

Client Container Concept and Structure

Container Deployment

In our deployment scenarios, we use **Docker Compose** for managing client containers.

Important Directories

The **nginx-proxy** directory must remain unchanged. Its path is:

`/opt/docker/nginx-proxy`

This directory contains essential components:

- `docker-compose.yml` – Docker Compose configuration
- `certs/` – SSL certificates for domains
- `nginx/` – Nginx configuration files mounted into the container
- `html/` – Web root directory
- `vhost.d/` – Virtual host configurations

List of required directories:

```
/opt/docker/nginx-proxy  
/opt/docker/nginx-proxy/certs  
/opt/docker/nginx-proxy/nginx  
/opt/docker/nginx-proxy/html  
/opt/docker/nginx-proxy/vhost.d
```

Client Container Data Directories

Each client container has its own data directory. The base path for storing user-related Docker files and disk images can be set individually for each **n8n workflow** involved in service management.

- The **clients_dir** option defines the storage directory for user data.
- Default path: `/opt/docker/clients`

Parametrs Test step

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]	

Within this directory, subdirectories are created based on the **primary domain name** of the service. The domain acts as a reference point for the entire service.

Each service directory contains:

```
root@d01-test:/opt/docker/clients/1-5335.d01-test.uuq.pl#  
root@d01-test:/opt/docker/clients/1-5335.d01-test.uuq.pl# ls -la  
total 1009968  
drwxrwxrwx 3 root root 4096 Mar 12 21:21 .  
drwxr-xr-x 6 root root 4096 Mar 13 15:25 ..  
-rwxrwxrwx 1 root root 1073741824 Mar 13 15:52 data.img  
-rwxrwxrwx 1 root root 808 Mar 12 23:37 docker-compose.yml  
-rwxrwxrwx 1 puq puq 80 Mar 12 23:37 error.log  
-rwxrwxrwx 1 root root 9 Mar 13 12:55 net_in  
-rwxrwxrwx 1 root root 8 Mar 13 12:55 net_out  
drwxrwxrwx 2 root root 4096 Mar 11 20:43 nginx  
-rwxrwxrwx 1 root root 7 Mar 12 23:37 status  
root@d01-test:/opt/docker/clients/1-5335.d01-test.uuq.pl#
```

- `docker-compose.yml` – Service-specific Docker Compose configuration
- `status` – A file storing the container status, which reflects the billing system state (e.g., **active**, **suspended**, etc.)
- `nginx/` – Nginx proxy configuration for the domain and container
- `data.img` – Disk image for container data

Before a container starts, the `data.img` file is **mounted into the system** using n8n automation.

The necessary entries are added to `/etc/fstab`, ensuring that containers automatically restart after a server reboot.

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