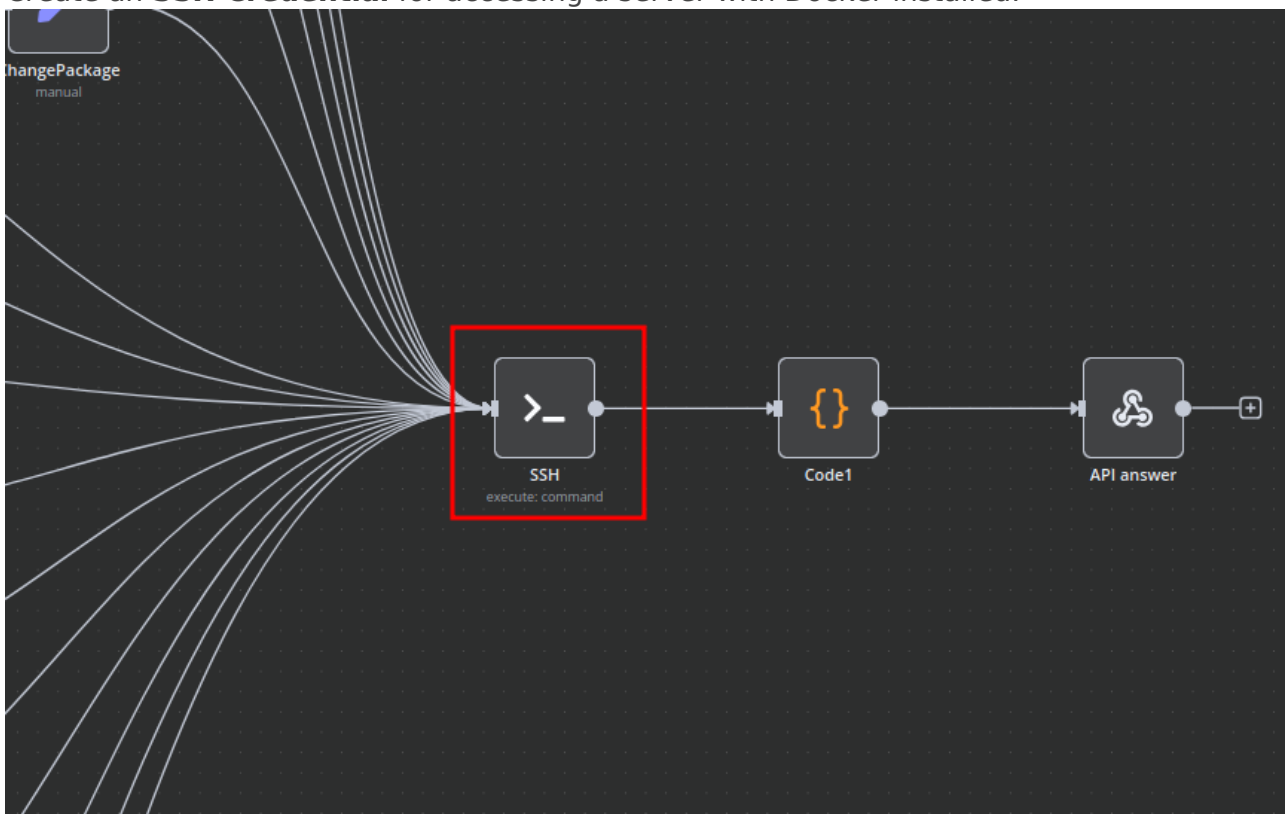
test

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

.....

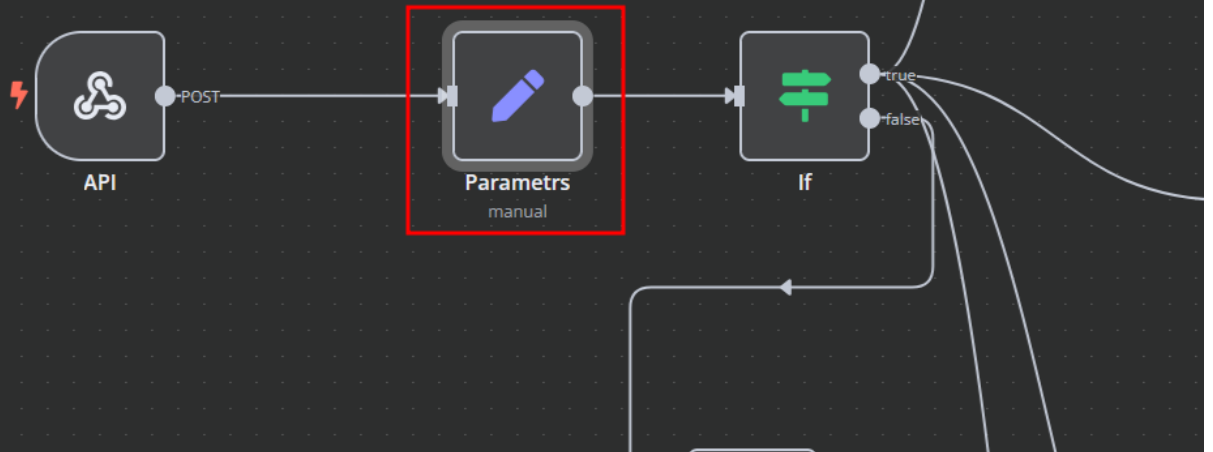
ⓘ Enterprise plan users can pull in credentials from external vaults. [More info](#)

# Modify Template Parameters


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

## Additional Resources

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







 **Parameters**

Parameters

Settings


Docs 

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).

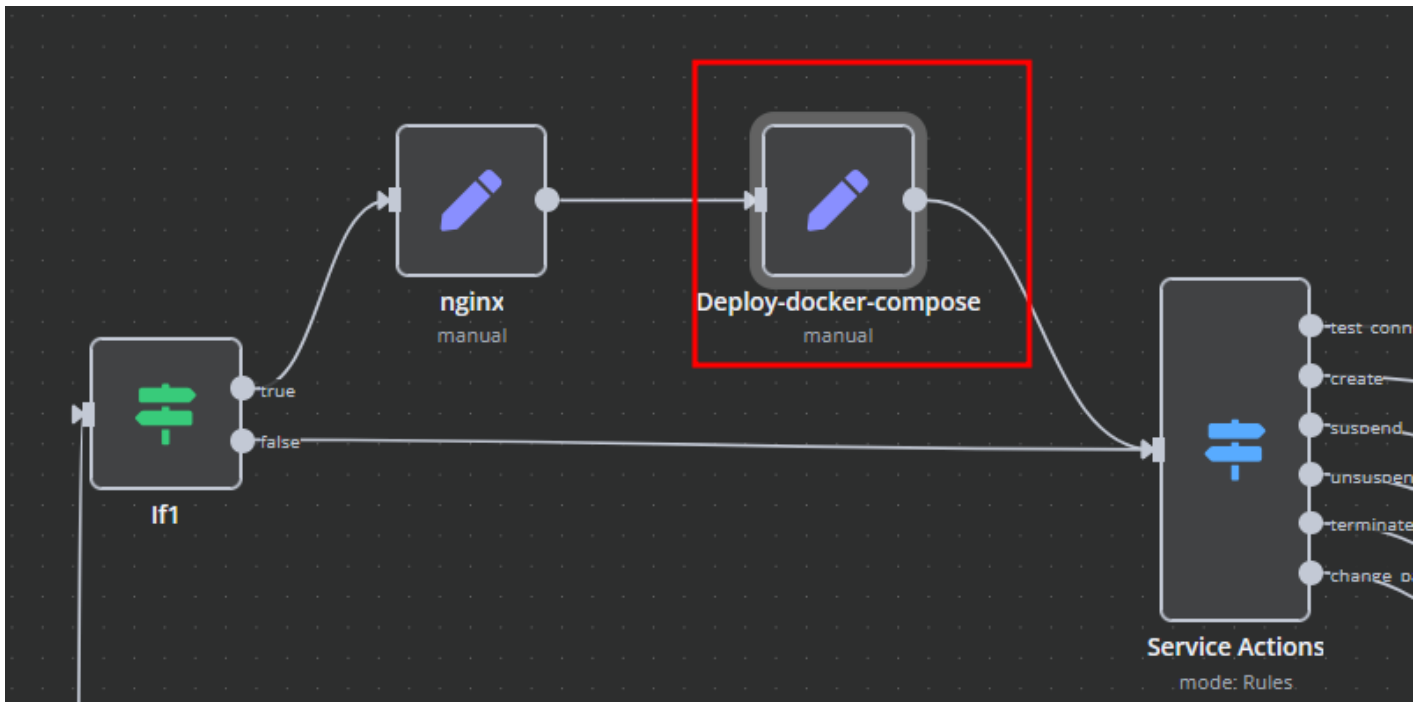
**Do not modify** the following technical parameters:

- `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



## Expression

Anything inside `{{ }}` is JavaScript. [Learn more](#)

```
version: "3"

services:
  {{ $('API').item.json.body.domain }}:
    image: minio/minio
    restart: unless-stopped
    container_name: {{ $('API').item.json.body.domain }}
    command: server /data --console-address ":9001"
    environment:
      MINIO_ROOT_USER: {{ $('API').item.json.body.username }}
      MINIO_ROOT_PASSWORD: {{ $('API').item.json.body.password }}
      MINIO_BROWSER_REDIRECT_URL: https://console.{{ $('API').item.json.body.domain }}
      LETSENCRYPT_HOST: {{ $('API').item.json.body.domain }},console.{{
$('API').item.json.body.domain }}
      VIRTUAL_HOST_MULTIPORTS: |-
        {{ $('API').item.json.body.domain }}:
          "/":
            port: 9000
        console.{{ $('API').item.json.body.domain }}:
          "/":
            port: 9001
    volumes:
      - "{{ $('Parameters').item.json.mount_dir }}/{{ $('API').item.json.body.domain }}/data:/
data"
    networks:
      - nginx-proxy_web
    mem_limit: "{{ $('API').item.json.body.ram }}"G"
    cpus: "{{ $('API').item.json.body.cpu }}"

networks:
  nginx-proxy_web:
    external: true
```

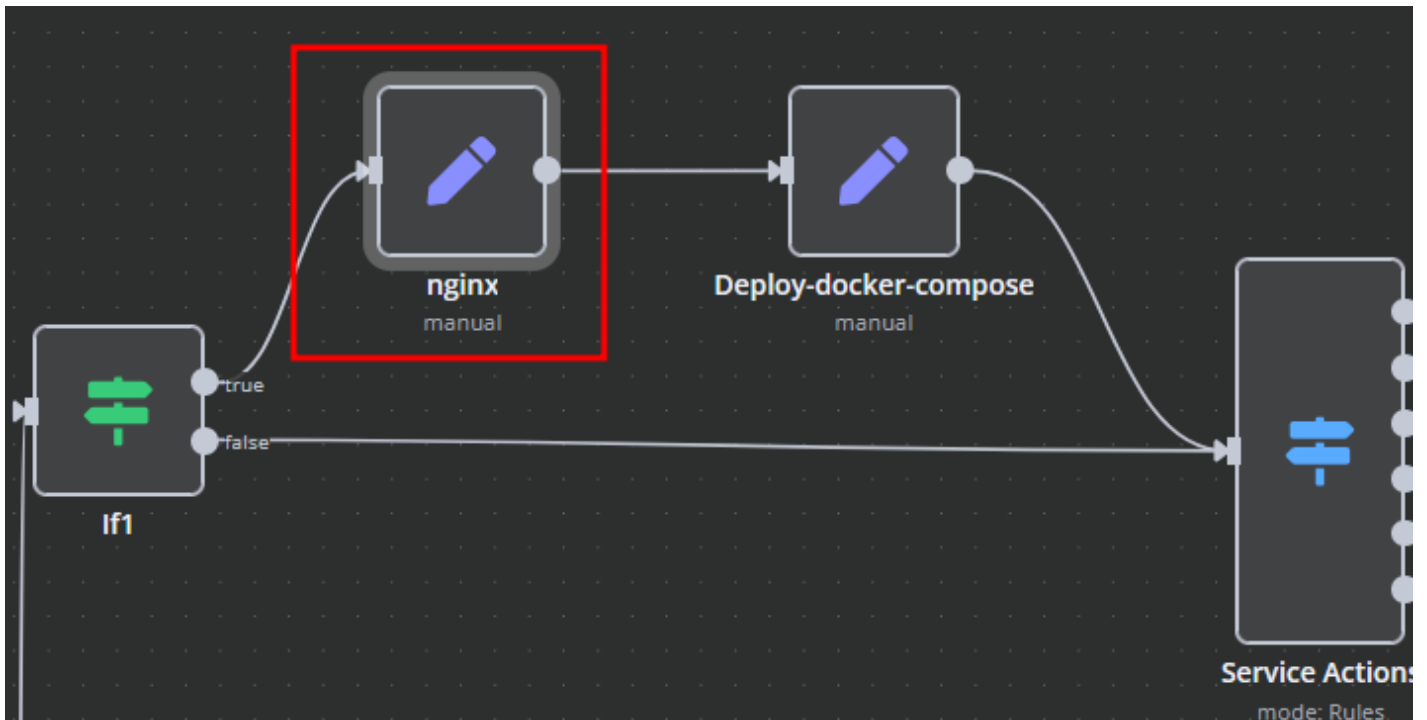
## nginx

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.

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



Mode

Manual Mapping

Fields to Set

main

A String

```
= ignore_invalid_headers off;
client_max_body_size 0;
proxy_buffering off;
proxy_request_buffering off;
```

```
ignore_invalid_headers off; client_max_body_size 0; proxy_buffering off; proxy_request_buffering off;
```

main\_location

A String

```
= # Custom header
proxy_set_header Host $http_host;
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header X-Forwarded-Proto $scheme;
```

```
# Custom header proxy_set_header Host $http_host; proxy_set_header X-Real-IP $remote_addr; proxy_set_head...
```

console

A String

```
= ignore_invalid_headers off;
client_max_body_size 0;
proxy_buffering off;
proxy_request_buffering off;
```

```
ignore_invalid_headers off; client_max_body_size 0; proxy_buffering off; proxy_request_buffering off;
```

console\_location

A String

```
= # Custom header
proxy_set_header Host $http_host;
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header X-Forwarded-Proto $scheme;
proxy_set_header X-Main-Proxy true;
```

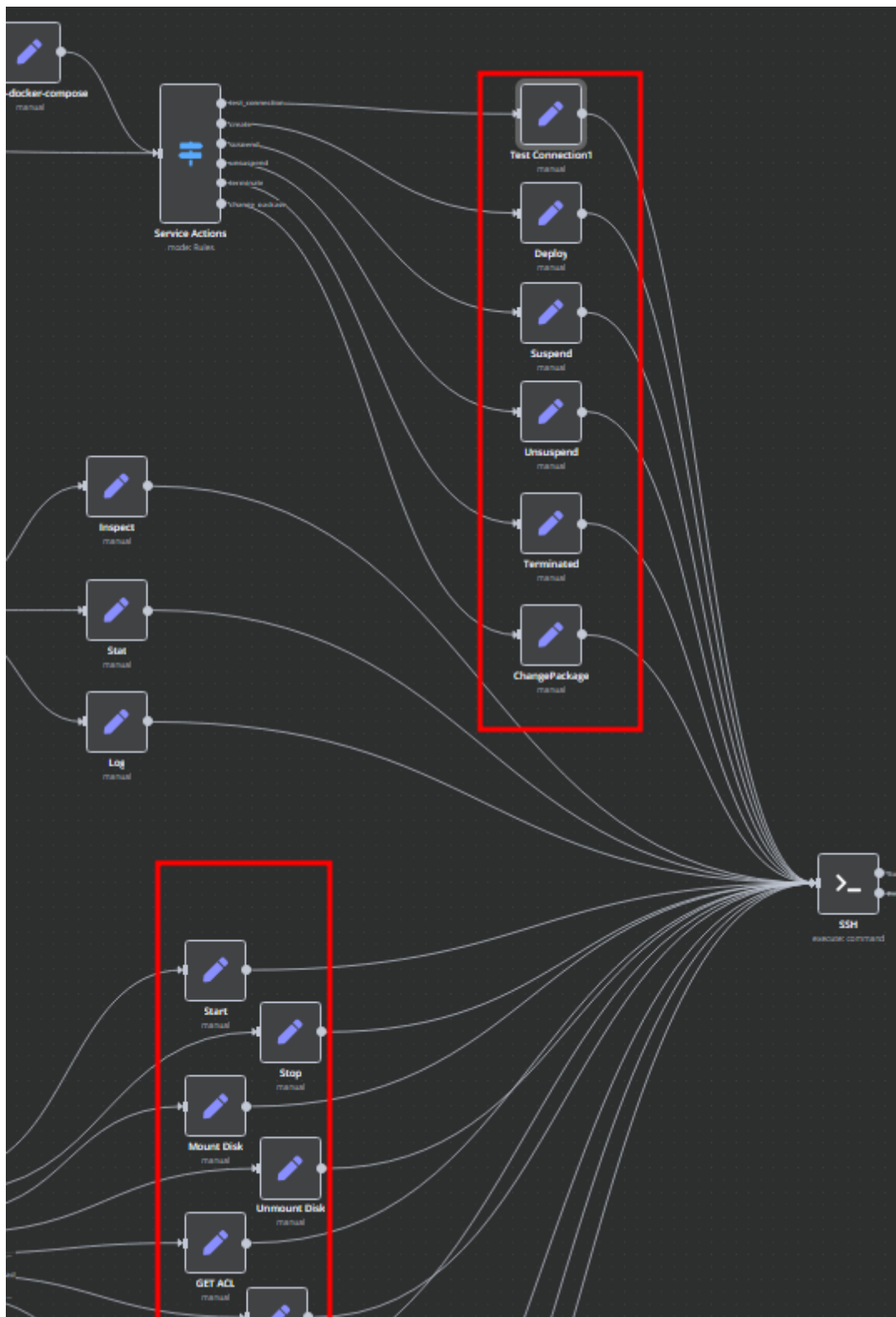
```
# Custom header proxy_set_header Host $http_host; proxy_set_header X-Real-IP $remote_addr; proxy_set_head...
```

# 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.



Revision #2

Created 14 March 2025 17:43:07 by Ruslan

Updated 21 March 2025 14:22:06 by Yuliia Noha