Basic concepts and requirements

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

The system consists of three core components:

□□ WHMCS Module

The **core component**, installed in WHMCS, handles service provisioning and automation directly within WHMCS, providing an intuitive interface for managing NextCloud instances.

□□ Debian 12 Server

A dedicated server running **Debian 12**, equipped with:
□**Docker** – For efficient container management

Detailed instructions for installing and configuring Docker are available here:

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

□□ n8n Server

This component bridges communication between the WHMCS module and the Docker server, ensuring seamless workflow automation and efficient service provisioning.

To learn more about n8n’s powerful capabilities, visit the **official n8n website** for extensive documentation, tutorials, and community support.

Key Features & Concepts

⚙ Workflow Automation

Using n8n’s **visual workflow builder**, automate numerous critical tasks, such as:
✔ **Automated provisioning of NextCloud and NextCloud Office**
✔ **Sending notifications to users and administrators**
✔ **Configuring firewall and security settings**
✔ **Managing DNS and domain configurations**
✔ **Custom automations** tailored specifically to your business needs

□□ Flexibility & Customization

The NextCloud module offers extensive **personalization** and **elastic automation**, empowering you to fully customize n8n workflows and seamlessly integrate NextCloud into your existing infrastructure.

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