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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

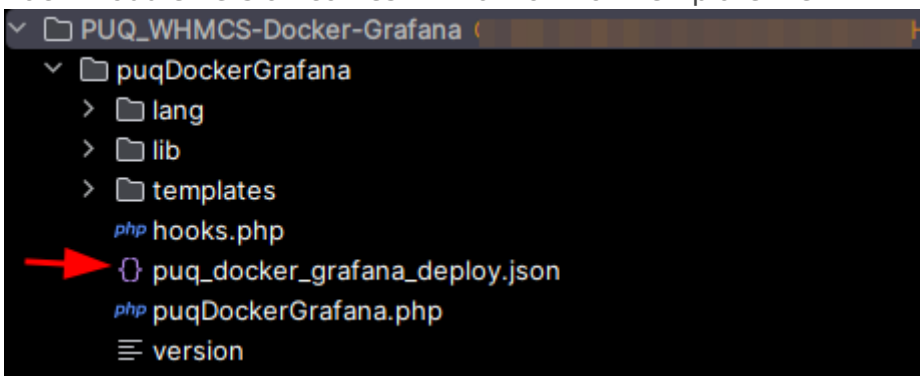
You have two options:

Option 1: Use the Latest Version from the n8n Marketplace

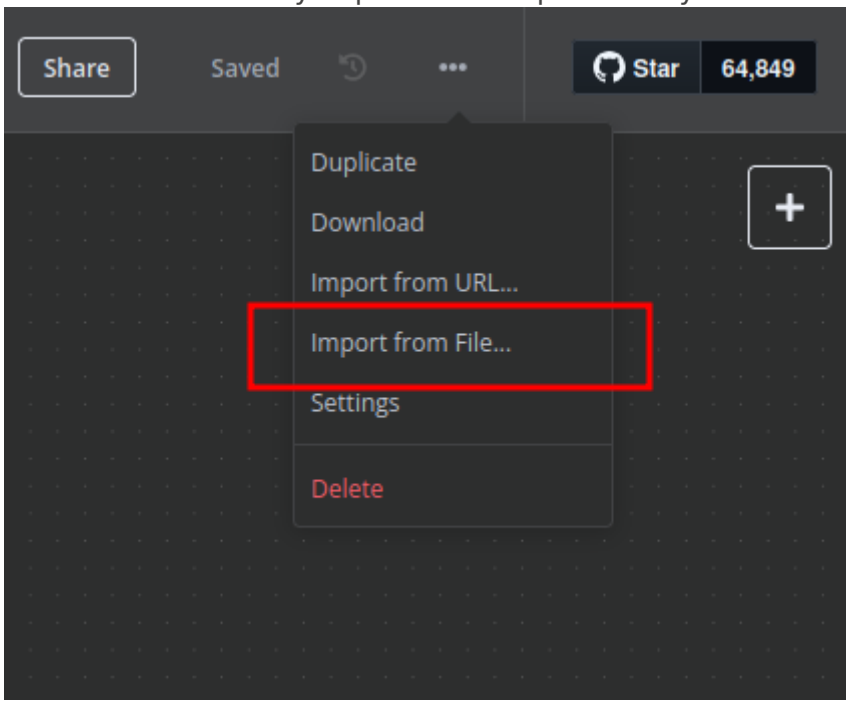
- The latest workflow templates for our modules are available on the official n8n marketplace.
- Visit our profile to access all available templates: PUQcloud on n8n

Option 2: Manual Installation

- Each module version comes with a workflow template file.



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

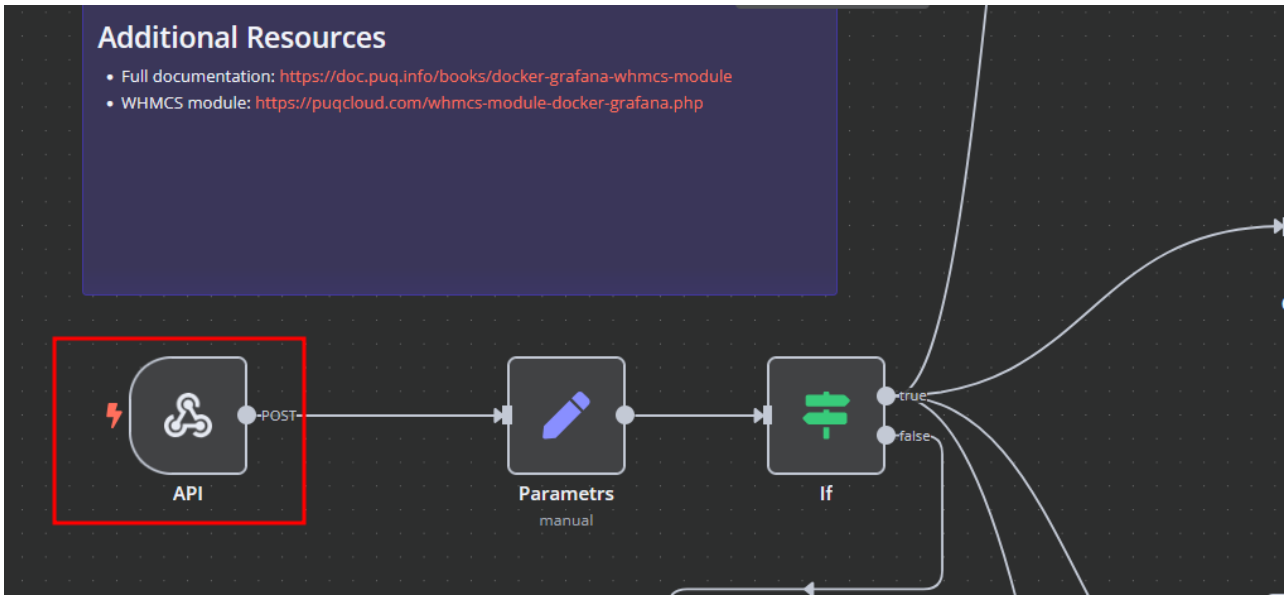


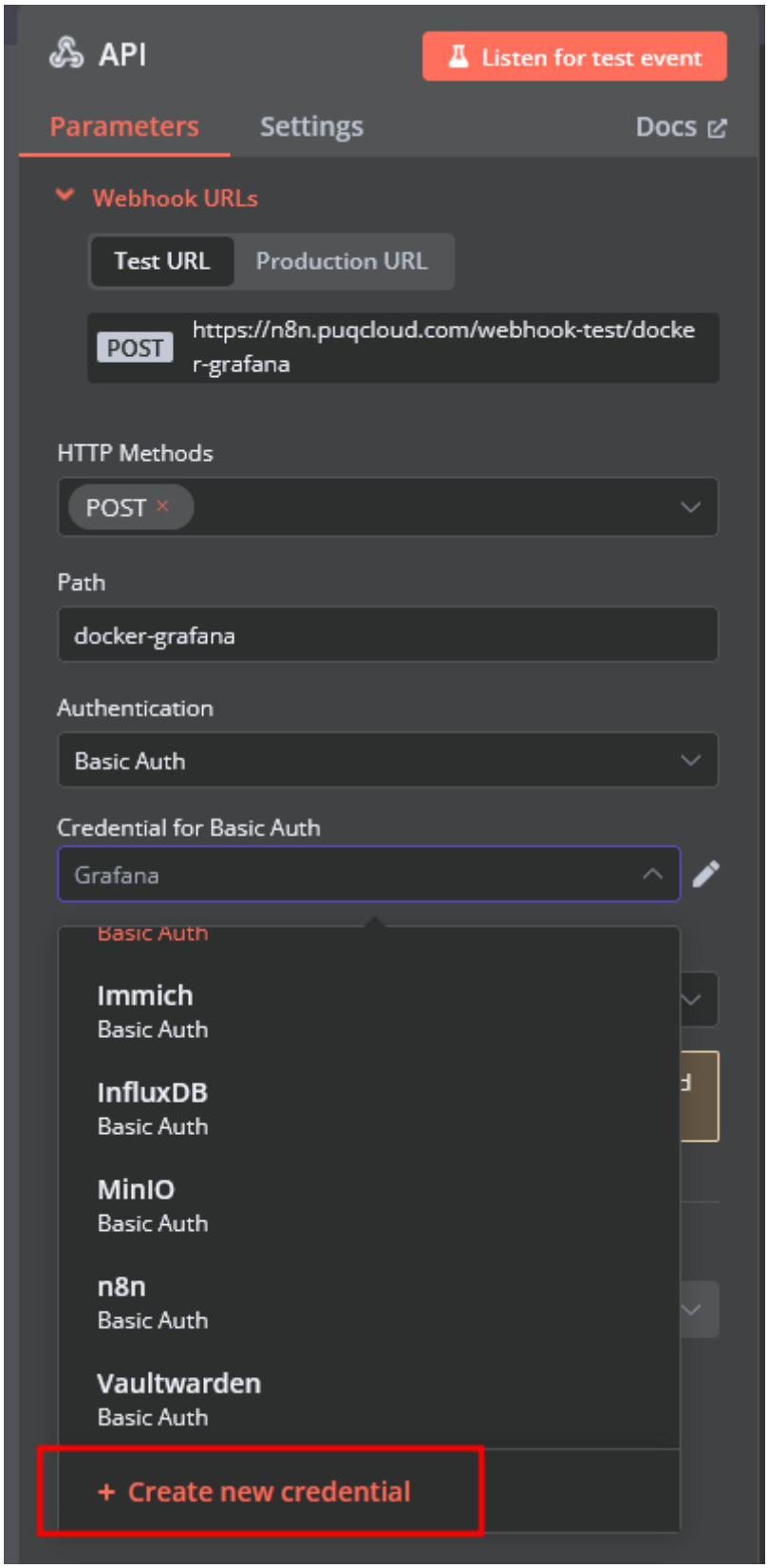
n8n Workflow API Backend Setup for WHMCS/WISECP

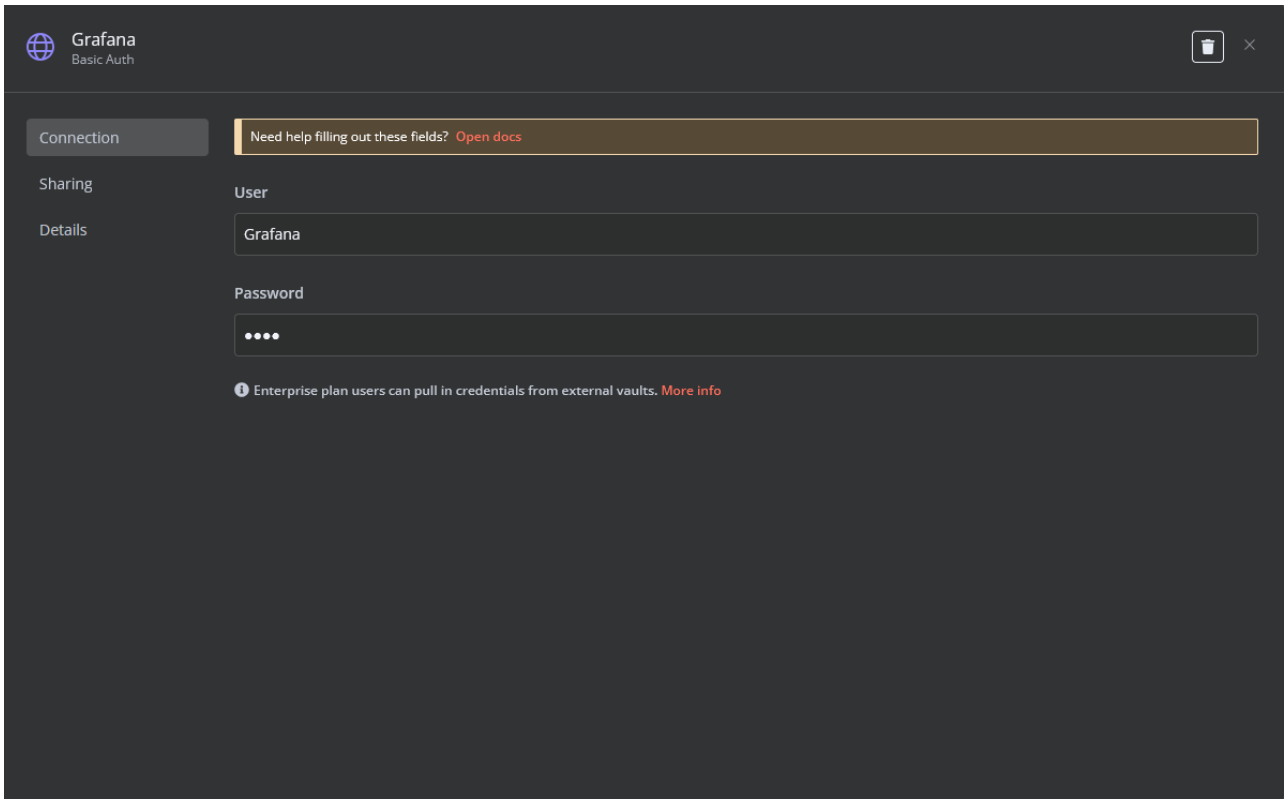
Configure API Webhook and SSH Access

- Create a **Basic Auth Credential**

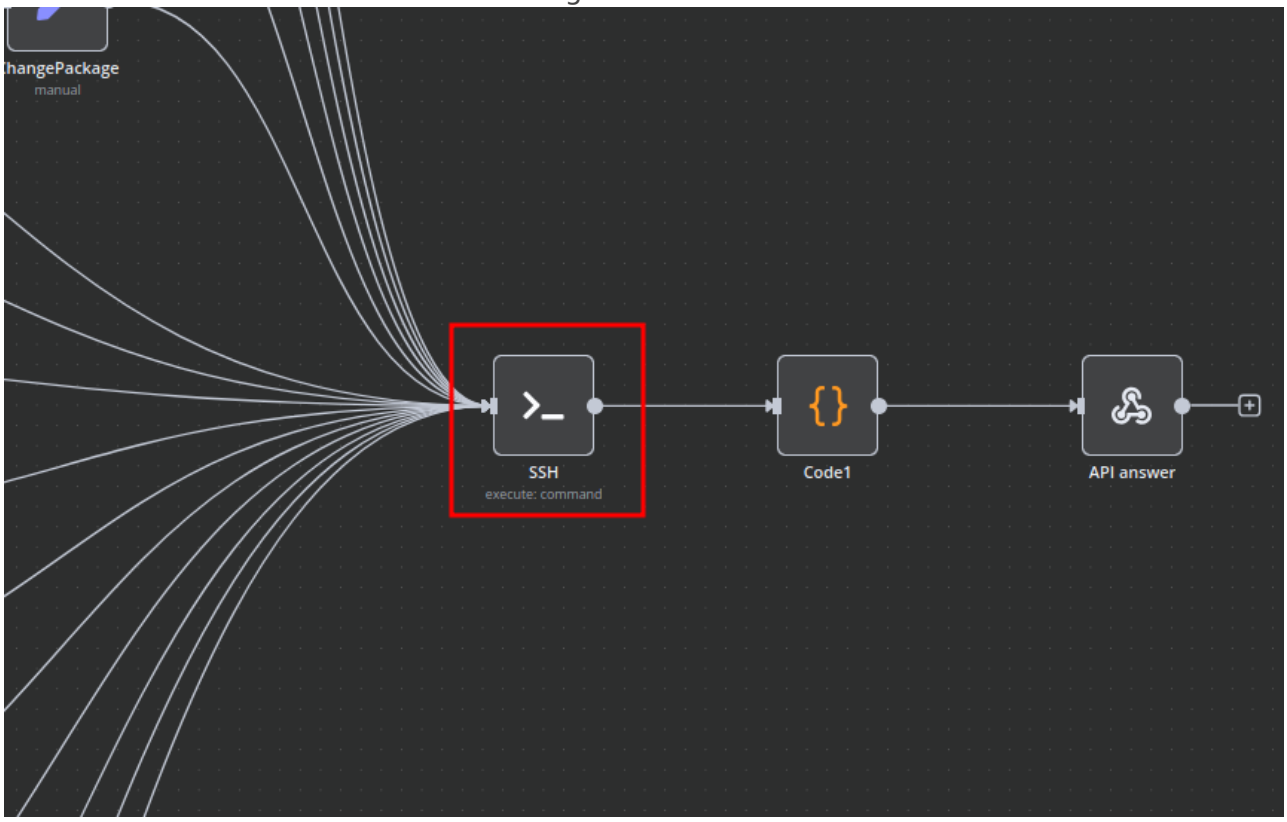
for the Webhook API Block in n8n.

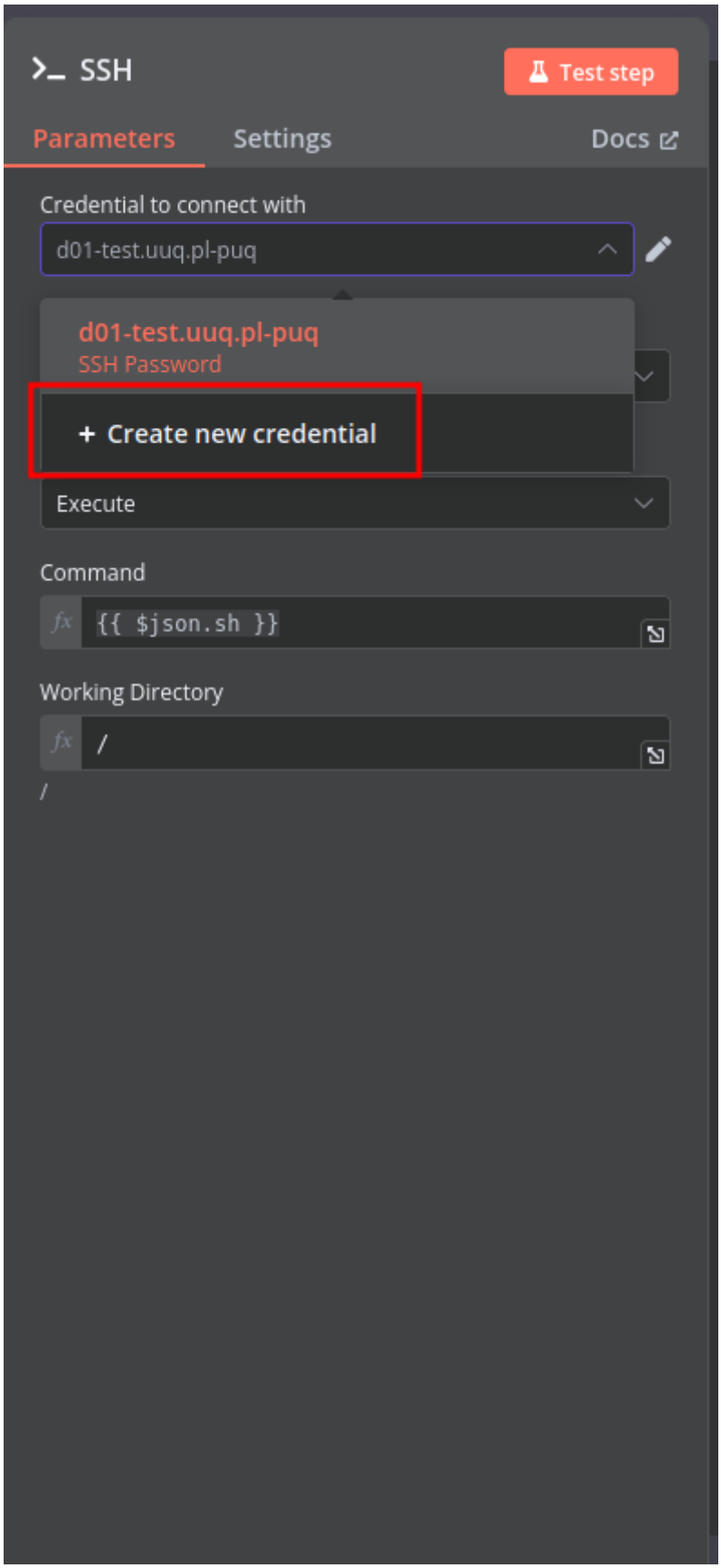


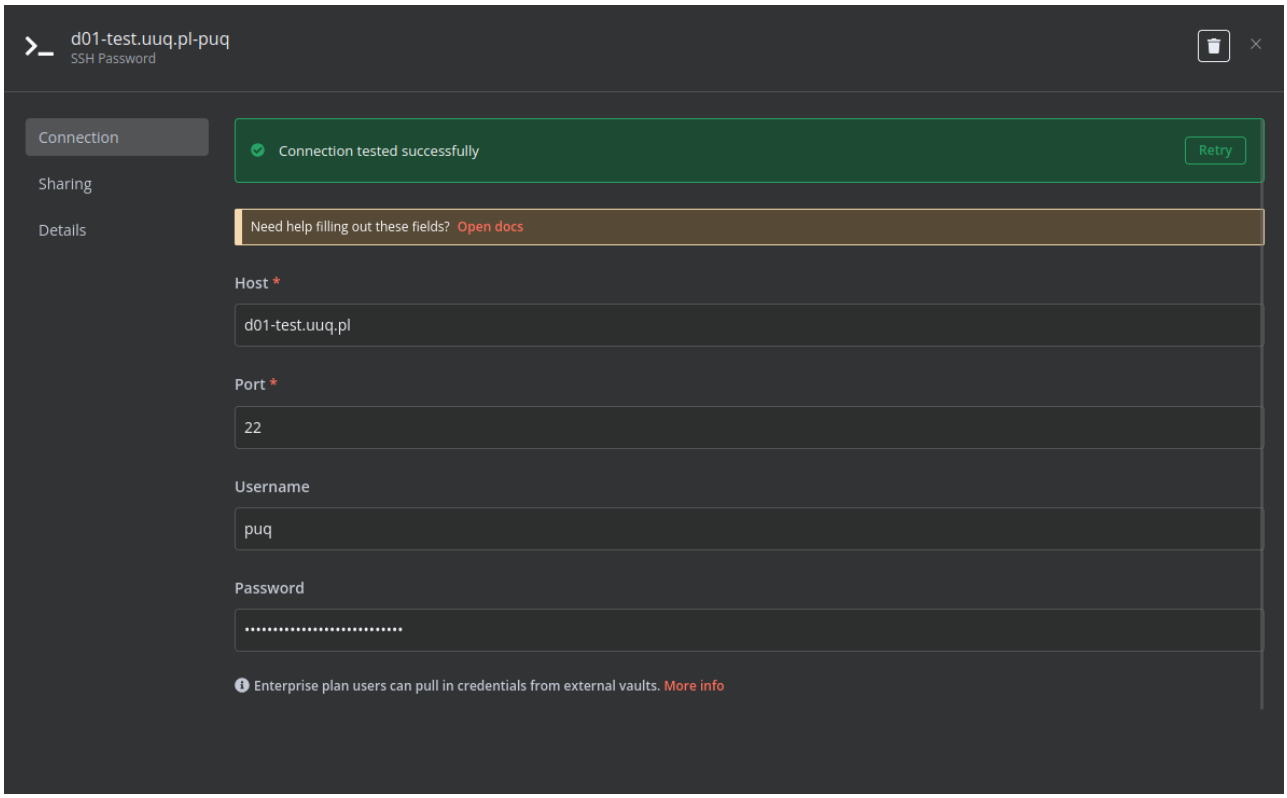

API
Listen for test event
Parameters
Settings
Docs
Webhook URLs
Test URL
Production URL
POST
https://n8n.puqcloud.com/webhook-test/docke
r-grafana
HTTP Methods
POST
Path
docker-grafana
Authentication
Basic Auth
Credential for Basic Auth
Grafana
Basic Auth
Immich
Basic Auth
InfluxDB
Basic Auth
MinIO
Basic Auth
n8n
Basic Auth
Vaultwarden
Basic Auth
+ Create new credential



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

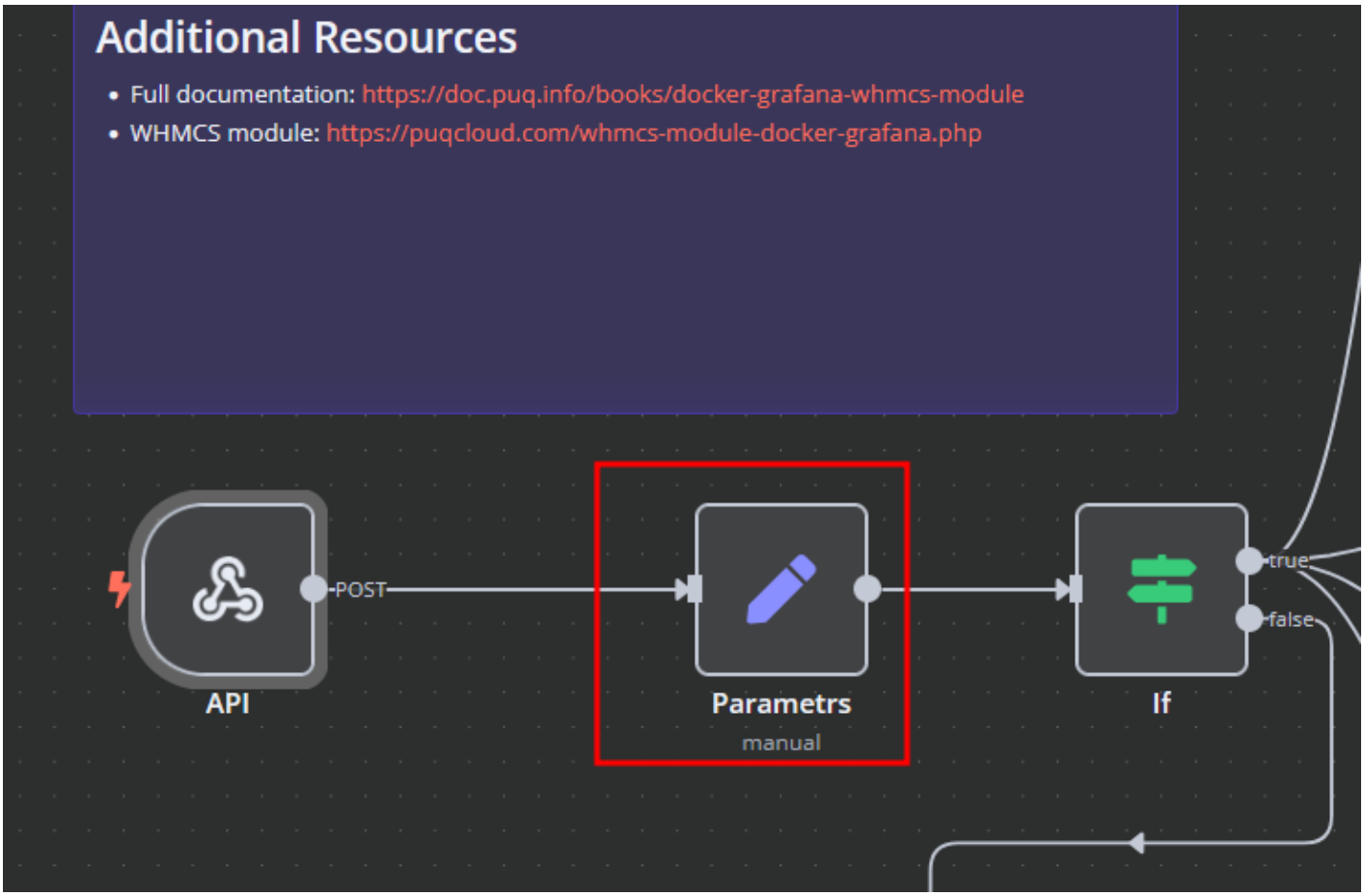


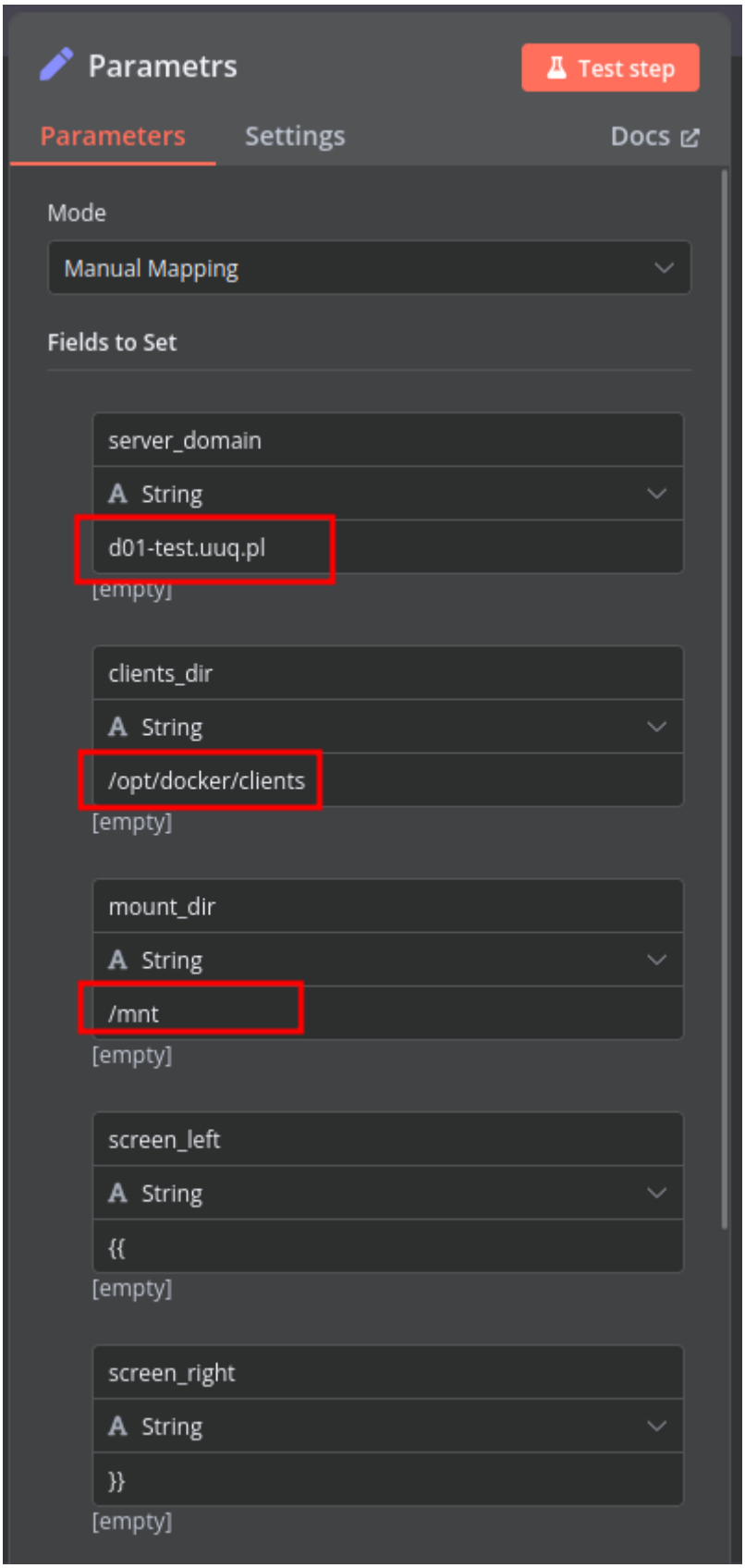

SSH
Test step
Parameters
Settings
Docs
Credential to connect with
d01-test.uuq.pl-puq
d01-test.uuq.pl-puq
SSH Password
+ Create new credential
Execute
Command
{{ $json.sh }}
Working Directory
/
/



Modify Template Parameters

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


Additional Resources
• Full documentation: https://doc.puq.info/books/docker-grafana-whmcs-module
• WHMCS module: https://puqcloud.com/whmcs-module-docker-grafana.php
POST
API
Parametrs
manual
If
true
false



- `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).

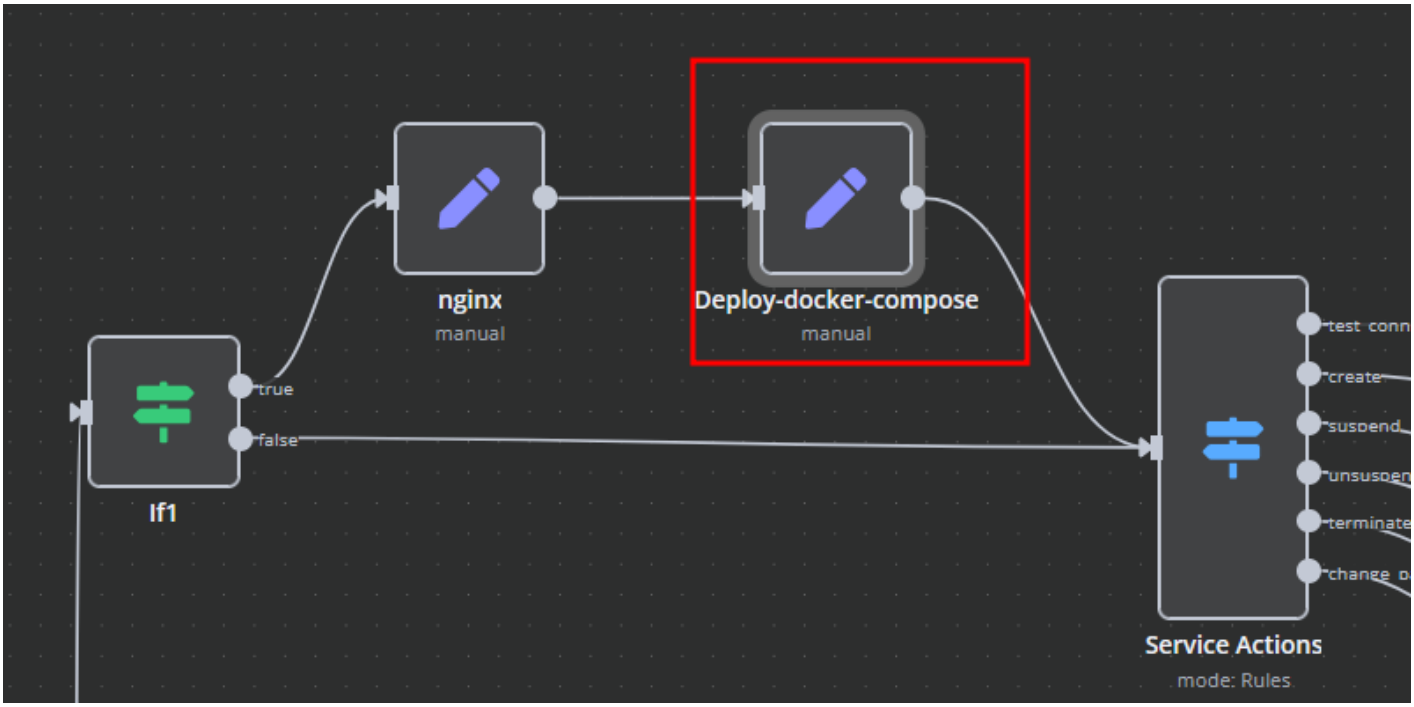
Do not modify the following technical parameters:

- `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

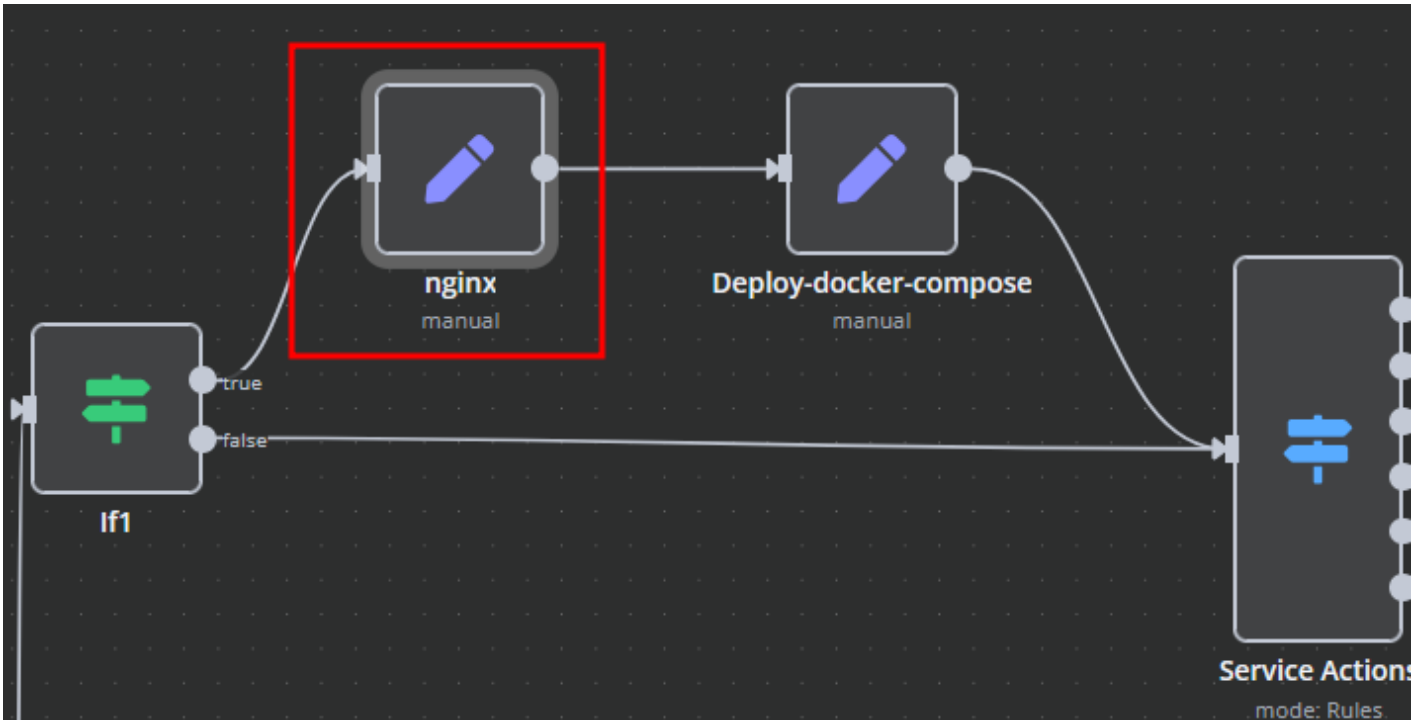
```
name: "{{ $('API').item.json.body.domain }}"

services:
  {{ $('API').item.json.body.domain }}:
    container_name: {{ $('API').item.json.body.domain }}
    image: grafana/grafana:latest
    restart: unless-stopped
    volumes:
      - {{ $('Parametrs').item.json.mount_dir }}/{{ $('API').item.json.body.domain }}/data:/var/
lib/grafana
      - {{ $('Parametrs').item.json.mount_dir }}/{{ $('API').item.json.body.domain }}/logs:/var/
log/grafana
      - {{ $('Parametrs').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
```

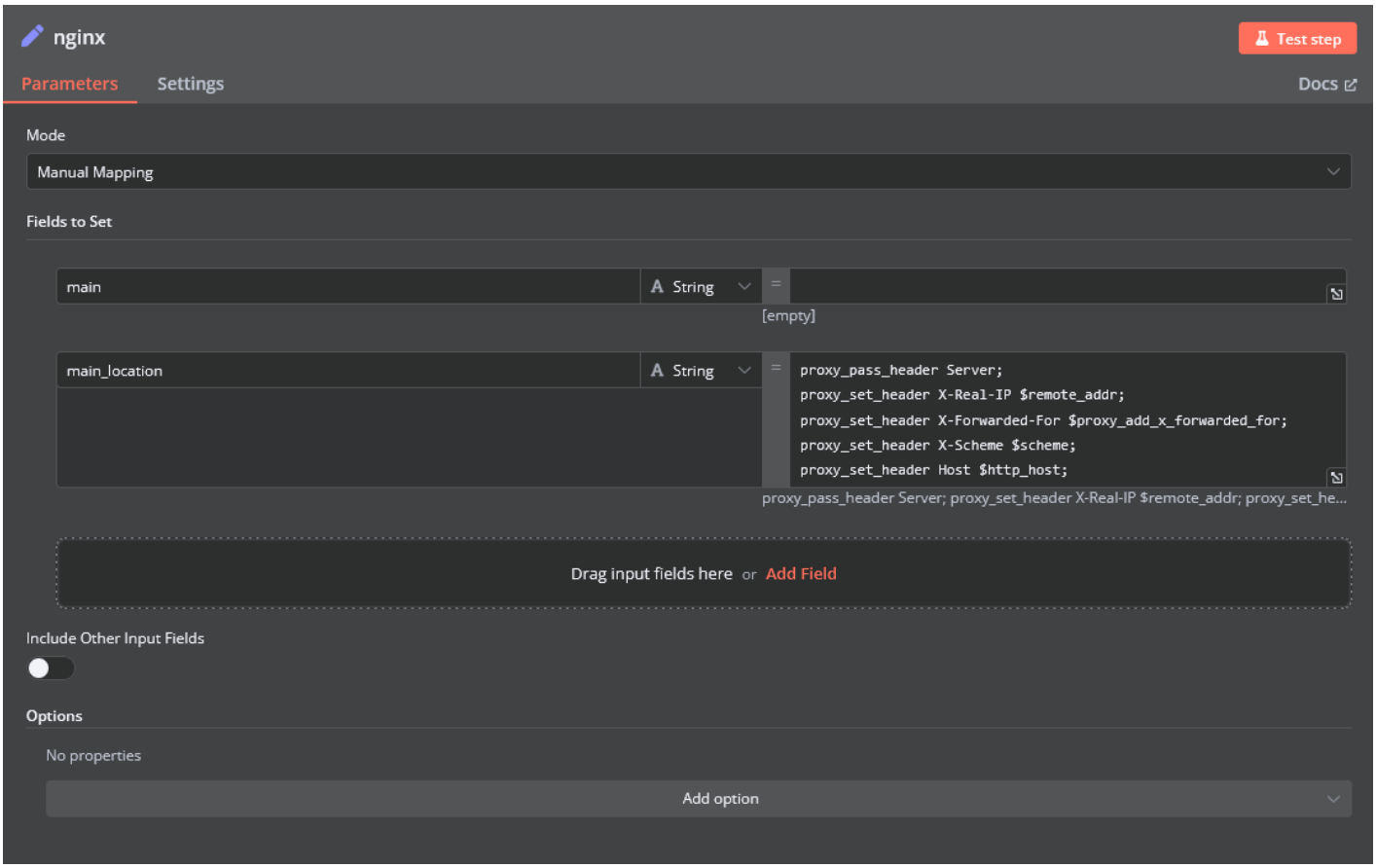
nginx

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.

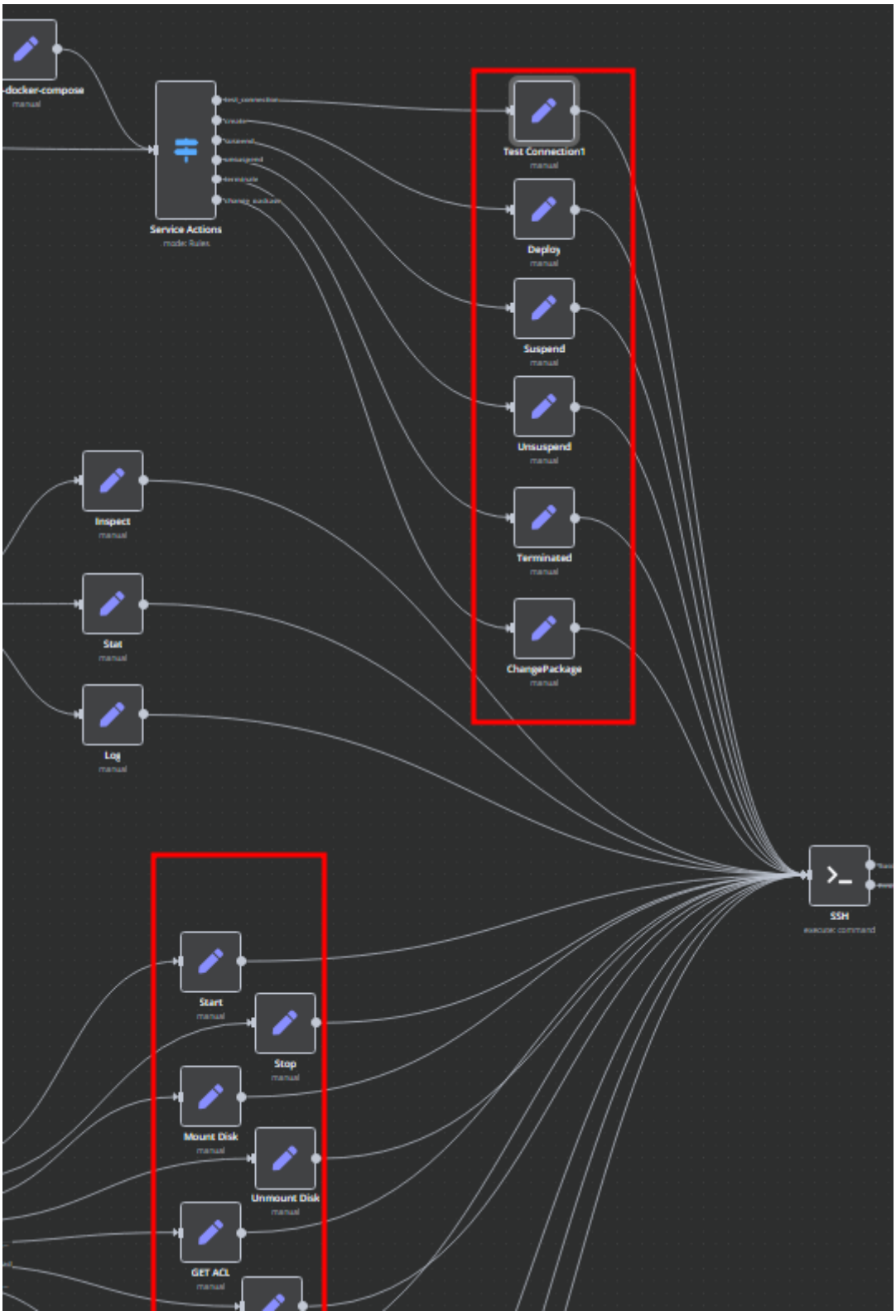




Bash Scripts

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.



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