

Nextcloud

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High-Performance Nextcloud & MariaDB Deployment (CasaOS)

Status: Verified Deployment

Environment: Ubuntu (CasaOS) | Synology DS1522+ Backend

Core Architecture: Dedicated Mini PC for compute; "GoonersNAS" for muscle storage.

1. Preparation: The Network Bridge

To allow Nextcloud and MariaDB to communicate securely without using public IP addresses, they must reside on the same Docker network.

- **Network Name:** `big-bear-nextcloud-ls`
- **Note:** Ensure both containers are assigned to this network in their respective CasaOS settings to enable internal DNS resolution.

2. Database Setup (MariaDB)

We use the LinuxServer image for consistency and PUID/PGID support, which is vital for permission management.

| Category | Setting / Value |
|----------|---|
| Image | <code>linuxserver/mariadb</code> |
| Network | <code>big-bear-nextcloud-ls</code> |
| Port | Host 3306 -> Container 3306 |
| Volume | <code>/DATA/AppData/mariadb/config</code> -> <code>/config</code> |

Environment Variables:

```
MYSQL_ROOT_PASSWORD = [YourSecretRootPassword]
MYSQL_DATABASE = nextcloud
MYSQL_USER = nc_user
MYSQL_PASSWORD = [YourSecretUserPassword]
PUID = 1000
PGID = 1000
TZ = America/Chicago
```

3. Application Setup (Nextcloud LS)

The **Nextcloud LS** (LinuxServer.io) version is preferred for its robust handling of PUID/PGID variables when mapping to NAS-based storage.

| Category | Setting / Value |
|----------------|---|
| Image | <code>linuxserver/nextcloud</code> |
| Port | Host 10443 -> Container 443 |
| Web UI | HTTPS (Required for Authentik) |
| Volume 1 | <code>/DATA/AppData/nextcloud/config</code> -> <code>/config</code> |
| Volume 2 (NAS) | <code>/mnt/synology/nextcloud_data</code> -> <code>/data</code> |

4. Initial Configuration (The Setup Screen)

Navigate to `https://nc.goonersnas.com` to complete the wizard.

- **Admin Account:** Create a master local admin.
 - **Storage & Database:** Select **MySQL/MariaDB**.
 - **Database User:** `nc_user`
 - **Database Host:** `mariadb:3306`
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5. Troubleshooting & Critical Fixes

“ **The "Access Denied" Loop:** If the installer rejects your credentials, MariaDB likely initialized with old variables.

Fix: Stop MariaDB, delete all contents of `/DATA/AppData/mariadb/config`, and restart. It will re-generate the database with the correct PUID/PGID and credentials.

“ **The "App Unavailable" Error:** This is a protocol mismatch in CasaOS.

Fix: Manually use `https://` in the browser and update the App Settings to use the HTTPS dropdown.

6. Post-Install Checklist

- [] Enable **External Storage Support** for Synology integration.
- [] Install **Social Login** for Authentik OIDC.
- [] Download **ONLYOFFICE Desktop Editors** for native local editing.

Installing ONLYOFFICE on Nextcloud (CasaOS/Ubuntu)

Overview

This guide covers deploying **ONLYOFFICE Document Server** as a backend engine via CasaOS and integrating it with **Nextcloud**. This setup provides a high-performance office suite capable of handling Microsoft Office formats (`.docx`, `.xlsx`, `.pptx`) directly within the browser.

Prerequisites

- **Nextcloud** running on Ubuntu (via Docker/CasaOS).
- **Reverse Proxy** already configured for your main domain (`nc.goonersnas.com`).
- A dedicated subdomain (e.g., `office.goonersnas.com`) with an SSL certificate.

Step 1: Deploy ONLYOFFICE Document Server (Backend)

We use a separate Docker container for the rendering engine to ensure stability and performance.

1. Open **CasaOS** and click the **+** icon to **install a customized app**.
2. Click **Import** in the top right and paste the following Docker Compose snippet:

```
name: onlyoffice
services:
  onlyoffice:
    image: onlyoffice/documentserver:latest
    container_name: onlyoffice-docs
    environment:
      - JWT_ENABLED=true
      - JWT_SECRET=SecretGoonersKey123
    ports:
      - "8888:80"
    restart: unless-stopped
```

3. **Submit** and **Install**.
4. *Optional:* Change the **Network** setting in CasaOS to match your Nextcloud bridge (e.g., `big-bear-nextcloud-ls`).

Step 2: Reverse Proxy Configuration (Crucial)

To avoid the **Mixed Active Content** error, ONLYOFFICE must be served over HTTPS.

- Point your subdomain (e.g., `office.goonersnas.com`) to your server IP.
 - In your Reverse Proxy manager, create a new host:
 - **Domain:** `office.goonersnas.com`
 - **Forward IP:** `192.168.0.152`
 - **Forward Port:** `8888`
 - Enable **SSL** and force SSL.
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Step 3: Integration in Nextcloud

1. **Install the App:** Go to **Apps > Office & text**. Find **ONLYOFFICE**, click **Download**, and **enable**.
 2. **Configure Settings:**
 - Go to **Administration settings > ONLYOFFICE**.
 - **Document Editing Service address:** `https://office.goonersnas.com/`
 - **Secret key:** `SecretGoonersKey123`
 - Click **Save**.
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IMPORTANT: If you see a red error banner stating "Mixed Active Content is not allowed," it means your Nextcloud (`https`) is trying to talk to an insecure ONLYOFFICE address (`http`). **Always** use the secure public subdomain URL in the Nextcloud settings to resolve this.

Verification

To verify the installation, navigate to your **Files** app and create a new **Document**. If the editor loads the Word-style interface, the integration is successful.