

Setting up n8n workflow

Docker Grafana module **WHMCS**

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Overview

The **Docker Grafana 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

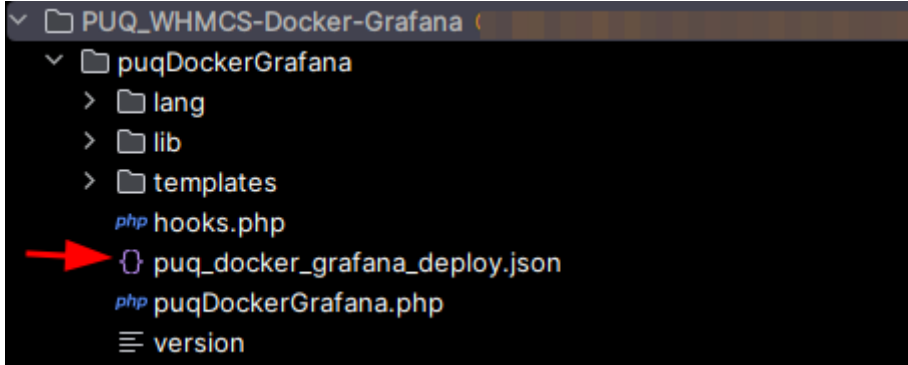
You have two options:

Option 1: Use the Latest Version from the n8n Marketplace

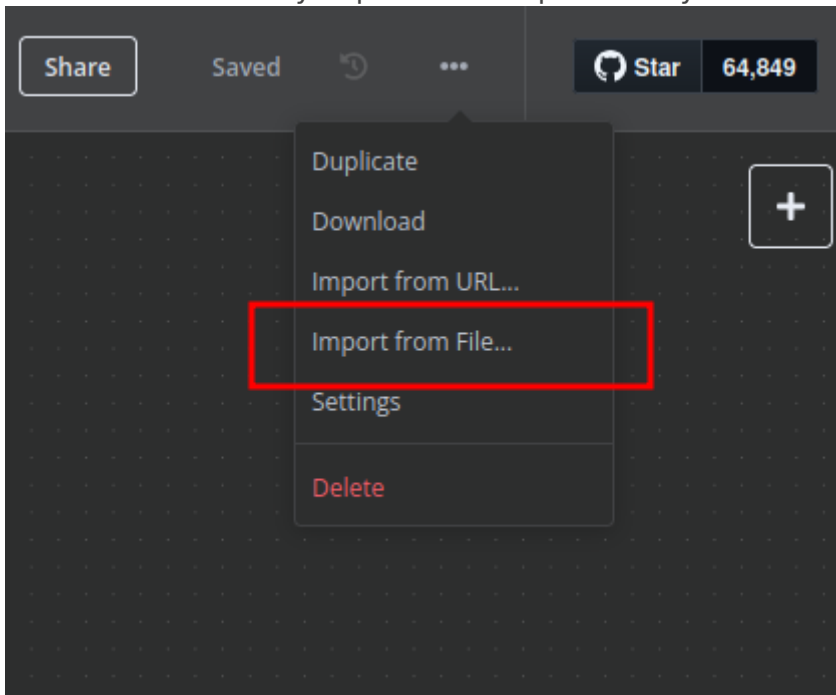
- The latest workflow templates for our modules are available on the official n8n marketplace.
- Visit our profile to access all available templates: [PUQcloud on n8n](#)

Option 2: Manual Installation

- Each module version comes with a workflow template file.



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

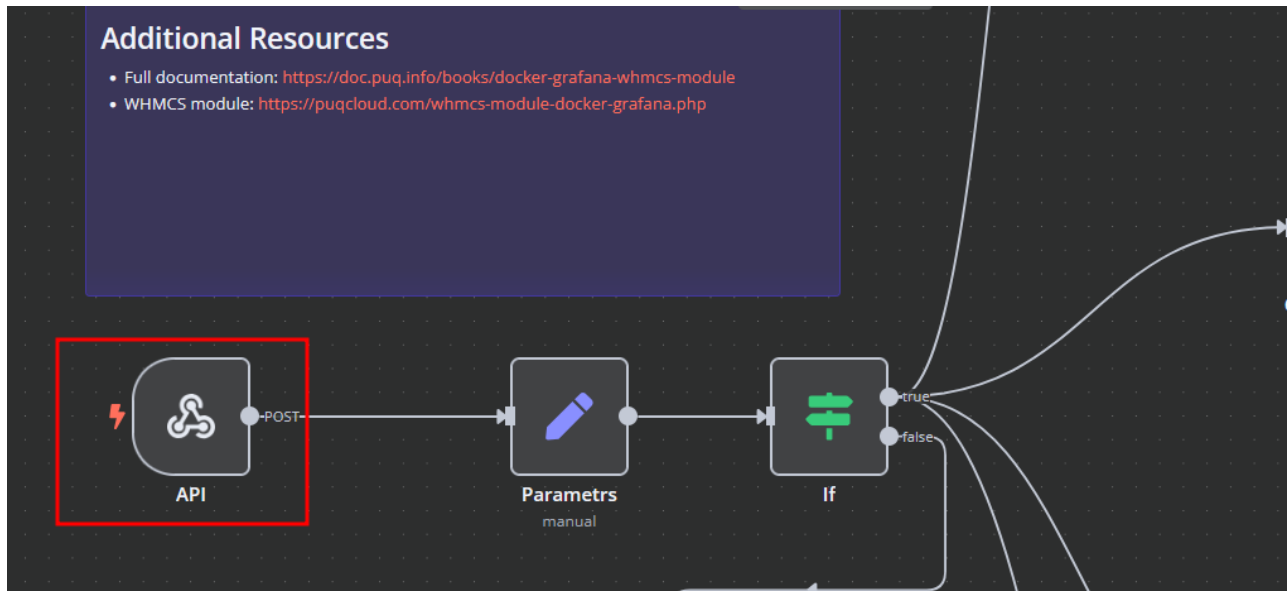


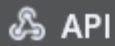
n8n Workflow API Backend Setup for WHMCS/WISECP

Configure API Webhook and SSH Access

- Create a **Basic Auth Credential**

for the Webhook API Block in n8n.





API

Listen for test event

Parameters

Settings

Docs

Webhook URLs

Test URL

Production URL

POST

https://n8n.puqcloud.com/webhook-test/docker-grafana

HTTP Methods

POST



Path

docker-grafana

Authentication

Basic Auth

Credential for Basic Auth

Grafana



Basic Auth

Immich

Basic Auth

InfluxDB

Basic Auth

MinIO

Basic Auth


n8n


Basic Auth

Vaultwarden

Basic Auth

+ Create new credential

 Grafana
Basic Auth



Connection

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

Sharing

User

Grafana

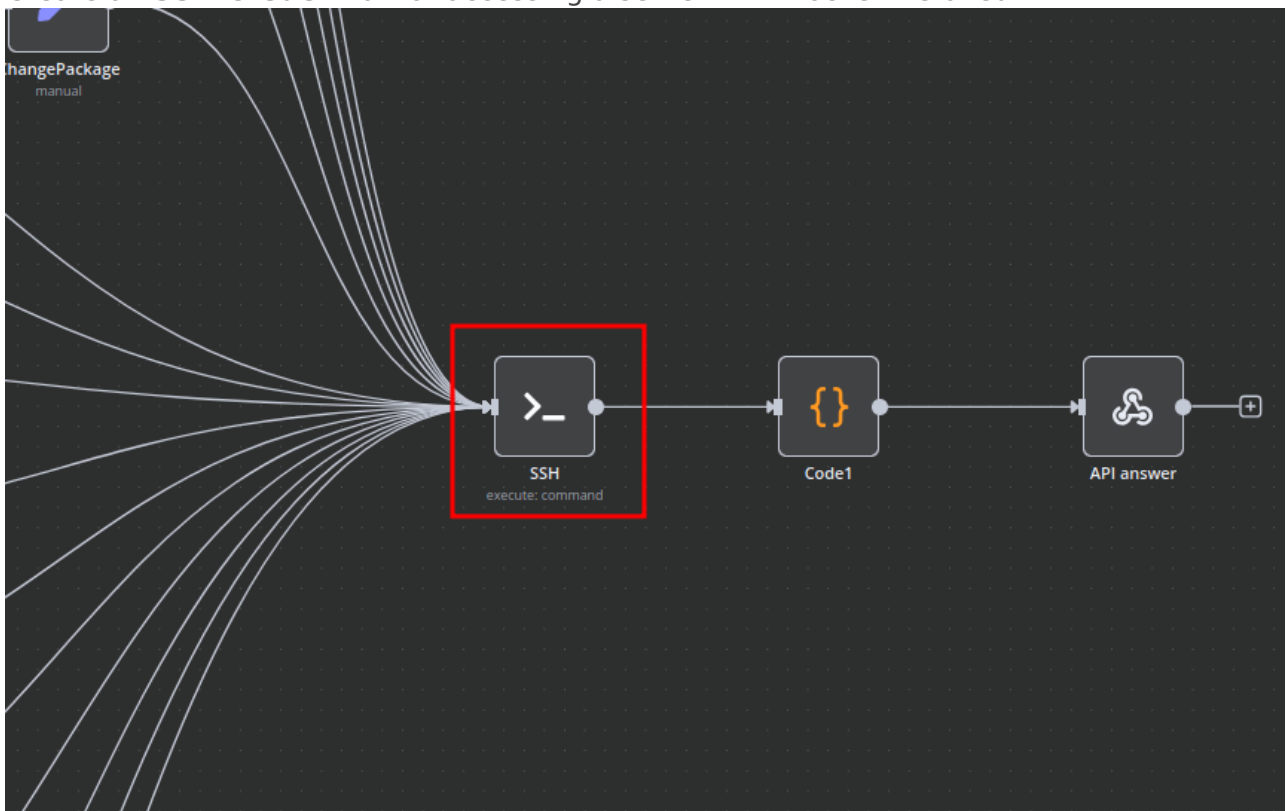
Details

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

.....

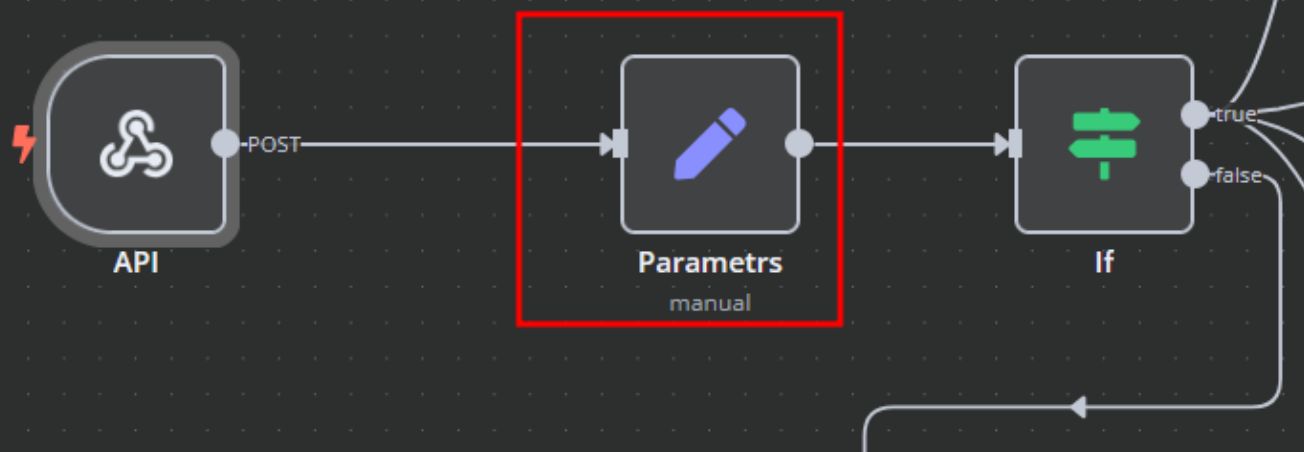
ⓘ Enterprise plan users can pull in credentials from external vaults. [More info](#)


Modify Template Parameters

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

Additional Resources


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

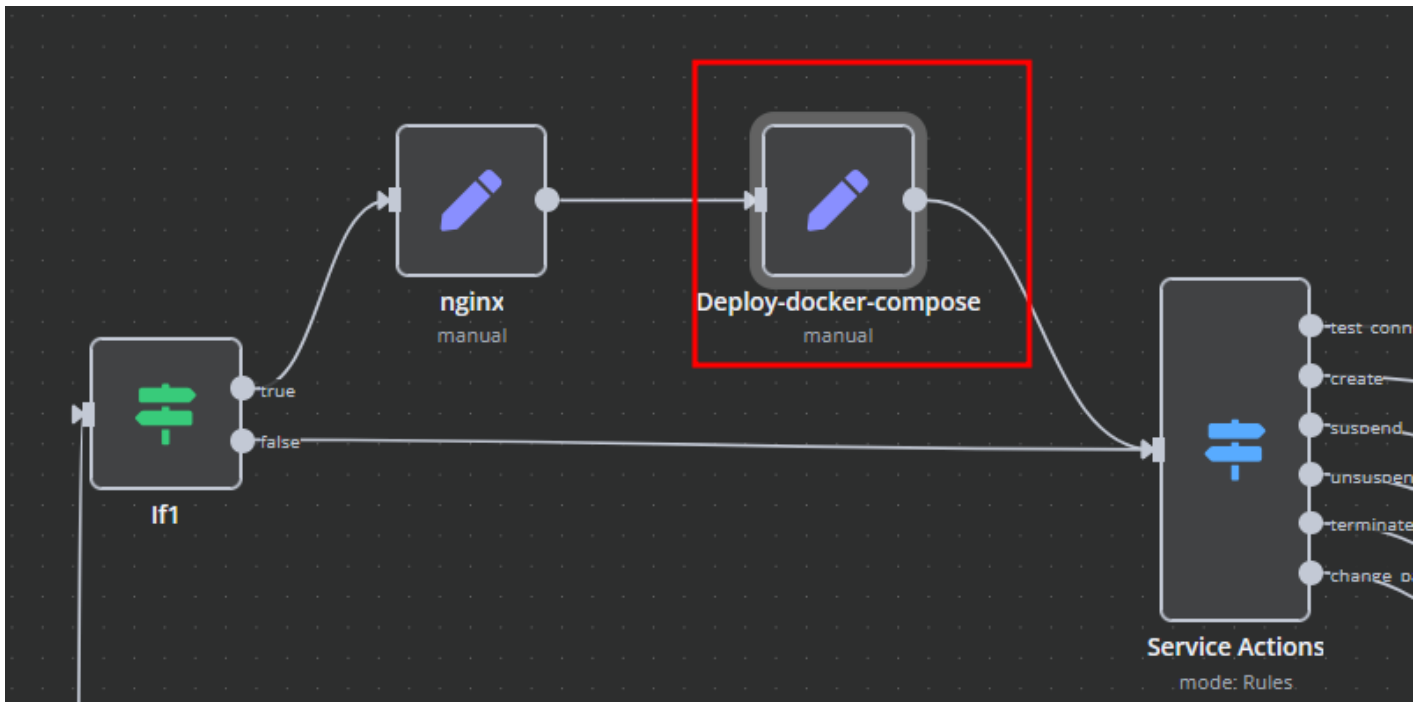
Do not modify the following technical parameters:

- `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](#)

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

services:
  {{ $('API').item.json.body.domain }}:
    container_name: {{ $('API').item.json.body.domain }}
    image: grafana/grafana:latest
    restart: unless-stopped
    volumes:
      - {{ $('Params').item.json.mount_dir }}/{{ $('API').item.json.body.domain }}/data:/var/
lib/grafana
      - {{ $('Params').item.json.mount_dir }}/{{ $('API').item.json.body.domain }}/logs:/var/
log/grafana
      - {{ $('Params').item.json.mount_dir }}/{{ $('API').item.json.body.domain }}/
provisioning:/etc/grafana/provisioning
    environment:
      - LETSENCRYPT_HOST={{ $('API').item.json.body.domain }}
      - VIRTUAL_HOST={{ $('API').item.json.body.domain }}
      - GF_SECURITY_ADMIN_USER={{ $('API').item.json.body.username }}
      - GF_SECURITY_ADMIN_PASSWORD={{ $('API').item.json.body.password }}
      - GF_PATHS_CONFIG=/etc/grafana/grafana.ini
    healthcheck:
      disable: false
    networks:
      - nginx-proxy_web
    mem_limit: "{{ $('API').item.json.body.ram }}"G
    cpus: "{{ $('API').item.json.body.cpu }}"

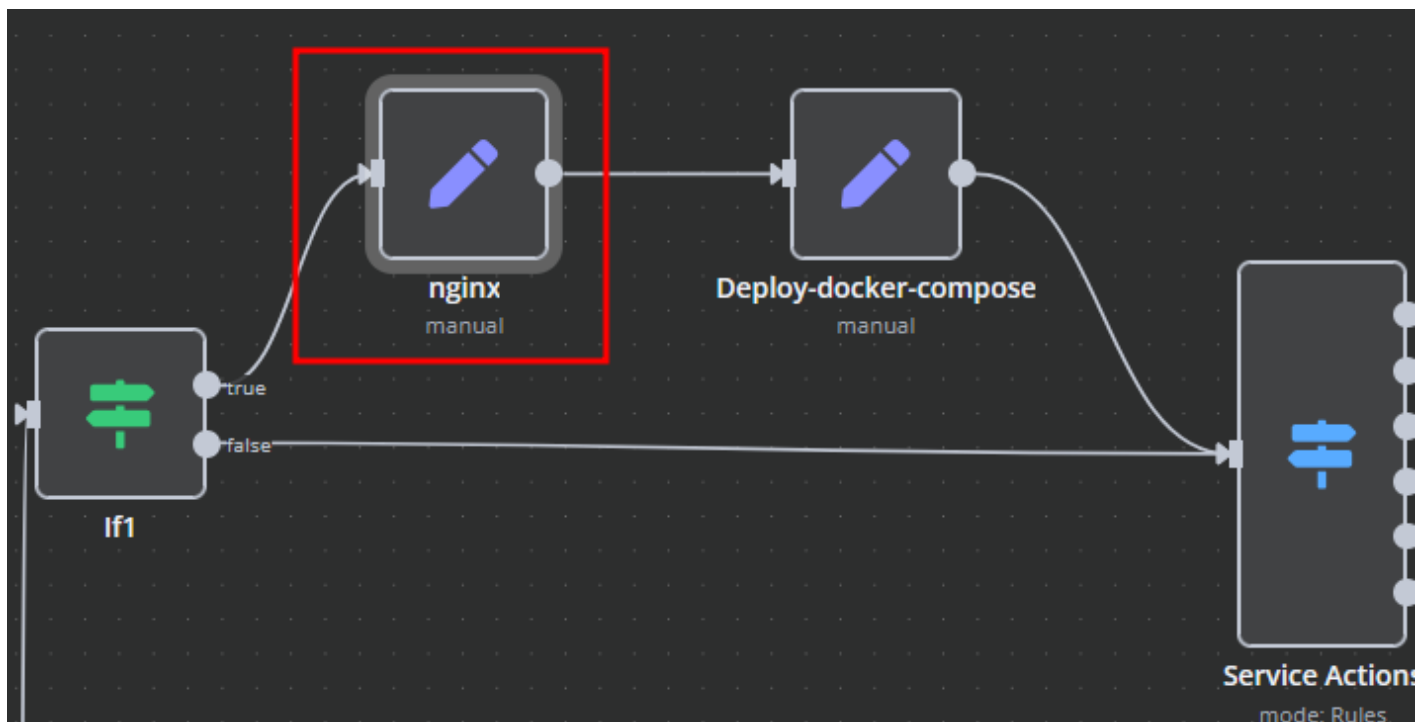
networks:
  nginx-proxy_web:
    external: true
```

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 Test step

Parameters Settings 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

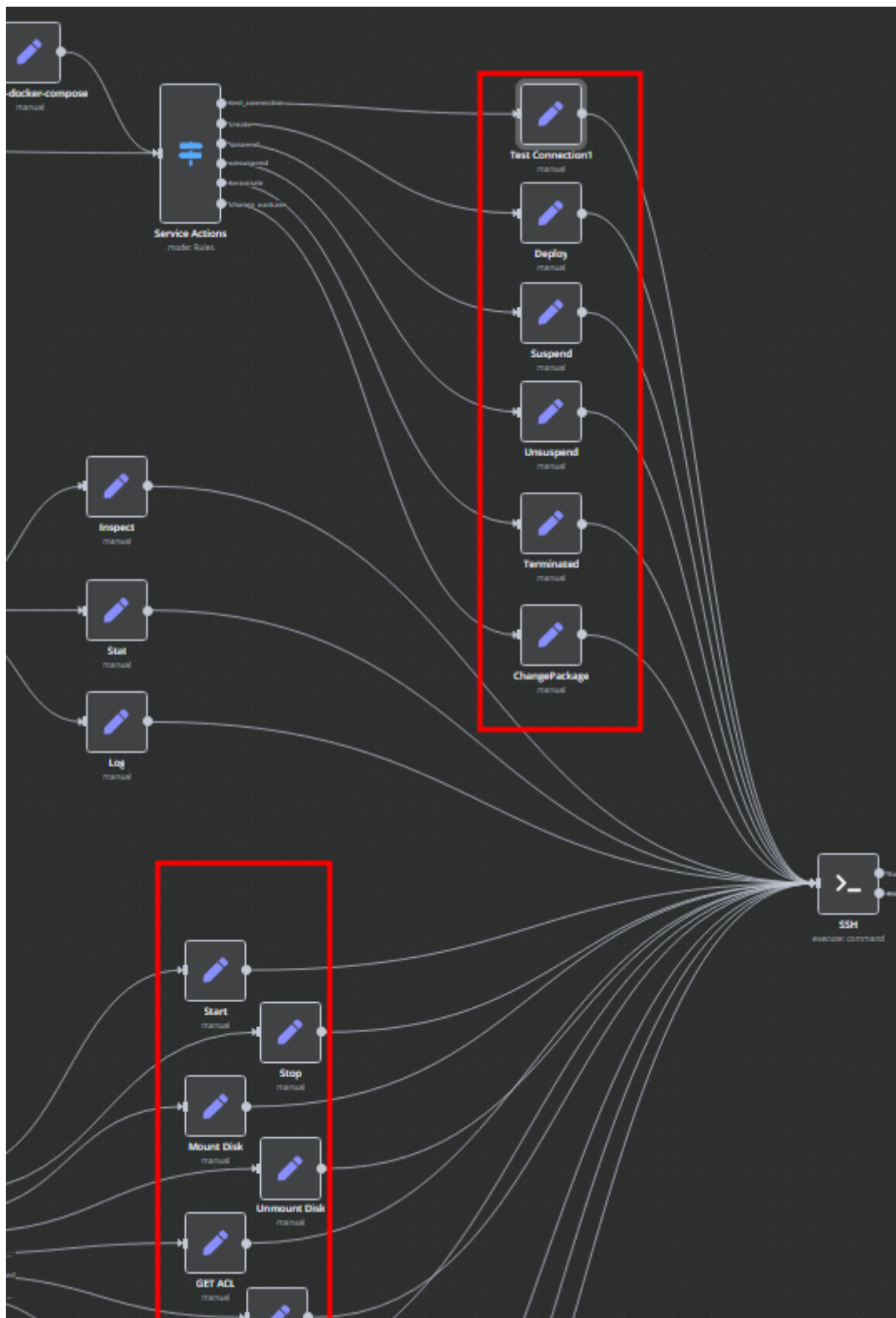
No properties

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.



Revision #3

Created 23 March 2025 20:30:51 by Ruslan

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